

APRIL 1958 50c

FINEST IN THE FIREARMS FIELD



# Guns

HUNTING • SHOOTING • ADVENTURE

**GUNS MAGAZINE**  
**3rd ANNUAL POLICE**  
**AWARD**

**GETTING  
SET FOR  
SAFARI**  
—KEITH

**SHOTGUNS:  
THE SIDE-BY-SIDES**

**IS THIS THE  
FASTEST GUN?**









# GUNS in the NEWS

[Special]—

◆ Mathis, Tex. When a four-foot diamond-back rattlesnake showed up in his path, Bill Moore took dead aim at it with his gun and killed it. Bill is all of six years old. Less than four feet himself, the boy has been toting a gun, under the supervision of his dad, since he was three.

★ ★ ★

◆ Philadelphia, Pa. There's a somewhat ironical twist in the starting of a new industry for inmates of the prison here. They're going to manufacture slugs for policemen's cartridges.

★ ★ ★

◆ China, Me. While her husband was out on a futile hunt for deer, Mrs. Thelma MacDonald garnered the venison at home. She shot a buck that had wandered into her back yard.

★ ★ ★

◆ Denver, Colo. A burglar phoned police to report that he had just broken into a grocery, explaining that Store Owner Raquel Cordova, 62, had dropped in, happened to have a gun and suggested he make the call.

★ ★ ★

◆ Melbourne, Australia. Roy Dowsett has four eyes going for him when he goes hunting. His pet crow goes along and perches on the barrel of his rifle as "a sort of forward observer" while Mr. Dowsett takes aim.

★ ★ ★

◆ New York City. A masher made a big mistake when he approached Dorothy Uhnak in a subway station. Although only five feet, four inches tall, Miss Uhnak is a police-woman and told him he was under arrest. When he refused to go to police headquarters with her, she knocked out the husky 6-footer with the butt of her gun. Shortly thereafter he was facing the judge.

★ ★ ★

◆ Milwaukee, Wis. When a stranger drove out of his gasoline station without paying for a tankful of fuel and three quarts of oil, Clifford P. St. John went into action. He got into his car and chased the customer 100 miles, then crowded him to the side of the road and held him at gun-point until a police car came along.

★ ★ ★

◆ Steamboat Springs, Colo. Leo Roybol wouldn't want it any closer. While out hunting, a black bear charged at him and bowled him over. Luckily, a companion of Mr. Roybol kept his nerve, took careful aim and fired. The bear toppled over dead.

★ ★ ★

◆ Birmingham, England. Two-legged wolves on the dark streets are really catching it these days from pistol-packing females. Tired of being accosted by ardent males, the girls here have begun using water pistols to chase them. The pistols are loaded with a harmless but evil-smelling disinfectant.

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**JAMES E. SERVEN**  
*Arms Collector and Historian*

One of my most intrepid friends was a U.S. Marshal in West Texas. In his younger days he had been a Texas Ranger, and always carried a Colt .45 single action revolver when serious trouble loomed. This choice of a weapon impressed me deeply, for this man had faced death many times. Later I obtained such a gun from the eminent arms collector, Maj. Wm. B. Renwick, and another valued friend, Paul Showalter, engraved the revolver and applied a fine silver overlay. I treasure this weapon because of these associations, and because of its dependable performance, natural balance, and beautiful workmanship.

## MY FAVORITE GUN

**COL. GEORGE B. JARRETT**  
*Chief, Foreign Materiel Branch, APG*

**A**LTHOUGH the picture shows me with an Italian Villar-Perosa sub-machine gun, my favorite is a weapon which I no longer have, though I carried it a long time. It was a Colt .45 automatic, the old Model 1911. When selling out my collection of war relics, I eventually sold it, too. I found this pistol in 1922 hanging from a hook in a dugout once used by Americans, near Chateau Thierry. Why it was still there puzzled me, but I always thought that since it was relatively soon after World War I for snoopers like myself, it could still have been where left by the last man in the dugout. I took it home and on my first tour of duty here at Aberdeen Proving



Ground—which was July, 1927 as a new lieutenant—I brought along this rusted wreck. I had cleaned it enough to make it move, and shot it a few times though bore was badly rusted. Here at Aberdeen we fixed it up with new parts to make it at least shootable. Then I was faced with my first instruction in pistol shooting, and went to it with a will, drawing a pistol from the ordnance company with which it seemed I couldn't shoot. Then I asked permission to try this wreck of mine—did it mainly because I was by then "attached" to the wreck. I promptly shot fairly well, and eventually got a Marksmanship badge before I went home. Ever after that I could shoot a .45. I didn't carry it in WWII—reason, went out to Egypt sans guns, since we left prior to Dec. '41 and were actually "tourists" to the British forces well; I mean, no match stuff at all, but jumping tin cans at 20 paces sure, anytime, in Africa. So out there I used a captured Luger, which I could handle fairly well. Brought Luger home; in fact, wore it home, flying from Cairo to Washington, D. C.



# TRIGGER TALK

PONTIACS AND PISTOLS mingle in this issue, in the story behind our story, "He Backs His Claims With Bullets." This fast-moving article on gunsmith Joe Bodrie, Michigan boy, son of a cop, who has challenged and beaten at the timer some of the "fastest guns alive," is backed up by one of the most remarkable action photos ever taken. It tells of his career developing into a professional exhibition shooter. But as we go to press comes word that Bodrie has signed with the Pontiac motor car company to tour the country and give exhibitions of gun skill at your local Pontiac dealer's showrooms. As a promotional idea, the tour will reflect great credit on, and arouse enthusiasm, for Pontiac's new automobiles. But it will also keep guns and gun safety before the public. This, then, is the story behind the man who will be at your local Pontiac dealer's display rooms soon.

In "Getting Set for Safari," GUNS has given you an unusual treat—the opportunity to look over Elmer Keith's shoulder as he prepares for his trip to Africa. Keith now reports he got all of the "big five," elephant, lion, rhino, buffalo, and leopard, and we will be bringing you accounts of his experiences with various rifles in the land which is almost as important to the outdoor sportsman now as the American Frontier was a century ago. Going to Africa today is less expensive than going west was in the 1860's to the average emigrant with his teams and wagons bought with gold. Read Keith, then visit Kenya or the Congo big game thrills.

Shotguns score this inning with a double header, Col. Busbey's "I Like the Side-By-Sides," and the featurette, "Gun of the Month." Busbey's zeal in boosting parallel doubles is real, and his writing peppery. In "Gun of the Month" is an unusual Lefevre.

Hunting is well represented with two semi-technical articles, "Shooting on the Run" and "Deer Hunt with Gun Nuts." The first tells how to get set for fast-moving targets, and how to shoot accurately, and effectively. The second jars the reader with its first sentence, then draws him into the story by its interesting appraisal of rifle choice among five Canadian gun bugs who went hunting.

Unusual this month is the page feature for the GUNS Magazine Annual Police Award. Look at page 32, then get your Department to send in its nomination for 1958.

"How Fast Is A Bullet?" is not exactly a how to do it article, but in simple and straightforward language Nils Kvale, mainstem of one of the biggest ammunition factories, tells you how chronograph equipment is used to make ammunition better, more accurate, more constant and reliable.

Next month is a feature we had "cooking," so close to timing it with world events that it scares us. For "Red Guns In the Middle East" tells the full story of Soviet weapons now used by the new nation of Egypt-Syria, and how the arms precede Soviet influence in Middle East politics. Timely, up to the minute, sometimes ahead of world events—you'll find this to be the regular pattern of reading in GUNS.



## THE COVER

This multiple-exposure picture of the Bodrie draw merits study. Note utter simplicity of stance, economy of movement, absence of crouch or other "fooferaw." And when Bodrie draws he makes more than smoke; he makes hits. See him at your local Pontiac showroom.

# Guns

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# HANDLOADING BENCH

By KENT BELLAH

**T**HIS IS a column of handloading tips, so let's get down to brass tacks (or cases.) Proper case lubrication for resizing is a "must." Most commercial case and die lubricants are good, but household oils are not—drugstore lanolin is about as good as any. Very little is necessary, but that little is very necessary. I like to dab some on my left finger and thumb, rub almost dry, then handle each case before putting it in the shell holder. An excess of grease causes dents in the case shoulder, which makes your ammo look sloppy. An unusual new dry lubricant I'm trying out is "Motor Mica," an anti-friction powder put out by Scientific Lubricants Co., Chicago 13, Illinois.

Unlubricated, a case may seize in the die. Then the head may pull off or the case pull apart leaving the front end in the die and causing no end of trouble. Worse, the shoulder of rimless cases may stretch slightly, unnoticed, or be shoved back a trifle more than it should be. Headspace is altered using this wrong-dimension ammo, and the situation could be dangerous. However, no lubrication is needed using tungsten carbide dies for straight-wall pistol cartridges. They give cases a beautiful, burnished finish, and last generations.

The small steel handles which are supplied with some loading tools can tire the hand for long runs of heavy sizing, so slip a length of garden hose over the handle. Lubricate the hose, so it will push on easier, by running a cleaning patch saturated with glycerin through it. This makes heavy sizing easy and dresses up the press. Refine it still more by slipping a bicycle handle grip over the hose. Several makes of tools such as Pacific, C-H Standard, Echo, and others take standard  $\frac{5}{8}$ " garden hose.

Powder will discolor the plastic hopper if left overnight in a measure. To protect the hopper, find a piece of clear sheet plastic, or ask your photo studio for a blank 5 x 7" film. Trim it to size, roll it up and insert in the hopper as a protective liner. It can be replaced in a year or two when it gets stained, and your hopper stays clear as new.

A drop of nail polish or paint will identify dies quickly at sight. Use one spot for the sizer and two spots for the seater, and different colors for different calibers.

A short length of bar magnet attached to a shelf edge makes a dandy holder for Allen wrenches, small tools, used at the loading bench. Use magnet to sort brass and steel service cases.

Scales maintain zero better if kept in one spot. One reloader uses thin strips of  $\frac{1}{4}$ " lumber tacked on either side of the scales to keep it from moving. A permanent set-up uses a  $\frac{1}{4}$ " bolt through a hole in the center of the scale bed and a shelf. Be sure the scales are bolted tightly to the shelf. This would strain the bed and cause incorrect reading. Always check the zero before setting scales for a charge.

Fully 99% of inaccurate powder weights are caused by incorrect scale settings. Anyone can easily set the rider weights to the correct numbers, yet once in a blue moon a

fellow proves he is human and makes an error. So, to be absolutely certain of the setting, make a "master weight" for your most-used charges. Weigh it each time you adjust the scales, to check the setting. The weights are easily made from thin sheets of aluminum or brass, stamped or scratched with the number of grains the weight represents. It will serve as a permanent check against the accuracy of the charge setting as well as the accuracy of the zero setting. Zero readings can shift.


One shooter discovered his new batch of loads locked the rifle bolt, an indication of high pressure. Then he learned his scales were set for *five grains* more than intended. A ten grain error might have wrecked the rifle. By using the master weight, he could have caught the error in time.

Many people believe better accuracy is obtained if all charges are held to within 1/10th grain, but my own tests, as well as most bench rest records, indicate that a slight variation in the powder charge has little effect on accuracy. The reason is, no two kernels of powder burn exactly alike. Most powder measures will throw rifle charges with no more than 1% variation.

Even laboratory loads that are held to 1/10th grain or closer, with every possible variation eliminated, will often show a velocity spread of 50 feet per second, or more. Even when a single case is used for extremely uniformity, along with bullets that have been weighed and miked, some of the group spread at the target is caused by primer variation, as well as by barrel vibration.

The "Little Dripper" is handy when weighing powder charges, and too cheap to do without. The measure is set for a slight under charge, which is thrown on the scale pan. Then the Dripper quickly adds the last few kernels of powder to bring the charge to exact weight. Pistol shooters can use it alone, without a measure, to throw light charges directly in the scale pan. Sometimes the Dripper "walks" or gets moved out of position. Eliminate the trouble by putting it in a small, shallow jar lid. Fill the lid with melted lead the first time you are casting bullets, and the problem is solved.

These tips will make reloading easier and even more fun, so let's start filling up that accumulation of hulls.



## Guns

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# Elmer Keith says...

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of which call for the plain cross hair and



Flick of lever changes reticle on new Bushnell Command Post scope from cross-  
hairs to flat-top tapered post to suit existing light and range for hunting shots.

For years, many timber hunters have preferred a big, black, flat-top post for close range timber shooting. Others, myself included, prefer a heavy cross hair. Then there is the man hunting open country where long shots prevail who wants a cross-hair reticle that does not cover too much of his game and enables him to see the strike of a bullet. Bushnell's new reticle will completely satisfy all three. It consists of a plain cross hair heavy enough to show well in any shooting light—and also, by the simple turn of a small lever under the windage adjustment cap, you can turn up a beautiful flat-top post. The top of the post rides level with the horizontal cross wire and the vertical hair splits it in the middle. It makes an even better post reticle for timber hunting than the plain post, as the horizontal wire gives you instant elevation and the vertical hair extending from top of post to top of field gives you certain line-up.

When a plain flat-top post alone is used and you place it on game or a black bear in dim lights, the top of the post tends to blend right in with the animal so that you cannot tell exactly how high you are holding. Not so with this new Bushnell reticle. The horizontal and vertical wires show you instantly exactly where the top and center of that post is located.

The horizontal and vertical wires will usually cross some light patches in the field of view and are then easily discernible, giving you both vertical line and elevation. For the quick running shot, the horizontal wire is also a big help, as you can shove the post ahead of an animal and let him run right down that horizontal wire as you press the trigger, with your post out in front for correct lead. The big post is quicker to catch for such shooting in dim light, as it is something you see instantly without having to look for it. On the other hand, the post is a distinct handicap for long range work. It covers entirely too much scenery and game, and you cannot see the strike of a bullet

some for the post. This combination reticle will give the shooter almost instant choice for any conditions he is likely to meet in the big game field. It is the best all around reticle we have seen for the big game rifle.

## Custom Fitted Target Grips

Herretts, of Twin Falls, Idaho, who pioneered along with the first custom pistol stock makers, can furnish custom walnut stocks for any hand gun and tailored exactly to fit the individual hand. They have a great many forms and want a diagram of your shooting hand. With this, they can fit you exactly. These big, hand-fitting target grips are a great aid to many for straight target shooting. They can be had with individual fitting for each finger plus thumb rest. The butt can be made to curl around under the palm of the hand for further support, much like the stocks on a free pistol. While a distinct aid to very fine close target grouping such stocks are totally out of place on a practical hand gun used for quick draw, defense, or game shooting.

## Bead or Blade Front Sight

Since the advent of the rifle, individual riflemen have argued as to which type of sight is best for a hunting rifle: the round bead or the flat-top post. Each type has its staunch followers. For the benefit of those who have not formed an opinion, here are my findings in the matter.

The round bead, if flat faced and made of gold or ivory, shows up beautifully through a peep or receiver sight, as it is round the same as the aperture. It also shows up beautifully on game and is very fast for close to medium range game shooting. On the deficit side, it usually has a very thin shank that is fragile, easily bent or broken off and then the hunter is out of luck until a new one is installed. Also it is hard to hold for elevation with the round-top bead. In this respect it is like a sharp-pointed

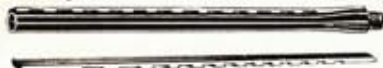
(Continued on page 42)



## HEY! VENTILATED RIBS!

ONLY \$3.79 + 20¢ pp.—(Should be \$35.00)

• Shotguns • Rifles • Pistols



Yes, a ventilated rib on shotgun barrels costs up to \$35.00 more for this faster sighting, better shooting "extra"—but we can supply this ready to install rib, fully machined from solid to full .315", for only \$3.79. Machined grooves on rib make it no glare—mounting posts are pre-tinned for gas stove assembly using regular soft solder. Makes any shotgun, pistol or rifle into a custom deluxe model. In white (try our instant blue—Formula 44-40-5 Full gun size \$2.00). Yours at far under production cost—for only \$3.79.

\*See our listings on rifle, pistol & shotgun sights adaptable to above ribs.

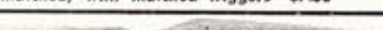
### HI POWER 22 CAL. BARRELS

— Just a Few Available —



27" Long, 8 groove, 1 3/16" at breech tapering to .625 at muzzle. Don't ask why, but these super fine barrels were German machine gun BBL's, refinished & lined to .22 Cal. with new Parker Hale liners by B.S.A. chambered to 303/22 British. We cut off useless m.g. end so front 1 1/2 of 303 chamber remains which gives chambering start for large c.f. 22's. For 22 c.f., simply cut shorter—less than price of liner alone—serious 22 BBL's \$7.95 plus 60¢ pp.

**PARKER SHOTGUN HAMMERS—New—state go. & if right or left side—\$3.75—special set of both matched, with matched triggers—\$7.50**



### STOCK BLANKS

of finest American Walnut, pretreated, shaped and through lat sanding, true measurements which permit inletting for both high power and small bore rifles; bolt action shotguns; or cut off and use on pump shotguns and doubles. 28 1/2" long, 1 1/4" through, 3 1/4" depth. Special price—\$2.95 plus 35¢ del.



**RUGGED MILLED REAR SIGHTS**

for all rifles—made by Remington, machined bevel edges—top quality from \$130.00 grade gun—standard dovetail. Throw away your cheap stamped sight & install one of these for both durability & superior sighting—\$1.00 ppd. or \$9.00 per doz.

### CARCANO—JAP

Front Ramp Sights ridges on ramp make it no glare, in white, .525 for Manlicher, Carcano, Japs, etc. Often used as a pistol sight—ONLY 0.5¢ EACH or \$9.00 per doz. (Add 35¢ for front sight blade)



**SAVAGE 1903-06-09-12 .22 MAG. AZINES.** Rare magazines, unavailable for years, only \$2.85 ppd.

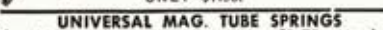


### .45 AUTO MAGAZINES

made 1934 of new steel spec., superior to any made previously. New, in orig. wrapping, \$1.95 ea.—2 for \$3.50. NOTE: When 2 are ordered, new web carrying case included FREE.

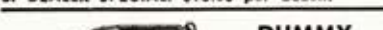


Universal magazine springs, usable for Springfield, Enfield, etc. convertible to Japs, Mausers, Bolt Action shotgun magazines etc. New, packet of 10, SPECIAL ONLY \$1.95.



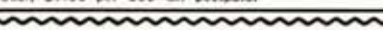
**UNIVERSAL MAG. TUBE SPRINGS** for 12 ga. shotguns.....\$1.75 per doz. for .22 rifles.....\$1.75 per doz.

**22 CALIBER INNER MAG. TUBES—Universal design, complete with cap, spring, follower. Easily altered to fit most .22 tubular guns. \$1.75 ea., or DEALER SPECIAL. \$18.00 per dozen.**



### DUMMY CARTRIDGES

.45 ap in nickel cases (regular unloaded primer. We use them on key chains—simply drill through case—pilot hole already there—Wonderful gifts for friends, customers, club members—through brass key chain & keepers shipped free for quantity ordered—\$1.00 per doz., \$7.00 per 100—all postpaid.



ONE OF THE FINEST SIGHT BUYS WE HAVE BEEN ABLE TO OFFER FOR YEARS. For Jap, Mauser, Krag, Springfield, Enfield, & many others—receiver sight fully adjustable for windage & Elevation lock screw assures same setting regardless of rough handling, side adjustment screw knurled. Design locks one mounting screw so can never "slide loose" & be lost. Two sight apertures (target & hunting). Very special price—\$2.95 ea.



## GIANT STOCK SALE!

All Walnut  
All new unless marked  
Stevens 311, 530 & 5100 series, doubles.....\$6.75  
Fore-ends for above, wood only, no metal.....2.00  
Savage 219, 244 O.U.....3.50  
Savage 94 & 107 series single BBL.....3.50  
Fore-ends for 94 etc., complete, 12 ga.....2.95  
H&R 348 & 340 bolt action shotguns, 12 ga.....4.95  
Iver Johnson 22 safety rifle.....2.75  
Johnson semi-auto 30.06.....12.50  
Thompson M1A1 model.....2.95  
Johnson L machine gun.....2.95  
U. S. 1917 Enfield—no metal.....2.95  
U. S. 1903 Springfield—no metal.....2.95  
Springfield 30 & 308 series, sound.....4.95  
Ithaca Mdl. 37, 12 ga. (w/w/vel cut).....6.95  
Ithaca Mdl. 37, Checkered, no swivel cut.....8.95

### A SPECIAL SAVING OF \$10.00 SPECIAL PRICE \$5.75

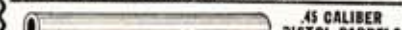
Armstrong receiver sights amazing dual range—after micrometer windage & elevation is set, pressing button increases settings automatically 100 yds., another press & sight returns to original setting. All adjustments with lock screws & Allen wrench contained in sight base. Quick detachable, press button and sight slips from base, slip back in and sight returns to your original setting. Special grooved eye disc centers eye automatically—used for years on world's finest factory Mauser sports, fits Mauser, Springfield, Enfield & Krag.

USUALLY \$15.75



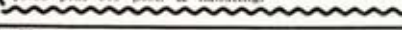
### NEW .44 CAL. BARRELS

22" long, straight 1 1/4" dia.—6 groove. One end turned to 3 1/4" from 1 1/4" from turned end shallow dovetail. Used for .44-40, .44 Spec. High alloy steel, adaptable to Win. '02, 1873 & others, pistol barrels, etc. Price \$6.95 plus 55¢ ppd.



Brand new, straight lengths, 3 1/4" x 38", for extra long and/or fancy barrels. Supplied chambered for .45 auto or unchambered, state which—\$3.93 ea.—or 2 for \$6.50.

.45 BARRELS heavy tapered ideal for muzzle loaders, custom made revolver miniature cannons etc. etc. Rifled. New, \$3.35 plus 50¢ post. & handling.

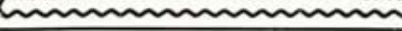


### U. S. CARBINE

Front band & bayonet attachment—fits all Models U. S. Carbine—New—\$1.75.



**U. S. CARBINE OWNERS—**a fresh new sling, other 15 shot mag with water & tobacco proof rubber cap & instant cleaning cloth & brass brush—whole set, all new—\$1.95

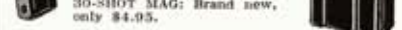


### U. S. CARBINE MAGAZINES

5-SHOT Magazine: Fits flush, required in most states for hunting, our special price only \$2.15 ppd.

15-SHOT MAG: Brand new, only \$1.00 ea. 2 for \$1.75 (free used carrying case given when 2 are ordered).

30-SHOT MAG: Brand new, only \$4.95.

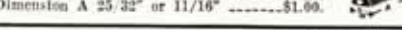


### WINCHESTER '94 PARTS SPECIAL—ALL NEW

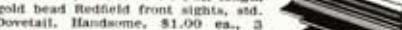
**MAJOR OVERHAUL KIT—**probably never again at this price! New breech, barrel, carrier, lock and complete locking bolt—your discount over double that of even biggest dealers. All for \$7.95 ppd.



**COLT revolver rear sight, easily doctored into any revolver, set screw to lock windage, Dimension A 25/32" or 11/16"—\$1.00.**



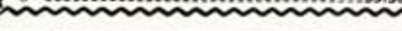
**USUALLY \$1.75 . . . . .** Full length gold bead Redfield front sights, std. Dovetail. Handsome, \$1.00 ea., 3 for \$2.50, 12 for \$7.95.



### BARREL BLANKS

**9MM — .357 — 38 SPECIAL**  
Order the length you need—940 o.d., in white, 6 groove rifling.

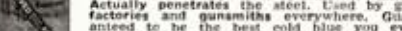
24".....\$4.75  
12".....\$4.95  
6".....\$3.50



### INSTANT GUN BLUE

NOW USED IN EVERY U.S. GUN PLANT AND MANY ABROAD.  
**NEW HIGH-SPEED FORMULA** gives even better results—takes seconds to apply—... beautiful, protects. Used cold, nothing complicated. Deep blue permanent finish. Actually penetrates the steel. Used by gun factories and gunsmiths everywhere. Guaranteed to be the best cold blue you ever used—or your money back.

**3 GUN SIZE**.....\$2.00 ppd.  
**INDUSTRIAL GUNSMITH SIZE**  
1 pint.....\$7.50 ppd.



## CHAMBER REAMERS FOR .30 U. S. CARBINE

Full set of four, brand new, top quality Pratt & Whitney—originally cost \$13.20 ea.—SPECIAL \$12.50 for entire set!



### ORDNANCE TOOLS for U. S. Carbine

**GAS PISTON NUT WRENCH,** essential for removing gas piston for cleaning.....\$1.00

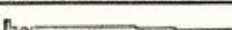


**BOLT ASSEMBLY & DIS-ASSEMBLY TOOL—**saves time, lost & broken parts, skinned knuckles.....\$1.00  
If both above tools purchased, trigger spring tool included Free.



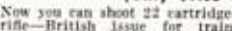
### U. S. CARBINE STOCKS

brand new, complete with new recoil bar, butt plate, screws, front band spring, \$3.95. Same, less metal parts, \$3.95. (Very light color stocks, finish sanded but not stained, same prices.) Carbine Handguards, new, \$2.50 ppd. Write wants for other carbine parts.



### 22 Cal. Adapters for .303

(Only \$1.00 Each)



Now you can shoot 22 cartridges in your .303 British rifle—British issue for training—surprisingly accurate and almost silent when fired in regular rifle barrel OR buy one of our 22 barrel blanks and turn to rifled, reusable rifle. Similar to U. S. 1922 adapter cartridge but uses S. L. or L. Rifle.



### ADJUSTABLE CHOKE RECOIL REDUCER

Shooters Guaranteed Dealer! A terrific value! Choke attachment worth \$17.95, complete and ready to silver-solder or brace in your own shop. 5 in. long, in white, complete—12, 16 or 20 ga. —\$4.95 PPd.



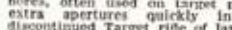
### 70% DISCOUNT TARGET FRONT SIGHTS

Amaze your friends, astound your targets—regardless if paper, can, or game your "hits" must improve with this sight—for Hi-powers and small bore, often used on target pistols—complete with extra apertures quickly interchangeable. From discontinued Target rifle of largest U.S. rifle manufacturer—at a 70% discount! Price \$1.49 ea.—(Dealers \$12.00 per doz.)



### GARAND RIFLE CONVERSION KIT

reduces to 5 shots, only way to make Garand fully legal for hunting in most states. Easily installed & removed. Set, complete with special follower & 2 five shot clips, \$3.95. Extra 5 shot clips, 95¢ ea. Standard 8 shot clips, \$2.00 per dozen.



### GARAND Takedown

& chamber cleaning tools, fits in trap in butt—new \$1.00 ea., 3—\$1.50 ppd.

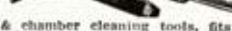
**GUARDRAILS—**set of both, complete with metal, brand new \$2.50.

**GARAND RIFLE CLIPS—**.....\$2.00 per doz.



### BREECH OIL & THONG SET,

For Springfield and Garand rifles, fits in butt, made of plated brass. Excellent ....\$1.00 ppd.



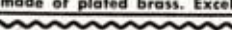
### REMINGTON M11 RECEIVER

Brand new in white. All holes drilled and tapped, with action spring tube. Fits either 3 or 5 shot models. \$9.95 ppd. New fore-end, plain, 3 or 5 shot (state which) \$3.49. Trigger plates (guards) only when ordered w/above, stripped, \$3.25. Many other parts—advise wants.



### STANDARD BRASS SHOTGUN SIGHTS,

large bead, regular 4x40 thread, in constant demand, usually \$1.00 installed or 50¢ ea. Special packet of 10 for only \$1.00, OR super special, 10 packets (100 sights) for only \$7.50. (Tap for above 4x40, 50¢ extra)



### SAVE \$4.00

Yes, unbelievable as it sounds, save a full \$4.00 on these new Lyman 37 sights—each with target knobs—regular price throughout the country is \$4.50. Our buyers worked long and hard to bring you this special. Order 37's for 22 rifles, 37A for larger round receiver high powers, etc. Mount on left side—only \$4.50 ppd. (Dealers \$40.00 per doz.)



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Modern—Obsolete—Foreign. For free quotation send broken part or rough sketch with full information.

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We, at Firearms International, try to give our customers the best in imported sporting firearms. The quality of our guns is never sacrificed for the sake of a lower price. Thus we have been gaining the confidence of an ever increasing number of sportsmen and their dealers.

The arms we distribute are the cream of the crop: F.N. Mauser rifles, barreled actions and actions, in the popular Deluxe model as well as in the new, terrific Series 300 line; Sako rifles, barreled actions and actions, including the famous 6½ lb. super accurate Sporter model, capable of matching many target rifles with consistent "under minute of angle" groups; Astra pistols, including the increasingly popular little "Cub" .22 Short, the .25 caliber "Firecat" (Model 200), the new, versatile "Falcon" with conversion assemblies permitting the use of up to three different calibers of ammunition in the same pistol; Star pistols, for every use, in calibers .22 L.R., .32, .380, .38 Super, 9mm and .45 ACP; the AYA Matador shotguns, offering features normally found only on guns selling for twice the price.

Our space here is limited. We can't tell all we would like about our products—we can't even list here all the models of our line.

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## CROSSFIRE

### LETTERS TO THE EDITOR

#### The Cutts Comp Story

Your November issue carries a good article entitled "The Story of the Cutts Comp" by Brig. General Richard M. Cutts, Jr. On page 52 General Cutts says: "Finally, an executive at a major gun manufacturing company 'allowed' that I had something new and perhaps something marketable, etc." We think that probably has reference to the Ithaca Gun Company.

Way back when, the then Colonel Cutts, father of General R. M. Cutts, Jr., came to Ithaca to see Lou Smith, then our Vice President. With him he had drawings for the Compensator device, and the Ithaca Gun Company worked with him in the first experimental making of them from those drawings. Both Harry Howland, our current Plant Manager, and Nestor Smith, our current Chief Engineer, recall that first they tried making it with the slots on the side and then with the slots at an angle, and after various attempts along this line worked it out into the final form for Colonel Cutts. This work was done on our Ithaca Single Barrel Trap Gun. They actually made up a Compensator and put it on a pair of double gun barrels. We still have this one here in our plant. That didn't work out because what it amounted to was two Cutts Compensators side by side mounted on the double gun barrel and the whole thing was too big, bulky, and heavy.

After working out the single version successfully, Lou Smith did suggest to Colonel Cutts, as indicated in the article, that he go to see Harry Lyman who was then heading up the Lyman Gun Sight outfit over in New England for the actual production, manufacturing and sale of the device.

Thought you might be interested in the above additional information, and perhaps some of your readers would also be interested in that.

Sheldon M. Smith  
Ithaca Gun Company, Inc.

#### Bouquet to New Mexico

A bouquet is due the New Mexico State Game Commission for revising obsolete laws to make handguns legal for big game. The minimum big game gun for New Mexico hunting must deliver 1,000 foot pounds of muzzle energy with a bullet of 46 grains or heavier, but the old law had a clause that said the "gun must be fired from the shoulder." The shoulder clause has been eliminated provided the gun meets other requirements.

The Game Commission had area wardens sample the opinions of some of the 82,363 licensed hunters. Perhaps no more than a few thousand had the slightest idea of taking big game with a handgun, but nearly all

agreed the clause was unfair. Tim Maxwell, sporting goods dealer in Roswell, who worked to remove the clause, said the Game Commission made every effort to cooperate with sportsmen. As the law now stands, the .44 Magnum is the only commercial handgun cartridge legal for big game. Handloads with Jugular bullets in .357 Magnums are also legal. With the constitution getting more unconstitutional every day, it's refreshing to have the handgun accepted for what it is: a top sporting arm used by decent people. Other states might take a good look at the good laws in the Land of Enchantment.

Kent Bellah  
Saint Jo, Texas

#### Kudos for Cordite

I have just been browsing through a November issue of GUNS magazine and in particular an article "Guns For Dangerous Game" by Jose Fenykovi. Suddenly a picture caption hit me between the eyes: "cordite loaded British ammo described by experienced African Hunter as bad stuff—Fenykovi likes U.S. shells." Accordingly I felt constrained to write a bleat to your fine magazine as a private citizen taking up the cudgels on behalf of our cartridge manufacturers.

Cordite is a double base propellant composed of nitroglycerine and nitro cellulose in gelatinized form which, weight for weight, is one of the most powerful rifle cartridge propellants in existence. Another great advantage of cordite and one of the main reasons for its continued use is that it is quite the most stable of all propellants. The facts are that cordite keeps extremely well and as heavy calibre cartridges are very expensive they tend to hang around for many years in extremely adverse climatic conditions. Cordite has a far longer life and is far less susceptible to climatic extremes of temperature, hence its wide application in cartridges of heavy calibre which may require it to be stored for long periods in hot climates such as Africa and India.

J. B. LeBreton  
Parker-Hale, Ltd.  
Birmingham, England

#### 17,000,000 Voters

I think GUNS Magazine should organize a campaign to stop the anti-gun legislation so popular nowadays. This should not only constitute individual letter senders but a wholesale war on the anti-gunners in the form of a petition that could be published in GUNS which could be signed and mailed to GUNS or to where they would do the most good.

We should also take physical action in the form of a committee representing all the active shooters in the U.S. The committee could go to Washington and present its views. This could be accomplished by GUNS Maga-



zine, The NRA, and other organizations. It had better be done soon if ever at all.

Its time we acted. Its time the legislators saw our faces. Theoretically there are 17 million shooters. Imagine what we could get if the lawmakers saw us as a voting unit!

Your magazine is terrific. Keep fighting for our rights to have and use a gun. You have a reader for life.

Charles Pernice  
Brooklyn, New York

### Police Departments Please Copy

As you know, one of the big problems of the citizen-shooter is finding a lawful place to fire. In a community adjoining Toledo that has its own police force, the men of the police force have, on their own initiative, built a firing range in an un-used portion of the police building basement. They have invited responsible citizens to use this range during hours when competent instructors can be on duty. I believe, nationally, that this could be a very big help to the shooters of America and to the police departments of this country.

Bill Leon  
Toledo, Ohio

### More Machine Guns

For about half of my 18 years, I have been very much interested in guns of all kinds. Now, as a small-arms repairman in the Marine Corps, I am especially interested in automatic weapons. I think your magazine is the finest I have ever seen on guns, and I have especially enjoyed your articles on machine guns and military automatics. From "Crossfire" I learn that I am not alone in feeling that the present prohibitive laws concerning pistols and machine guns are unjust and unwise.

I can think of no weapon I have enjoyed firing more than the BAR. It seems a pity that American sportsmen never get the opportunity to fire fully automatic weapons. I believe that one of the best things about machine guns is their psychological effect on the shooter and in combat, on the enemy.

I would certainly like to see an article on that new pistol that fires the .30 caliber carbine cartridge.

Charles Alexander  
Camp Lejeune, North Carolina

### More Antiques

I have just received your last issue and do not wish to write you a fault-finding letter but for my money you are making a mistake in the articles used in recent magazines. I subscribed to GUNS because of your fine articles on antique firearms. Since then, however, being a gun collector, I find there has been a constant reduction of articles and photos on antiques.

Reminding you that there are close to 100,000 antique gun collectors in the U. S. and Canada who are, like me, partly responsible for the success of your magazine, I feel you are letting us down. How about one article at least in each issue, with some close-up photos of the better antiques and oddities?

William H. Wallace  
Wolfville, Nova Scotia

There's only one answer: this game of ours, the biggest of guns and shooting, has so many different facets that no magazine can possibly touch them all in every issue. But we're trying.—Editors.



Nebraska prairie dogs, farm pest and favorite target

# New!

## SUPER EXPLOSIVE VARMINT BULLETS

*designed especially for the 222 cartridge*

New 22 caliber bullets in two weights—50 and 55 grain—designed especially for the 222 cartridge—amazingly accurate and dramatically explosive. Most 22 caliber bullets are intended for all 22 caliber rifles from Hornet to Swift. These specially designed 22s are super explosive at all 222 velocities.

Ask for **HORNADY SX BULLETS**, 22 Cal. 50 or 55 Gr.

Bullets in all popular calibers—send for list  
None so deadly with equal accuracy

# Hornady BULLETS

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Peterborough, Ontario

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### HANDLOADERS!!!



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NORMA OLYMPIC CHAMPION  
AMMUNITION AND COMPONENTS

Headquarters for OFFICIAL NRA TARGETS. Write for Free Price list.

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# HE BACKS HIS

By CLIFTON CAMP

NEVER SINCE THE DAYS of the old western gunfighters has gun speed been a matter of such widespread popular interest as it is today, and the question, "Who is the fastest gun?" is almost certain to provoke heated debate in groups of all ages, at all social levels.

Oddly enough, the name that is being offered with increasing frequency in answer to that question—offered by people with real knowledge of guns and gun skills—is a name not connected with any moving picture or TV series. Pleasing to the old timers in the gun game is the fact that this gunslinger is a man who has come up through the accredited "schools" of gun use—a man who first made a name as a competitive rifle and pistol target shooter, who taught rifle and pistol marksmanship—a man who, when he "turned Pro," stepped successfully into that most demanding of all shooting roles, that of the manufacturer's touring exhibition shooter. Here, then, is a man who believes in hits, not merely in legerdemain; a man who is ready, at any time or place, to "prove his claim with bullets." Bullets that hit; because it's the hits that count, not how fast you can shuck the gun out of the leather.

This man is Joe Bodrie, formerly demonstration-exhibition shooter for Colt's.



Bodrie challenges all comers on this test of reaction time versus speed. Opponent faces Bodrie, hands apart. Bodrie draws, points, snaps "shot" before opponent can clap hands together. Opponent's reaction time gives Bodrie ample time to "kill" him.



# CLAIMS WITH BULLETS

**IS JOE BODRIE "THE FASTEST GUN?" YES OR NO,**

**HE IS ONE GUNSWIFT WHO BELIEVES IN HITS MADE UNDER COMBAT**

**CONDITIONS, NOT SMOKE TO FOOL A CAMERA**

Bodrie has found that a lot of factors enter into this business of gun speed, and many of those factors are overlooked in the arguments. With typical human lack of logic, two of the factors most often ignored are the two that are most basic: what results are you after, and what is it you are timing? For movies or TV, the man who can get his gun out of the leather and into a cloud of muzzle-smoke fast enough to please his critics has done his job. Don't low-rate him; draw speed is a highly developed skill, and it fulfills its purpose. After all, you don't want real gore in your picture tube; and think what a deterrent real bullets, bullets that hit, would be on the acting profession!

For the actor, the essential time starts when his hand moves, ends when the gun fires. Nothing else matters.

But timing a man's potential gun speed to determine his effectiveness in a draw-and-kill duel is a very different matter. Here you must include reaction time—the time it takes this man to decide to make his move. And you must include the place-



Famous "Border Shift" transfers left gun to right hand and vice versa. Bodrie uses 4 spectacular variations.

Unique multiple-exposure shows amazing economy of movement which is secret of Bodrie's speed. Note easy, natural pose, lack of body movement. Gun is cocked after leaving holster.



ment of the bullet. The slow gun can beat the fast one if the slow gun hits and the fast one misses. This accounts for some of the surprise endings to old western shoot-outs; and it accounts also for much of the disagreement about gun speed today. Joe Bodrie is one of the few of today's gunswifts who includes both of these factors. If the slug doesn't score a killing hit on the target, Bodrie calls the draw a failure.

Joe is different in another way, too. He's willing to match his draw against that of any man or any timing machine worthy of the name. Not only willing; he has traveled thousands of miles at his own expense to seek out such contests. (Again, don't be too quick to damn the boys who won't face such competition. Bodrie has little to lose if he's shaded. Knowing Bodrie, I'd bet that the same man wouldn't beat him a month later; Bodrie would put in twenty hours a day at practice, if it was needed, to gain that extra fraction of a second? Your moving picture and TV personality would be laying his livelihood on the line in any such competition. You can't blame him for being reluctant to risk a rating as second best or worse instead of "World's fastest" as he is labeled by his publicity department. Bodrie doesn't blame them. He doesn't say he can beat them, either—at their game. But he's willing to bet that he can beat them, or you, at *his* game, where reaction time counts and claims are backed by bullet holes on the target.)

Bodrie was bitten by the gun bug at a very early age. Long before he had ever fired a gun, Joe took over the chore of cleaning and oiling the service revolver worn by his father, Patrolman Hiram Bodrie of River Rouge, Michigan. By the time he was 12, Joe was putting in a lot of spare time "dry firing" his father's Colt in the privacy

of the Bodrie basement. He got his first "live" practice with that same Colt during the summer of his twelfth year.

During the war years, Bodrie was a gun instructor. Two jobs after VE Day, Joe was the proud owner of a set of target Colts—.22, .38, and .45—and was a member of the United Steelworkers Union Local 1299 in the employ of the Great Lakes Steel Corporation. This job and the union membership were important, because they gave Joe his first real introduction to competitive target shooting as a member of the union's rifle club, on the union's range. Club rules forbade pistols, so Bodrie turned to smallbore rifle shooting. His first award was a gold trophy won in the William Randolph Hearst Rifle Matches in Detroit. But he kept up his pistol practice too, and when he entered the Michigan State Pistol Championships he lost only one event in the Marksman class.

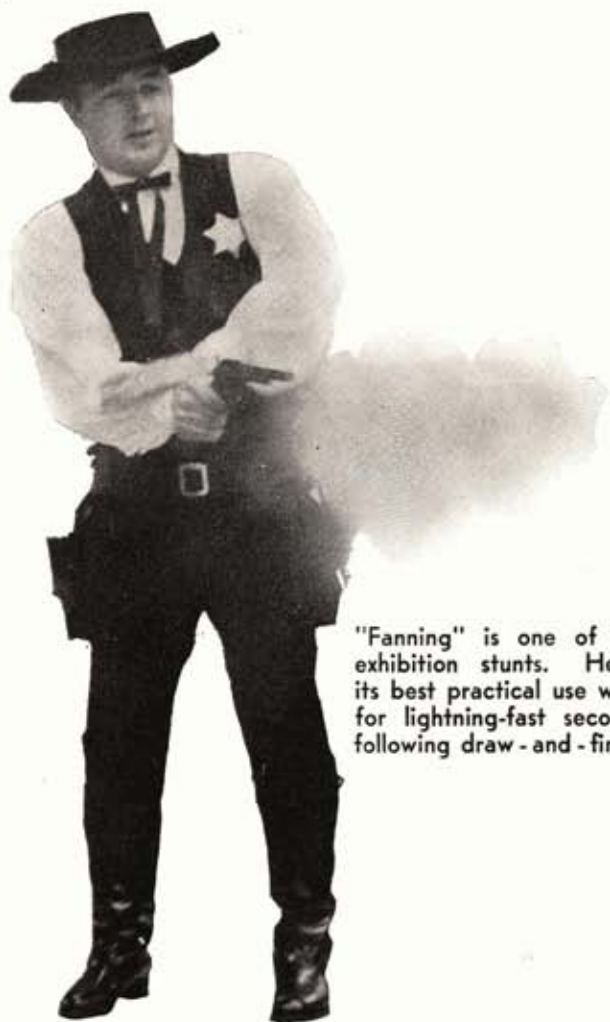
He shot next in the big Sparrows Point matches, in Maryland; took home four first place and three aggregate trophies. Nobody cleans house in a match of that caliber unless he's good, and the Bodrie name began to be noticed.

By this time, Bodrie had set his sights firmly on a career as an exhibition shooter. In addition to the practice which was making him a master in target competition, he was practicing also on exhibition-type targets in the basement of the Union Hall. He had no place to work on aerial shooting, so he faced the necessity of building a dramatic act based strictly on precision shooting. His fiancée, Miss Irene Beatty, helped him perfect that act and the "patter" that went with it. Miss Beatty died the night before Joe's first show, a month before they were to have been married; but Bodrie still credits her with much of his success. *(Continued on page 40)*

Specialist on fast draw and exhibition work, Bodrie's career includes winning record as rifle, pistol competitor, plus broad experience as shooting instructor.







"Fanning" is one of Bodrie's exhibition stunts. He thinks its best practical use would be for lightning-fast second shot following draw - and - first - shot.



Working with "Buffalo Bill Jr.," Bodrie perfects art of gun spinning and fancy rolls which add color to his performance.

Firing Colt rifle with machinegun-like rapidity is part of Bodrie exhibition which packs stores in which his shooting act is shown.







Whether on prairie poodles, rabbits, coyotes, or bouncing cans, practice on running targets is a fine fun route to better hunting accuracy.

Standing is poorest of all shooting positions on any target, so why use it on tough running game when sitting or kneeling can get you more hits?



# SHOOTING on



Kneeling position is quickly taken and nearly ideal for running targets, being far steadier than offhand and allowing a full, free swing on game.



**CLOSE MAY BE GOOD ENOUGH WITH A SCATTERGUN,  
BUT RUNNING GAME WITH RIFLE TAKES A PRACTICED  
COMBINATION OF SWING, LEAD, AND EXACT SIGHTING**

By TOM TROYER

**T**HERE IS PROBABLY nothing in the vast realm of powder burning that the garden variety cap-buster does more of and knows less about than shooting moving game with the rifle. I don't have any statistics on the number of shots fired at running big game animals each fall, but I would be willing to wager a couple of good used sling swivels that more rounds are expended that way than on big game of the standing, sitting, or squatting variety. When you think of all the shooting that is done at driven or flushed white-tails in the various eastern states, and all the hulls used in worrying down low-flying antelope in the west, and all the slugs thrown at deer bouncing out of rocky western canyons, it adds up to a lot of ammo.

But badger one of the brethren about how he handles his smokepole when the game is gamboling across the scenery and you will probably find that he not only doesn't know what he does but doesn't know what he should do. Turn the talk to targets that stay put, and our friend will regale you at painful length with descriptions of trigger-squeeze, position, and sight picture; but just roll those targets into motion and watch him clam up.

The whole problem is further muddled by the spinners of hunting yarns who speak in terms of "instinctive" gun-handling or "snap-shooting" whenever they have to describe a shot at a running animal. They never tell us *how* their pal Joe Zilch managed to bring down Old Baldy, the legendary moss-back with the rocking-chair antlers, as he bounded into the next township. They simply explain that Joe "snapped off a shot instinctively" and thereby unhinged Old Baldy. This is all very poetic, but it can hardly be said to enlighten the reader who is not blessed with Joe's infallible instinct and who would like to hit running game more consistently.

## the RUN



Fast lever actions, peep-sighted as above, or rifles with scopes of low magnification (left) are excellent guns for running game.





Practice dropping to sitting position for better accuracy on medium and long range shots on running game. It pays.

Pronghorns are high-speed targets, but split second needed for steady position gives accuracy offsetting longer range.



Author Troyer likes precision varminting too, and prairie dogs at long ranges are fine for testing equipment and gun skill.

Actually, the shooting of running game with a rifle should be a cool, calculated, deliberate, and highly *precision* process; either that or it shouldn't be done at all. It is somewhat like shotgun shooting, of course, because the target is moving and the gun must compensate for that motion in order for the projectile to intercept the target. But it is totally unlike shotgunning in its essential philosophy, in its basic technique; and the man who fails to recognize this difference is in for lean days and hard winters. In addition, a faulty hit at running game is a wounding hit—sloppy sportsmanship and needless cruelty not to be tolerated.

When I began to take my first cracks at perambulating cotton-tails and jackrabbits, I already had a good bit of shotgun shooting under my belt, and I unconsciously applied shotgun techniques in my rifle sport. For many a moon I did little more than amuse the local rabbit population. Then the great truth dawned on me: with a shotgun I had a pattern to compensate for slight errors in aim, and consequently I had gotten into the habit of touching off Old Clementine whenever the sight picture "looked about right." There was no point, as any shotgunner worth his salt learns along toward the end of his first box of shells, in putting the muzzle head exactly on the tail of a straight-away bird; it was just as effective, and far faster, to point at what I wanted to hit. But with the rifle I had only one little chunk of lead to count on, and a shot was completely wasted unless the sights were *exactly* right when I triggered the load. It pains me to remember how many shots I threw (*Continued on page 50*)



Favorite Ithaca side-by-side keys idyllic still-life set up by bird gunning colonel. Sleek, graceful Westley Richards fowler at left is another of the author's prized shotgun battery.

**DIFFERENCES OF OPINION MAKE  
THE WORLD GO 'ROUND.  
HERE'S A MAN WHO JUST DOES  
NOT LIKE OVER-UNDERS!**

By COLONEL GEORGE W. BUSBEY

# I LIKE the SIDE-BY-SIDES

THE TIME WAS early dark of a sodden mid-November day, 1908. The place was the home of my grandparents in Putnam County, Indiana. Normal pre-supertime traffic flowed between kitchen and dining room passing the doorway leading to the *settin'* room where I lay on my stomach poring over the shotgun section of the latest Sears Roebuck catalogue. Each passerby momentarily blacked out the printed words, obscure enough at best in the meager light of a single kerosene lamp set in the middle of our big dining table but, since I had already memorized every word on the fascinating pages, I read on, unheeding.

Behind me, my highly admired cousin Clarence was alternately spitting skillfully against the back side of a glowing air-tight stove, and asking various female relatives "how long till supper?" My ears automatically took in, and my subconscious mind sorted and ignored, the routine noises around me, just as a browsing deer trusts the habitual but instinctively reacts to anything out of the ordinary. And just so did I snap from my happy dream world wherein I was having my likin's of the shooting hardware so enticingly illustrated before my nose, when my cousin chanted with unmistakable relevance:

"SQUATgun . . . BOTgun . . . he's crazy 'bout a SHOTgun!"

I never got over it.

For fifty years, with short periods of aberration during which my judgment was





temporarily clouded by that madness well known to most males between the ages of can and can't, I have cherished the conviction that nothing created by the hand of man—and mighty little created by any other agency—surpasses the sheer beauty of a shotgun, double barreled, brown or blue, with hammers or without, muzzle loading or breech stoked . . . *so long as the barrels are side by side.*

Reluctantly, as I grew older and learned that the moon was not always made of green cheese, that roses had thorns, that skunks were not all four-legged, I admitted that lever actions (soon vanished), pump guns, auto-loaders, and single shot single barreled devices had to be included under the name of "shotgun," even though not to my liking. They are functional and efficient but, to my eyes even to this day, they aren't pretty!

In the halcyon days just pre-World War II while we were still living it up, I was invited to a posh pheasant hunt near Alton, Kansas. Shamefacedly, I admit that I succumbed to various screwball advices in numerous Outdoor Fantasies, Fools Afield, Sporting Fiction, and Streams of Fallacies, to the extent of borrowing and appearing in the shooting area with a mass-produced over-under, twelve gauge, bored modified and full choke. Fur-

ther, to my shame, I left at home my old Lefever side-by double which had, and has to date, served me more faithfully than all other shotguns which my hands have held.

Just before the start of the first day's shoot, I sat morosely at one end of the line of guns dourly inspecting the thing in my hands. My considered opinion was that it had about as much elegance as a locust post and, I may interpolate here, it killed about as much game for me. When, after diligent expenditure of more rounds than I care to admit, a companion using a .410 Marlin pumpgun repeatedly wiped not one but both my eyes, I exchanged my open air position for a fifth of Scotch and a seat behind the kitchen range where I sulked until suppertime. That day, I swore never to desert my true love again, the side-by-side.

Men and their oaths! And advertisers and their lures! . . . My good friend, the late John Bishop, then boss of E. C. Bishop and Sons, Warsaw, Missouri, happened to mention in a letter that he had bought a fine little twenty gauge foreign superposed for his wife and that she was shooting well with it. At that moment I was sitting in Asunción, Paraguay, with some of the finest bird and wildfowl shooting in the world nearby. Simultaneously,



Skillful finishing on side-by-sides lights Busbey's eye since childhood. Careful hands carve Holland shotgun breech.



Easy pointing of flat-lying double is one reason why retired shotgun shooting colonel has not retired from game fields.



Stöcker Sauer by famous German maker shows shallow receiver associated with doubles where tubes lie sideways.





Fine American doubles are, with exception of Winchester 21, things of the past, but makers in foreign lands still lavish skill on side-bys. Top W.W. Greener pigeon gun with straight "English" grip is available by mail from Birmingham, England, maker. Middle "Matador" of Firearms International is from Spain. Stoeger Sauer (bottom) from Germany has beavertail forearm, single trigger.

I received literature which implied that the best grade of this superposed had engraving on each one which was different from the engraving on every other one in the world. Further to guarantee individuality it was alleged that each gun was signed by the engraver.

I needed such a gun just like I needed additional rocks in my head, so I hastened to order. I eventually received a thing distinguished from all others by a name which long study through a high powered reading glass seemed to be TUNKEN, only not so large. While I was admiring the engraving, a shooting companion, Dr. George Lyman Hall, wandered in. He was impressed but more intent upon a personal problem. Said he: "I have just been invited to shoot *palomitas* with a local notable and I never shot a dove in my life. What do you know about the game?"

"My friend," I said, "your troubles are over. I am an old dove shooter. Tomorrow, you and I will go to a place where doves abound and there I will initiate you into a very simple game. Doves are easy."

The good Doctor sighed with relief. "I am very glad I came to see you; I've shot about everything else, and I guess I could have learned to hit doves all right, but I hate to start off badly before these people. You know, they sorta judge you by your first few shots. . . ." How well I knew!

Along about three Post Emma next day, we twain stood beside a stream south of Paraguari. To the north was a sweet green field bounded about seventy yards from us by a hedgelike row of shrubbery fifteen to twenty feet high. Over the brush about ten yards higher came a nice succession of doves, directly toward us, offering me my favorite, (Continued on page 44)



By swimming pool of his California home Busbey relaxes, reminisces with smart Weimaraner pup "Treue Diana" about days afield with doubles while they plan next hunt.





# HOW

Norma laboratory technicians study Weatherby rifle in hands of chief test engineer Kvale who made chronograph velocity studies with special water-jacket barrels (on wall).



Muzzle and butt rest is used on Norma range for simple velocity testing. Rifles are often military Mausers cut to special caliber.

Photocell screen used in field testing is placed right before target, has fan-shaped sensitive area for registering impulse on chronograph as bullet hits the target on 300 meter range.



Field equipment for checking velocity includes two condenser chronographs for near, far distances; photocell screens, cables, and batteries.



# Fast IS A BULLET ?

**BULLETS REACH SUPER-SONIC SPEED WITHIN FIVE INCHES.**

**HOW LONG THEY KEEP IT HELPS DETERMINE HUNTING EFFICIENCY.**

BY NILS KVALE

*(Chief Test Engineer, Norma Ammunition Factory)*

WHEN JESSE OWENS made his famous sprints back in the thirties, or when John Cobb set a world's speed record for automobiles on the salt flats of Utah, their speed was reported in different ways. With Jesse Owens it was in seconds and tenths of seconds. With John Cobb it was miles per hour. But in both cases there was a common base for the figures: the time needed for a body to travel a known distance. This is the main purpose of the velocity-recording equipment used in ballistic calculations, too. It explains why the instruments read off in time elapsed, and are known as "chronographs" after the Greek words for "time recording"; but the results are recorded in terms of velocity as "feet per second."

There are many factors which affect the bullet's time of flight. These, too, may be studied in the ballistic lab to develop better ammunition, or test production ammunition to see that it is up to standard. Air temperature, relative humidity, air density, speed and direction of wind, are just a few of the small headaches for the ballistic engineers. When it comes to speeds, these men have been ahead of the times for a good many years. They were studying super-sonic speeds back in the days of Napoleon. As for acceleration, a modern rifle bullet breaks the sonic barrier four or five inches from a standstill, less than a foot from the shooter's nose.

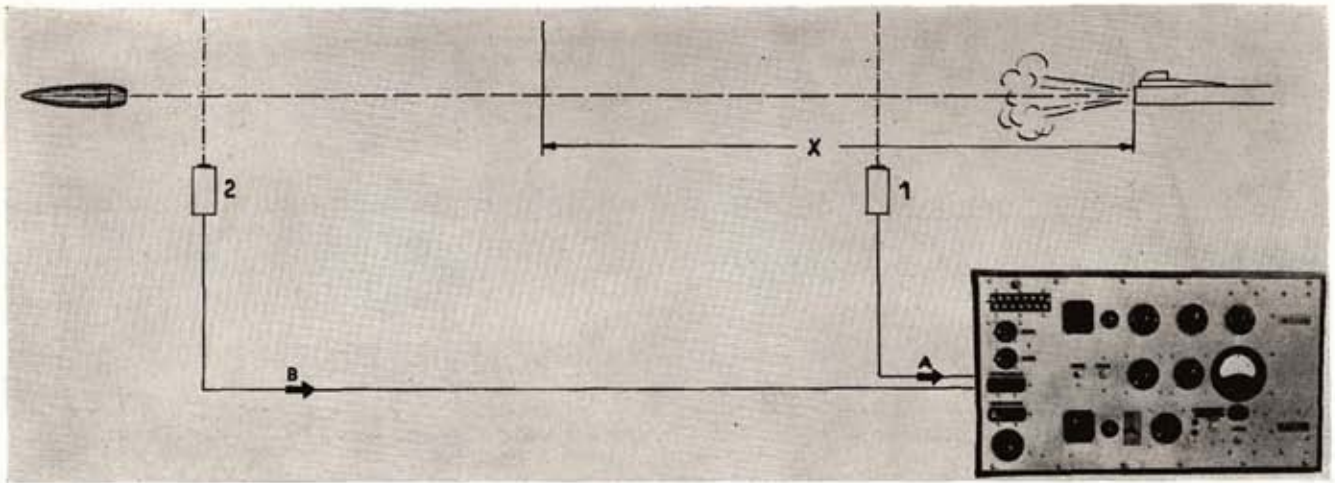
Dealing with such speeds, and discerning between loads which may vary by only a fraction of weight of powder, experimenters very soon had to look for faster-working equipment than the stop-watch. One of the earliest ballistic engineers of this century, Dr. F. W. Mann, designed a logical velocity recorder that gave him fairly constant results. He used an electric motor of known speed in terms of revolutions per minute, and connected a long spindle to the shaft. On the spindle were two cardboard disks,

mounted a known distance, say three feet, apart. Knowing the rotational speed of the motor, Dr. Mann figured the speed of the disks. A bullet passing through one disk would leave its hole; then, as it passed between the two, the shaft would rotate a little, and the bullet would make its second hole in the second disk. Measuring the relative positions of the holes on the disks, and knowing the rotational speed of the disks, gave the time of bullet travel between the first and second disk. With the base of measurement known, the velocity in feet per second could easily be calculated.

Mann's instrument lacked the precision needed for high speed bullets. Ordinary electric motors did not give constant results, due to frictional differences between motor bearings and pulleys, and also because they ran off standard house current which is not uniform enough, even today, for fine electrical measuring.

More precise was the Le Boulenger chronograph, a device developed in the 1800's in France. It has been the most widely used device for measuring short time intervals, in powder and ammunition laboratories, all over the world. Le Boulenger chronographs are still in use in many of the older European factories, since there is nothing in them to wear out except the measuring rod which is designed to be replaced. The Le Boulenger chronograph is not very fast, but it is very accurate, since it is based on the attraction of gravity—the falling speed of a released indicator rod. The Le Boulenger set-up uses a separate device to register the impulse of the bullet's passing a given point. Unlike the cardboard disks of Mann's instrument, the Le Boulenger and other recorders need some way to register the position of the bullet by means of an electrical impulse. The important fact which the ballistic engineer, or the gun crank, hunter, or target shooter, wants to know, is the average





Typical chronograph set-up uses two screens. Mid-point between (1) and (2) is position of the bullet when time impulses are translated into velocity. Thus velocity given is for bullet at "X" distance from muzzle. U. S. laboratories set screens 3' and 103' from muzzle, get speed at fifty-three feet.



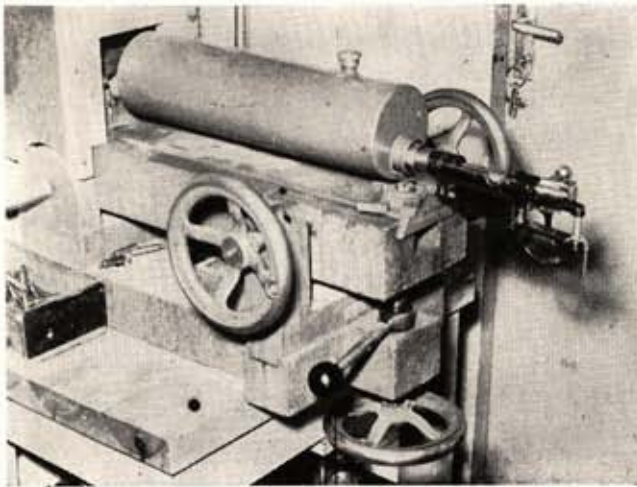
velocity of the bullet over a given distance. Thus two "impulsers" are needed, placed a standard distance before the muzzle of the gun. Sometimes the first impulse-giver is a thin wire which is broken by the bullet just at the muzzle. Then, a distance away, may be an armor plate slab which, when hit, is so connected as to register another electric impulse. In this system, the circuit is broken to register the impulse.

Other systems use devices which make, not break, a circuit. These chronographs may be connected to "screens." Sometimes the "screen" is actually that, sheets of copper window screen, assembled into a sandwich of two sheets of wire screen insulated by cardboard or a Bakelite plastic material. When the bullet penetrates the first screen, its jacket touches both sheets of wire at once and closes the circuit, sending the impulse to the chronograph. When it hits the second screen, the same thing happens. The chronograph measures the time elapsed between the two electrical impulses. Now, insulated printed tape is used with some instruments, such as the Hollywood chronograph.

Le Boulenger's circuit breakers are necessary to the operation of the instrument. At the chronograph is a steel bar, hung vertically from an activated electro-magnet. The recording bar magnet is connected to the first "screen," the fine copper wire before the muzzle. At the shot, the circuit is broken and the bar, no longer held by the magnet, starts to fall. At the second screen, the second circuit is broken, and another piece of steel is released by a second magnet. This second piece of steel immediately activates a small knife which cuts sideways and marks the falling indicator bar. Of course, a slow-travelling bullet will allow the bar to fall farther than a fast bullet. By measuring the distance from the mark to the magnet-end of the bar, the time of fall and therefore the time of bullet travel between the two impulse devices is calculated. In practical use, the ballisticians has a ruler calibrated directly in feet per

Standard use of photoelectric screens fitted to steel bars on indoor range has first bar 12.5 meters from muzzle, second 10 meters on. Sensitive area is that between the dotted lines.





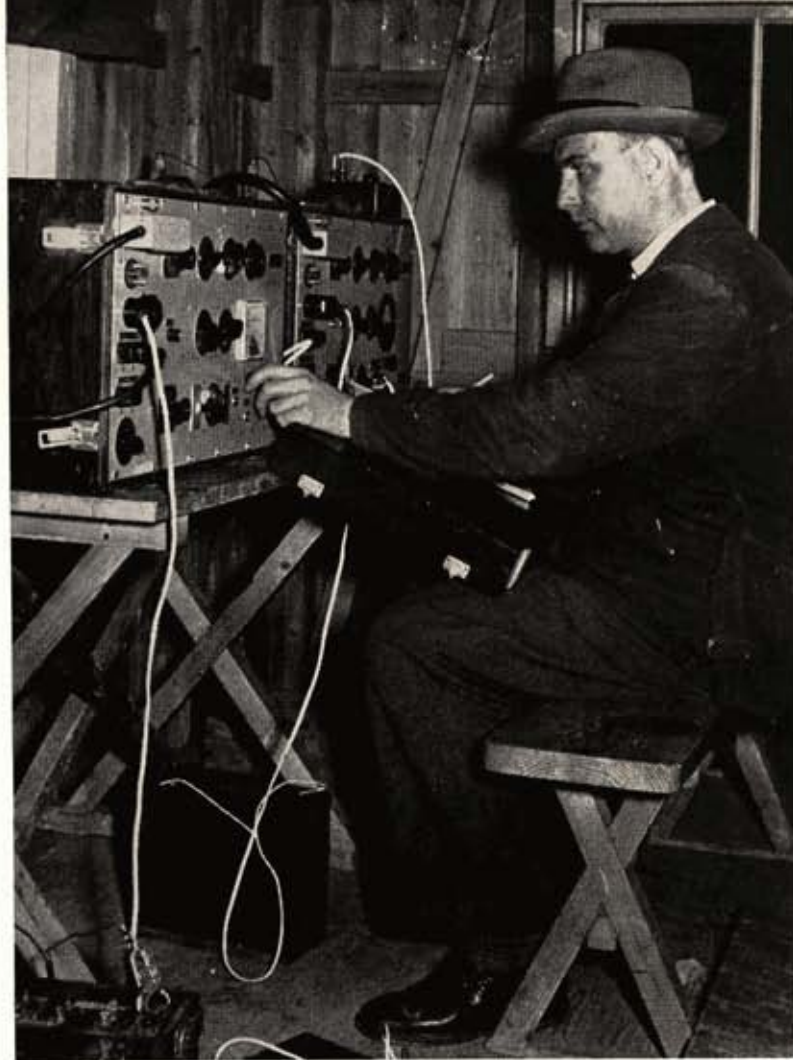
Special test barrel for velocity work at Norma factory is fitted to Mauser action and surrounded by machine gun water jacket. Barrel is kept cool for uniformity.

second, or meters per second. Between shots, the steel bar is blackened by a carbide lamp to enable the new knife mark to be seen easily. Some laboratories also use pieces of soft aluminum tubing to slide over the steel bar. When cut up from many uses, these pieces of tubing are replaceable.

The historic Le Boulenger chronograph is very accurate, but faster operating instruments are being used in many laboratories today. Some means of indicating the bullet's passage past a given point, for the start and stop impulses, must be set up.

Among the several superb instruments of the modern kind in use today are the Potter Counter Chronograph, made by a Long Island, N. Y., engineering firm, and the Danish Weibel Condenser-Chronograph, used at our Norma ammunition factory in Amotfors, Sweden. Other types in use include the Long Recording Chronograph, made about 1951 in Somerville, N. J., but not now available. The Long chronograph permitted the operator to read the velocity directly by using a rotating paper disk calibrated in feet or meters per second. The Long was a modernization of the old Aberdeen Chronograph developed by the U. S. Ordnance Corps in the Aberdeen, Maryland, proving ground during World War I. It used a rotating drum with an inch-wide paper tape curled inside the drum. The drum was grounded, and when the bullet flashed between screens, sparks were emitted by different electrodes on the machine which jumped the gap to the drum. Burning a tiny hole in the paper tape, they made marks which could be read by laying a specially calibrated ruler along the paper. The drum speed was constant, and the sparks were emitted from condensers wired to the screen circuits. The Weibel used in our Norma laboratories is also a condenser chronograph but has direct reading dials, rather than the somewhat time-consuming paper tape and ruler arrangement.

Like other instruments, the Weibel has three basic units, the two "givers" or screens, and the time-measuring instrument. As with other systems, the screens can be placed



Dual set-up of Weibel chronographs is used by Kvale to check velocity at 12.5 M from muzzle, and over 300 M. Power supply is six-volt battery, can be used anywhere.

in different ways, depending on their type and the kind of measuring wanted. Since it is not possible to measure the actual velocity of the bullet at the muzzle with ordinary chronographs, it is the velocity of the bullet at a point halfway between the screens that is recorded. For example, with the first screen or wire at the muzzle, and the second placed ten feet away, the average velocity is the velocity at five feet. With screens 10 and 20 feet from the muzzle, the true velocity recorded is that of the bullet at 15 feet from the muzzle, and so forth. In the U.S., the velocity of rifle bullets is usually measured at 53 feet from the muzzle. The reason for the odd figure is that 50 feet is half the 100-foot distance between screens, plus three feet for the distance from the first screen to the muzzle. Velocities at 78 feet are also sometimes listed, and this is again half the screen separation, 150 feet, plus three feet. Unless a fine wire is used which has almost no area, the first screen must be placed a little distance from the muzzle to avoid being disturbed by the air column which precedes the bullet from the bore.

European laboratories usually measure bullet velocity at 12.5 meters or, for military ammunition, at 25 meters from the muzzle. (Multiply meters by 3.2808 to get feet.) Normal screen separation is ten meters, which means that in the first case screens are placed 7.5 and 17.5 meters from the muzzle; in the second (Continued on page 55)

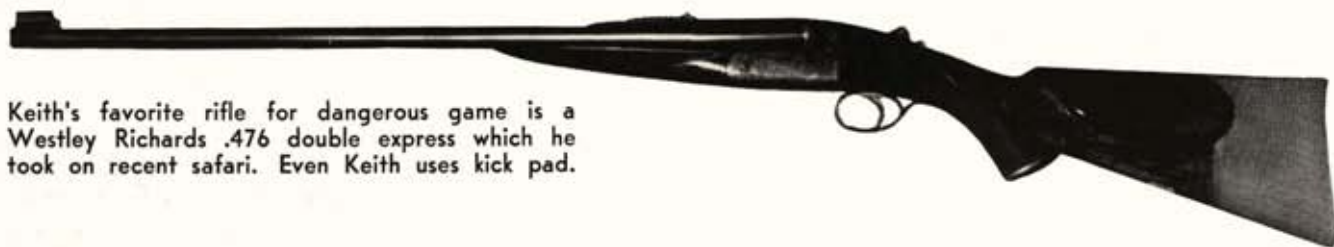




King of beasts is premier animal among profuse big and small game that lures the world's hunters to Africa.

**YOU NEED MORE THAN A  
GUN, A JEEP, AND A ROAD-MAP WHEN  
YOU EQUIP FOR AN AFRICAN  
SAFARI. HERE'S HOW GUNS SHOOTING EDITOR  
ELMER KEITH DID IT**

# Getting Set for



Keith's favorite rifle for dangerous game is a Westley Richards .476 double express which he took on recent safari. Even Keith uses kick pad.

Custom tiger maple FN-actioned .333 OKH caliber rifle was Elmer's "light" gun. Noted hunter recommends 4X glass like Weaver, here in Oneil mounts.





**H**UNTING THE GREAT GAME of Africa has been my lifelong ambition, but it involves the expenditure of two commodities with which I have never been endowed: time, and money. Each year I've thought, "Maybe next year—or the year after." But each year as it rolled around found me still hopeful, still broke, and still busy. So finally I just said, "I'm going!"

After 30 years of guiding and outfitting big game expeditions on this continent, I thought I knew the ropes. But I found that preparation for an African hunt is much more involved than just picking out the guns and ammo.

First, you have to establish the fact that you were officially born. For those of us who were born in times and places where few such records were kept, this can be quite a chore. But it's necessary in order to prove that you are an American citizen. Finally, through sworn depositions from older cousins, I obtained a birth certificate from Missouri.

The next requirement is an international health certificate. This requires that you be vaccinated for smallpox within the last three years, and that you be shot for yellow fever. These two are mandatory. It is also advised that you take the shots (one now and a booster shot 30 days later) for tetanus, and that you protect yourself also against typhoid and para-typhoid. Then, before,

during, and after the hunt, you take malaria shots. Having secured the birth certificate and the health certificate, you must send the birth certificate and ten bucks to the Department of State and apply for passports. Next, you must write to the consulate of the provinces or countries in which you will hunt and obtain visas. With these, you will have completed the official red tape and can consider yourself "armed" so far as the immigration boys are concerned.

Next comes the matter of transportation. First class round trip fare by air from Idaho to Nairobi costs just over \$1800.00 (tourist class, \$1380.00), plus another \$169.00 for 100 pounds of air freight. The outfitters all advise you to bring your rifles and ammunition with you by air rather than sending them four months in advance by ocean steamer and then running the chance of having them still held in Customs at Mombassa when you arrive in Nairobi. Licenses must be secured for the export of ammunition, and your rifles must be registered with the State Department. So much for the formalities.

For rifles, I decided to take two with me by air. One was my custom built, .333 O.K.H. Mauser, barreled by Jack Ashurst, chambering, fitting, and scope mounting by C. M. Oneil, stocking by Iver Henriksen to my design. This rifle is equipped with a latest Series 60 Weaver K-4 scope with my range-finder reticule in Oneil-Hopkins mounts. It has

# Safari

By ELMER KEITH



Conservation of wild game is important work in Africa. Here young rhino is hog-tied to be dosed with medicine. Keith numbered rhino among "big five" he hunted.





Hinged floorplate of Rigby Mauser magazine permits dropping soft nosed rounds, loading with solids, while still covering wild animal with shell in the chamber of weapon.



Mannlicher-Schoenauer was used by Keith's good friend, Gerrit Forbes. Small 6.5 mm has been used for elephant, is not recommended. Bigger 9.5 mm (above) is good for lion, other medium sized but durable game. High scope permits iron sight use in emergency facing charge. Below, Cogswell & Harrison with Parker-Hale cocking piece sight is typical of rifles for Africa.



no other sights, but I took along an extra scope, just in case one should get damaged on the trip. This rifle has a long 26" straight taper barrel of quite light weight, but is surprisingly accurate, usually staying within one minute of angle with either 250 grain Barnes bullets or 300 grain I.C.I. steel jacket bullets, backed with 60 grains of 4350 powder. For Africa, because of the excessive heat, I have loaded 58 grains of 4350 instead of 60 grains. I packed 200 rounds of 300 grain, mostly soft nose but with some 30 or 40 rounds of solids for thick-hided game. After using and seeing this cartridge used with 300 grain slugs on about all American game, I have every confidence in it for my light rifle for the plains game of Africa.

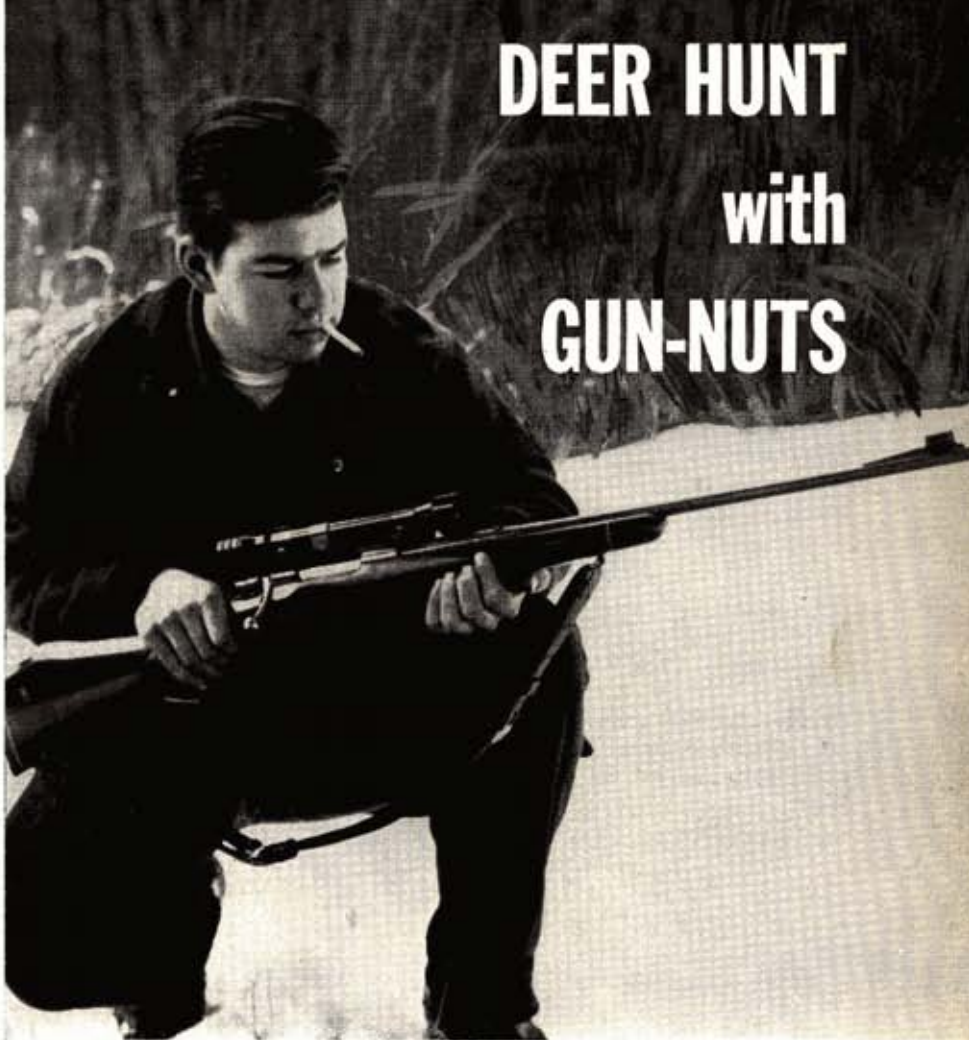
I will carry the .333 sighted for 200 yards with the upper horizontal wire, using 300 grain ammunition. With the six-minute spacing between top and bottom cross wire in this Weaver scope reticle, I can handle shots to extreme long range if necessary. I have done and seen a lot of big game shooting over the last 30 years, and I don't expect this trip to be very much different, so far as rifle and bullet performance are concerned. I intend to do my utmost for clean one-shot kills wherever possible. The .333 O.K.H. should handle all plains game; and, with solids, it should be good for finishing a wounded elephant or other game with brain shots, and be good for hippo or lion as well.

For the second rifle, I chose a best-quality Westley Richards, double hammerless ejector, with 26" barrels and a weight of 10½ pounds. I bought this rifle second hand some 20 years ago in preparation for this trip. It is perfect inside and very good outside. It has the hand-detachable locks and single trigger, and it fits me perfectly. I have used it to kill one big bull bison and thoroughly tested it out to 550 yards. At 60 yards, bullets from the two barrels usually cut each other or land within a half inch of each other, and out at 550 yards it drops one from each barrel within three inches of the other. This is about the finest accuracy I have ever obtained from a double rifle. It is equipped with fine, small bead, regular front sight in a folding hood and also a big white enamel jack sight for jungle or close range fast work. Rear sight is the usual wide-angle British V with four folding leaves sighted from 100 to 500 yards, and I know where it shoots at close (Continued on page 48)



Author Hanson on stand during deer hunt involving five Canadian "gun nuts" and their customized, highly individualized sporters and loads.

# DEER HUNT with GUN-NUTS



## DIFFERENCES OF OPINION IN CHOOSING CUSTOM GUNS FOR BIG GAME HUNT SHOW INDIVIDUALITY OF FIVE CANADIAN RIFLE CRANKS

By R. M. HANSON

WE DROVE THE LAST of the rifle barrels into the frozen earth as dusk was falling and in a few minutes the tent was secure. In a few minutes more the stove was up and a fire lighted. We were in the deer country and it was the last week in November. We had a week in which to take our deer.

The four of us had planned the trip very carefully, and, knowing that zero temperatures or below might be encountered, we had discarded the wooden tent pegs as impractical. In searching around for some metal substitutes, one of the party, Ian Dingwall who is a custom gunsmith in Vancouver, British Columbia, had remembered that he had dozens of shot out rifle barrels in the back of his shop. An hour spent in knocking off ramps and sights and we had all the stakes we needed.

We had chosen the time primarily for the doe season. Due to the good work of the Provincial Game Commission, the Game Biologists, and their excellent staffs, we have a variable doe season, which is generally the last week, or the last two weeks, of the regular hunting season. The time, duration, and areas are determined by the kill during the regular buck season, the amount of forage available, and the severity of the weather. The Game Commission is also empowered to throw open certain areas for a no-limit, any-sex season where reports indicate that the number of deer exceed the forage available for them. This practice helps to prevent excessive "winter kill" by starvation and disease, results in more deer, bigger deer, and healthier deer. At the time of this trip we were allowed two deer each, one of which





Custom-built 8 mm on trimmed '98 Mauser action weighs under 6 lbs. with sling. Scope is 2 1/2X Leupold.

Another Mauser action but in .30-06, with a Spanish walnut stock and Bushnell 3X scope.



Author's own choice was Crown Grade Husqvarna '06 and Smith 4X scope in Stith Master mount.



Ross took this Mauser-action .35 Whelen, Bishop-stocked, with 2 1/2X Texan scope on Echo side mounts.



might be a doe.

The rifles we carried were selected with a great deal of forethought. Knowing the district, we knew that some brush shots were likely to be made, which ruled out the light fast calibers. There would also be open shots, as the tops of the ridges were somewhat sparsely timbered. There might even be shots from the side of one ridge over to the next one, so we wanted rifles that would shoot fairly flat for three or four hundred yards. Furthermore, there was the remote possibility that we might run into elk. We chose our rifles accordingly.

Ian Dingwall put his faith in a lovely lightweight of his own construction. He cut an 8 mm German machine gun barrel down to minimum and fitted it to a pared and lightened 98 Mauser action. This was glass bedded into a top-grade blank of light Oregon myrtle which was cut and shaped to his own personal measurements. He then designed and built a scope mount that was completely adjustable for windage and elevation. This mount held a Leupold 2½ X Pioneer within 1/16 inch of the barrel and just clear of the bolt. This rifle, complete with mount, scope, and a well oiled sling, weighs 5 pounds and 10 ounces.

We all hand load, and Ian had worked up a load for the 8 mm, driving a 175 Sierra bullet at about 2700 feet per second. This load in this rifle would group in an inch at a hundred yards and, due to the excellent shaping and balance of the stock, the recoil was negligible.

Bob Ross used his .35 Whelen for the trip. I had always regarded this gun as being too big for deer, but subsequent events and conditions proved me very wrong. Ian had built the gun for him, using a 9 mm German barrel in a modified Mauser 98 action, bedded into a Bishop stock. He fitted it with an Echo Side Mount holding

a 2½ X Texan scope with medium crosshairs. Bob loaded his cartridges with 250 grain bullets which he was pushing out at over 2600 feet per second; plenty fast for that bullet.

Jim Stewart had the most handsome rifle I have ever seen: a .30-06 sporter, amazingly accurate. Ian had built it for him, using a Douglas barrel, again fitted to a Mauser 98 action. The stock was one of the best pieces of Spanish Claro walnut that ever came out of Spain. Medium light in color, it is tightly fiddlebacked for its full length on both sides. There are no ornate carvings, inlays, or other circus-horse trappings about it. Ian checkered it in a simple fleur-de-lis pattern that brought out the natural beauty of the wood and added to the symmetry of line and balance obtained in the shaping of the stock. Jim was loading an even 50 grains of 4064 powder behind a 180 grain Sierra bullet. This load and rifle has repeatedly made groups of 5 shots in an inch. It will do it hot, cold, or lukewarm, so the barrel must be perfectly concentric and perfectly bedded. With a little less powder, this rifle has closed groups down to 5/16 of an inch. For the hunting trip, it was wearing a Stith Master mount and a 3X Bushnell with medium crosshair.

I was the only "standard" man of the four. Ian got me a Crown Grade Husqvarna with better than average walnut on it. Some fiddleback, but mostly an even mottling of light and dark wood with an oil finish. It was in .30-06, which was about the right size for this trip. The checkering is good and the blueing job better than good. I liked the lightened Mauser action and the silent shotgun-type safety. After checking the bedding, he cut the butt to fit me and put on a Pachmayr rifle pad that sticks to my hunting jacket very nicely. I added a Stith Master mount and a Stith Master 4X scope, which (Continued on page 57)



Ian Dingwall, custom gunsmith,  
"best camp cook in captivity."



(Left to right) Ian Dingwall and his 8 mm lightweight; Bob Ross with his .35 Whelen; Jim Stewart and his .30-06 pose with five trophies of any-deer hunt.



# GUNS MAGAZINE

## 3<sup>RD</sup> POLICE AWARD

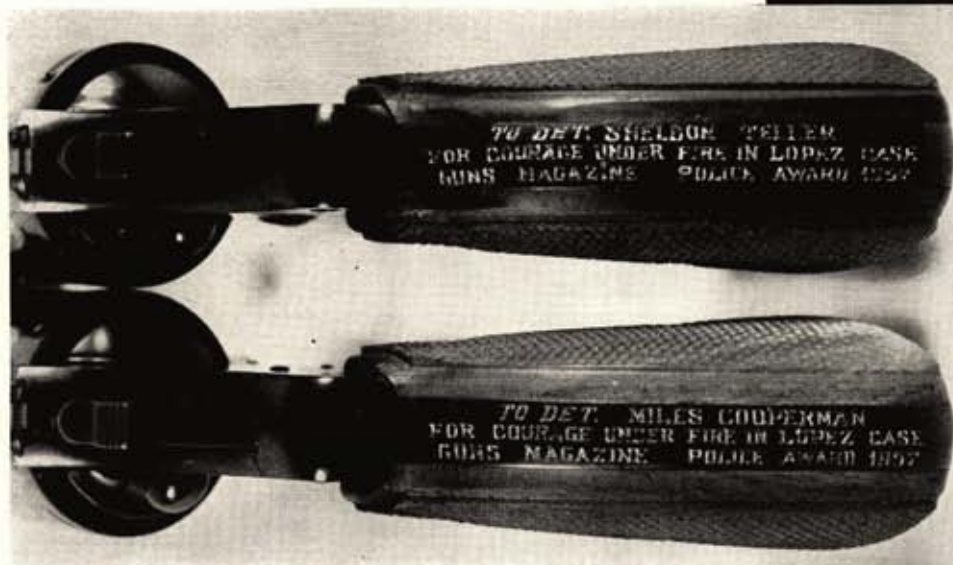


CHICAGO DETECTIVES WIN TOP HONORS IN NATIONAL  
POLICE AWARD PROGRAM. WHO DO YOU NOMINATE FOR 1958?



Colt Detective Special .38s were selected by two Chicago officers.

Inscriptions on Colts detailed act for which narcotics squad detectives were named. Third award nominations are being received for 1958 honor.



**F**OR THEIR HEROIC victory in a fatal gun duel with a vicious dope peddler, Chicago detectives Miles Cooperman and Sheldon Teller were the second winners in the annual police recognition award program sponsored by GUNS magazine. Nominations are being received for 1958 award winners. Nominees may be city policemen, sheriff's police, or members of a state police unit, in your locality or elsewhere. Basis for nomination may be an act of personal heroism involving gunplay, or work in a local hunter-safety program, or support of adult or junior school of shooting instruction. Any socially useful act involving guns will be considered. Watch this magazine for instructions for submission of nominations.

Cooperman (left), Teller get guns from Chicago Crime Commission head Virgil Petersen. Edwards of Guns delivered .38s.





Dean of Spanish gunmakers Agustin Aranzabel holds with just pride one of the top quality side-by doubles made by his extensive Eibar works.

**IN THIS LITTLE SPANISH  
TOWN, THE TRADITION OF FINE  
GUN CRAFTSMANSHIP LIVES ON**

# **The GUNSMITHS OF EIBAR**

By COLONEL CHARLES ASKINS

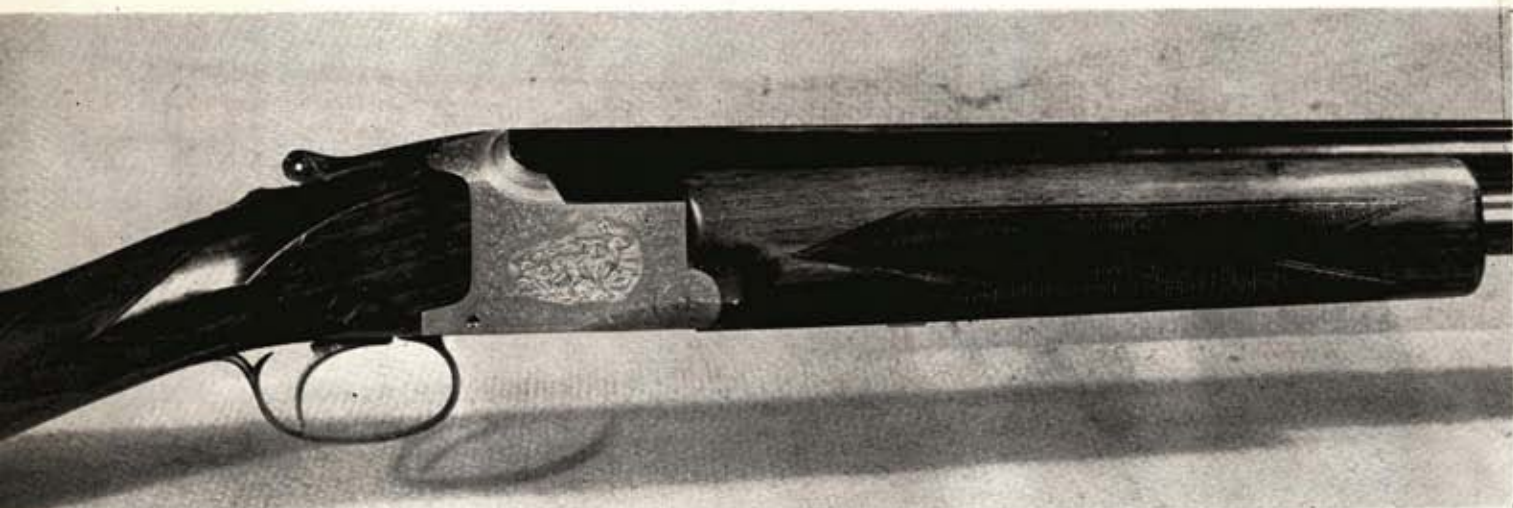


Pocket Astra now widely sold in U.S. is far superior to guns of '20s that gave the Eibar industry a bad name.

**G**UNS FROM EIBAR are sold all over the world, but the town isn't much to look at. You can lope through the place in twice the time it takes to saddle a tame bronc. And if you are searching for a sight of shootin' irons in the shop windows, your myopia will return thrice over before you spot a weapon. Building firearms is such old hat with your Eibarese that he doesn't bother to stack 'em up in display. Besides, his product isn't for home consumption. Eibar doubles reach such places as Chicago, Hong Kong, Alexandria, Karachi, and Buenos Aires. One manufacturer is now shipping to twenty-six foreign countries.

Eibar, perched like an eagle's aerie high in the Spanish Pyrenees, sits athwart the road from San Sebastian, summer watering place of Spain's nobility, to Bilbao, the little Pittsburgh of the Iberian Peninsula. This Basque town is one of the ranking arms center of the world. It is quite as well known as Birmingham and Liege, as New Haven and Ferlach. But you couldn't tell it by taking a quick gander. At first





Handsome over-under Browning scattergun was obtained by Askins while abroad. In poor condition, it was rebuilt, barreled, stocked, and engraved in Spain.

blush it looks about as imposing as a middle-western U.S. whistle-stop, and about as interesting. The single street winds and meanders along the canyon floor, passing dirty, time-stained buildings, and always it seems to rain in Eibar. For beauty you must glance upward to the verdant hills, eternally green, bathed twelve months of the year in the steady drizzle of rain. Or else step into the nearest gunsmithery and feast your eyes on some of the sweetest ordnance made anywhere today.

It is there and it doesn't much matter which doorway you select. Eibar has 62 gun makers. These are major firms. It has a higher per capita population of gunsmiths than any other city in the world. If one does not build shooting irons he is related to those who do; and if, maybe, he manufactures bicycles, or sewing machines, or machine tools, then he keeps his hand in by owning stock in gun-making firms. Artisans there are who are 'smiths, and their fathers before them—and their father's fathers. Don Estaban Orbea, *alcalde del pueblo*, is the sixth generation of a gun-building family. Oddly enough, these days, he is the largest manufacturer of bicycles in Spain, making no sporting arms. He does, however, turn out more empty primed shotshells than anyone else in Iberia.

Among the 62 firms, the larger—there are a half-dozen big fellows—employ hundreds of gunmakers, while others work in a single room and em-

ploy no more than a dozen mechanics. Some plants are so new and modern as to put to shame the grimy old Civil-War-vintage heaps of masonry to be seen in our own New Haven and Hartford. Others are limited to a single room.

The best stock-maker in Eibar is at Jardines 8. When you finally search it out with the help of various friendly Eibarese, Jardines 8 is a tumble-down tenement clinging precariously to the canyon. At the far end of a littered and dimly lighted hall is a closed door. A light rapping will bring Pedro Arrazabalaga who, with the restraint always accorded a stranger, will bow you inside. The place, a single room, is a reclaimed family quarters. Here is one of the great stockers of a gun-building town. I have never found better; indeed, have yet to see anyone approach his artistry. If your Spanish is adequate, you and Pedro can get to the business of selecting from a great pile of cured blanks the piece you want for your smoothbore. For forty bucks, Arrazabalaga has turned out for me buttstocks that far outshine anything I have ever seen in finest Circassian. The wood is native walnut, grown, cured, and made ready in Spain.

The wizardry of his chisel in inletting is a treat to the eye, a craftsmanship that gives of no quarter to Purdey's finest. But aside from stock beauty, finish, inletting, and fit, most perfect is the artistry of the checkering. Arrazabalaga checkers 26 lines to

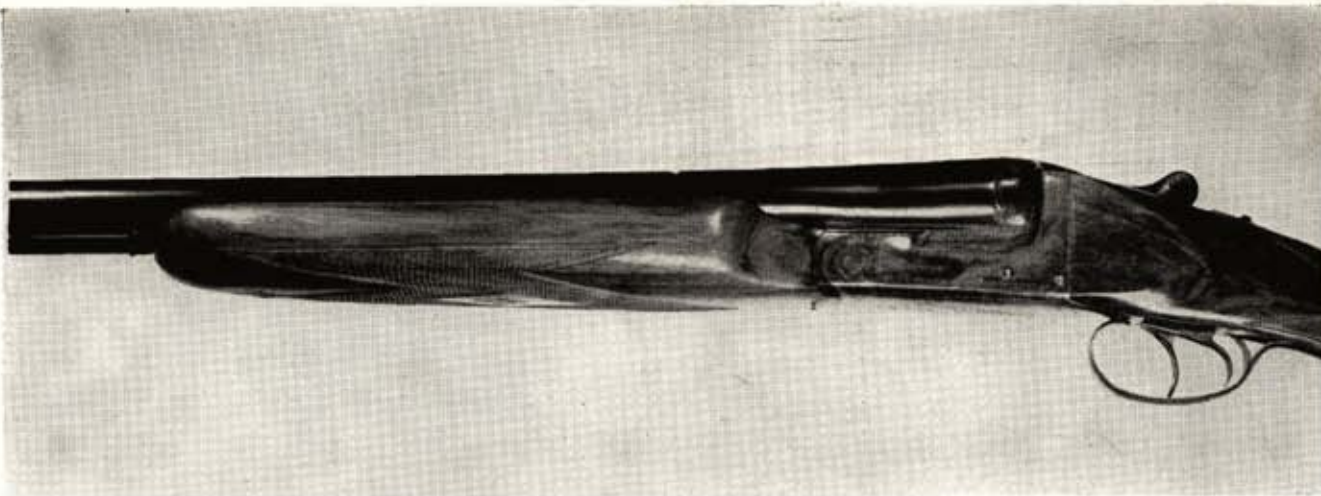
the inch and each little diamond viewed under the glass is as uniformly like its brothers as though whittled by the Great Engraver himself. And all this magnificent work is done in one dirty, overcrowded little room high above the tortuous street that is Eibar's main drag.

There is a gun-maker guild, but not all smiths are members. The Basque is the Yankee of Spain. He is as stubborn as two mules. Contrary and recalcitrant, he cannot be driven and is led with difficulty. He is as independent as a Maine lobsterman, as liberty-loving as an unreconstructed Rebel, and whatever he does will be his own best thinking, not influenced by the urgings of his neighbors or the logic of his elders. Despite this, many Eibar gun-builders subscribe to the guild.

Those who are members do a great deal of scratching of each other's backs. One firm will specialize in forging actions, another limits their activity to rough-turning and semi-finishing barrels, still a third does all the lock work. There is a government proof-house in Eibar. It is under the charge of Col. Juan Alonzo Areyza, an officer of the Ordnance Corps. All weapons must pass two proofs before acceptance. I have visited the proof house innumerable times and watched operations there. First proof and the second, the definitive proof, are both affixed by the government.

Eibar is a manufactory, primarily, of shotguns and pistols. There is a production of rifles but it is trifling.





Handsome magnum ten imported from Spanish guncraftsman Gorosabel by Frank Clark of Cheyenne, Wyoming, is typical of fine Deeley-action Eibar doubles.

Victor Sarasqueta makes a few double express rifles but in small quantity. Down the road toward the sea is a small outfit turning out shoddy little bolt-action clip-fed rifles, chambered for the 9 mm Bergmann cartridge, a pistol round. Output funnels into the Spanish security police. Franco looks with jaundiced eye on the manufacture of rifled arms, remembering the civil war of 1936-39. He elects to keep rifle manufacture in his governmental arsenal at La Coruna where he turns out a faithful copy of the Mauser K98, in 7.92 mm.

The largest manufacturer of pistols is Star Bonifacio Echeverria. The outfit builds a .22 Target automatic. They also copy the Colt M1911, in 9 mm Parabellum and 9 mm Bergmann, .38 Super, and .45 ACP. There is a pocket automatic, as well, in .32 ACP and .380 ACP.

These Star automatics deserve a word in passing. Isaac Irusta, energetic and canny general manager of Star, determined directly after World War II that the firm needed a new pocket self-loader. His engineers beat the bushes and assembled a round half-dozen of the world's best auto pistols. From these the present Star was fashioned and a fine arm it is! The receiver bears a marked resemblance to the Colt M1911; the slide slips off with a latch borrowed from the Walther P-38; the barrel hinges to the receiver through a link-and-lug arrangement filched from the big Browning (Continued on page 62)



Magnificently engraved Kersten-bolted AYA O/U is only "2nd grade" gun of major Eibar gun factory. Single trigger is U.S. importer design. Below, clip spur handily helps release takedown muzzle collar on popular 9 mm Astra pistol.





# Gun OF THE MONTH

By HENRY CURTIS MORRIS



THE OLD • THE NEW • THE UNUSUAL



Delicate engraving on unusual American double was laid out by the purchaser in careful sketch.



Special 16 gauge Lefevre double is in fine leather case with compartments for rods, shells, and shotgun taken down. Light single-trigger gun is in very fine condition.

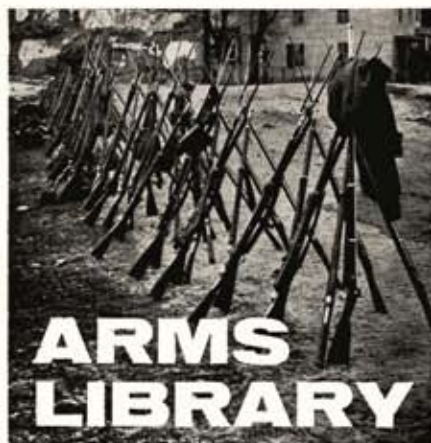
**T**HIS HANDSOME DOUBLE 16 gauge Lefevre shotgun is one of the few American "tailor made" shotguns. It was built in 1902 by Lefevre, before he sold out to the Lefevre Arms Co., for a friend of mine named Lewis, of Reno, Nevada. Lewis was treasurer of the narrow gauge N.C. & O. railroad. His "order" was a full size India ink drawing showing the most minute details, such as the engraving on the action and the graining of the circassian walnut stock. The barrels were specially ordered from Krupp, of fluid steel, a rarity in those days, as was the ejector, and the single trigger.

The first gun made was carelessly handled in transit and arrived with rusty barrels and a split stock because some package with liquid in it had been on top of the gun case. The double was returned and another ordered. However, as it would have taken several months to get new barrels from Germany, Lefevre had the first gun completely done over and shipped it back to Lewis, who did not cancel the repeat order. When the second gun came, Lewis

found he was well satisfied with the first and so offered the second one to me for what he was charged for it which, as I remember, was \$125.00. I was very happy to be able to buy the gun and have used it with real pleasure ever since.

Mr. Lewis was a crack shot with small bore pistol and rifle, with which he shot quail and sage hen on the wing and seldom missed. His father was one of the survivors of the Donner Lake disaster. Their first house in California was of adobe, in one of the placer camps, and the mud was liberally sprinkled with particles of gold, some of which he dug out with his knife. He and I did a lot of target practice together with small-bore guns and he taught me much about handling them. Though the gun is a beautiful weapon, I would almost rather have the drawing which Lewis made to show Lefevre exactly how the gun should be built. It was a wonderful piece of most expert "penmanship" and I doubt if it has ever been equalled under such circumstances.





## ARMS LIBRARY

**DOC W. F. CARVER:**  
**SPIRIT GUN OF THE WEST**  
 By Raymond W. Thorp  
 (Arthur H. Clark Co., Glendale,  
 California, \$8.50)

Doc Carver was one of the truly great figures in the shooting history of this country and of the world, and it is high time shooters of today made his acquaintance. Only one man could have written this book, because only one man had access to the Carver papers, including, apparently, an autobiographical manuscript. That man was Raymond Thorp, the author of this book; and Thorp has done a thorough job of reporting the Carver story.

It is too bad that the job could not have been done with more discrimination, with closer attention to probabilities, possibilities, and actual facts. Footnoting, as the author frequently does, that certain statements come "From the Mss. of Doc Carver, and from letter to the author from Carver," does not verify contradictions of known fact; it merely proves that Carver, like most of us, tended to embroider his stories. Carver was a great shooter, a colorful character. His records are amazing enough to stand without embellishment by himself or others. That those records have been bettered since Carver's day by men shooting lighter guns and better ammunition does not lessen the magnitude of Carver's achievement; but it is useless to deny those later records. Such denials, and the author's easy acceptance of typical frontier-style tall tales, by Carver, by Wild Bill Hickok, and others, merely open the book to question as to the author's credulity.

The facts are here, and no library pretending to include the history of shooting can be without this book. The reader will simply have to winnow fact from legend, armed with the knowledge that the writer "fell in love with his subject."—EBM.

**MAUSER BOLT RIFLES**  
 By Ludwig Olsen  
 (Fadco Publishing Co., \$12.50)

The long-awaited book on Mauser bolt-action rifles is a disappointment, at least to this reviewer. Although printed on fine, heavy, glossy paper, the illustrations are poor. Money has been spent on book making, rather than on presenting desirable and interesting information to the collector and arms student. The result is a volume not significantly improved over the earlier, cheaply-printed private edition books on the same subject by the same author.

But there are other, more serious critical objections. For example, the illustrative plates with one or two exceptions are made of photographs cut up and pasted down on white paper, and the dim cut edge of the photo can be seen. Captions which could be interesting are generally merely labels, and are typewritten, contrasting unhappily with the attractive, legible type in which the rest of the book is set. Serious errors of caption are also to be noticed, such as the photo of the M1898-type Mauser sporter with shotgun barrel below which the caption says, "with tubular magazine." Some of the illustrations are badly marked with checkerboard "moiré," the blotchy effect which is produced by unskilled copying of previously published illustrations. Ironically, the most marked pictures are those of modern commercially-available sporting rifle versions of the Mauser: Sakos, FI-FN's, and Thelson CZ rifles, photos of which would have been gladly supplied by the importers on request.

In other respects, the book is deficient in details which one would justifiably expect to see in it. The illustration of the exceedingly rare Mauser-Norris gun is only a big drawing, copied from the official History of Mauser Works. But credit and thanks are given in the book to the Smithsonian Institution in Washington, and the reader is referred to the Mauser-Norris rifle which they have on display there! For \$2.35 a photo of this gun could have been obtained, and a well-invested two bucks it would be, to offer the first photograph published in this century of the Mauser-Norris! Other photos show the Mauser made about 1895 in 6 mm Lee caliber. Yet not a word of comment exists in the text about this unusual arm, nor anything of the fact George Luger presented a "bolt action" rifle to the U.S. Navy ordnance test board about that time in 6 mm caliber—probably such a gun. Further lacking is any text detail on the enigmatic Model 1929 Mauser bolt action, a close-up of which is one of the best photos in the book, and used full-page. While it seems to have been a truly improved Mauser, how and why and in what manner is not stated in the book. A round dozen or so pages is also devoted to printing ballistics of Mauser ammunition. This could have been reduced to a single page of small type in the appendix for reference.

Olsen's first work, well organized though incomplete, has been unobtainable for years and this new book has been awaited for a long time by this reviewer, with anticipation and great interest. Now that we have it, it is, to me, a great disappointment, personally and professionally.—WBE.

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## GUN RACK



GUNS Technical Staff

### Die Neueste Walther Pistole Model "P-38"

**O**PPORTUNITIES to test the new Walther P-38 automatic 9 mm double action pistols have been unusually easy for us. The members of the Gun Tour visited Walther's factory in Germany in October, 1957. There we shot the military P-38 being produced for the west German army. To judge from consecutive serial numbers, a lot of 5000 was in the works at the time.

Barrels are forged, then the rifle tubes sleeved in and held by a cross pin at the breech. The GI barrels were rough outside, with the forging flashing still visible under the dull finish. Slides were coarsely machined, all the final polishing operation being omitted. Slide stamping included the German Army contract order code number, and the mark such as "6/57" denoting manufacture in June of 1957.

Guns built during the preceding couple of months were being tested on the underground firing range, where Herr Rau, one of Germany's distinguished pistol shooters, was target-testing each pistol for the Bundeswehr inspector. Herr Rau used an arm rest. The targets, different from the U.S. bullseye targets, were at 25 meters. At that time I ordered a pistol, but, on returning to the U.S., the first post-war P-38 came from Sam Cummings, of Interarmco, who plans to market these new guns in the U.S. The Interarmco sample is a commercial weapon, numbered "001002 E," apparently the second of the commercial production.

There are differences between this newest of the world famous Walther line and its equally famous predecessors. Current military and commercial production have light alloy frames. Apparently the few made during the war for the Luftwaffe by Walther proved to be satisfactory, and now alloy frames are standard. Parenthetically, the Walther is the only one of the NATO-standard pistols which has a light alloy frame, unless one includes the Colt Commander. The commercial P-38 will, doubtless, be a strong contender in international markets for NATO-standard weapons.

The new P-38 (Cummings wants to call it "P-58") is not fully interchangeable with wartime guns. The barrels of old and new will not interchange. The old barrels will fit the new slide and frame: the new barrel is too beefy at the breech to fit the old slide. Unless manufacturing changes are made, you will not be able to buy a new barrel to fit your old P-38. Second difference is in the finish. Both old and new are chemical finishes, but the old, in commercial dress, had a rich quality of blue which approximated a light heat-blue finish. The present finish is a nitrate black.

Comparing the new with my sample of 1941 military, which is very finely finished to commercial standards, polished inside, and closely machined, I incline to favor the old

finish. On my commercial pistol sent directly from Walther, 001026E, there were some spots. Yet the present gun does make a very handsome effect with its new-design checkered black grips and shiny polished finish. The slide has some slight improvement in profiling and contour: along the top is a plate, which is polished flat and looks nice on the new gun. Beside it, the slide is shaped up into a set of tiny ribs, one to each side. They make a very pleasing style contrast, and serve to direct the attention to the "newer looking" gun. The slide serrations, grasping grooves, are fewer in number on the new gun, and the safety lever on the slide has fewer grooves. The frame at the trigger pin is reinforced.

Inside, the safety has been strengthened by closer tolerances and less cutting away. In principle it appears to be the same. Pistol No. 2 had a very stiff safety that could be jammed in the "safe" position, much to the embarrassment of the shooter. On my pistol bought directly from Walther, the safety worked smoothly. Double action on both pistols is very smooth. Single action pull is likewise good.

Shooting the new pistol, No. 2, on the range at 20 yards, revealed inherently good accuracy. However, the gun in its fitting between slide, barrel, and frame, was definitely not machined as snugly as my wartime "commercially finished" pistol. I found that putting them into the black was not too difficult, though, with either pistol—old or new. Grasping the new pistol by the barrel, and tugging, I found it possible to shake it considerably in the slide and frame. The "commercially finished" 1941er was much more rigid. While the practical objections will prove small, the loose gaps between barrel, slide, and frame, which can be seen at the front of the gun, will make serious shooters question the new P-38's usefulness as a centerfire match pistol. It is, of course, equal to or superior to most of the world's issue service pistols.

Cummings, as he has also done with the Manurhin-made PP and PPK pistols, will obtain grooved trigger guns from Walther with improved sights made to American designs. At present, the sights are square-



Commercial Walther has new-design grips, minor improvements in works.





Old P-38 shows closer slide - barrel fitting but new guns (right) shoot well.

topped front blades, with deep U notches at rear. Cummings, if he introduces a "Mark II" or other version of the P-38, will offer it with a square notch rear and perhaps a wider blade front sight for faster visibility. A grooved trigger may also be introduced, though trigger grooving, sold on the basis of "non slip," is habitually in the direction of finger slippage instead of against it. A smart move might be to checker the trigger or knurl it sharply.

For target use, the P-38 is one gun that needs a set of custom grips. For example, I have a long trigger finger, and although the 9 mm Norma loads I was shooting did not kick objectionably, they did demand I grip the gun very firmly for best shooting. But in that position the tendency to shove my finger far inside the guard had to be consciously resisted. The result was a strained shooting position. When I relaxed, I called the shots into the black. When I got careless and threw one out from finger side pressure, I got self-conscious. When I got self-conscious and started to "correct the bad habits," bullets went all over the paper. If somebody like Steve Herrett can work up a grip that will help shooters with long trigger fingers, the new P-38 should be exceedingly popular.

Summing up, the new gun is well finished. It could be better, and Walther may go to the old-style blue if popular demand requires it. The new gun is accurate. But target shooters may demand—and get—better fitting between barrel, slide, frame. It is comfortable and easy to shoot, and the 9 mm caliber, while calculated for serious work, is light on kick. Norma's ammo functions in these guns very accurately. As a newcomer to the U.S. market, the postwar P-38 will find many shooters eager to try it out. It is the only double action 9 mm automatic pistol regularly in production, to be available on the American market. Price from Interarmco is expected to be about \$80.

### Buhmiller and the 6 mm

The following letter from J. R. Buhmiller throws some new light on 6 mm loads and velocities:

"I have been home a few weeks and have been trying to get some straight dope on the velocity of the 6 mm. Pike bought a new Hollywood chronograph and made a check of his loads in comparison with some other standard cartridges, and came up with the announcement that the velocities of the Swift and this 6 mm were the same and that there was very little, if any, difference between them. He did not have his wires spaced correctly to give exact feet per second, but the test was comparative. He tried

Swift rifles with 24, 25 and 26 inch barrels and said there was no great difference. I don't know how he reconciled his other velocities, or what other calibers he checked. He was getting between 3800 and 3900 feet-per-second for his Swift, and about the same for the 6 mm.

"A few days ago, I got Pike over here, and we made some more tests. We fired a 24" .30-06 using Remington 180 Gr. BP bullet, and got 2750 f.p.s. Then got 3850 and 3795 for the Swift with one low reading of 3650, probably due to a wire not breaking instantly (from bullet impact) and the 6 mm got 3825 and 3875 with one high reading of 4000, probably due to the other wire not breaking cleanly. I didn't feel too good about these tests, and we tried to figure out what we had been doing wrong, and couldn't arrive at anything.

"This evening Pike got over here again and we had another short session. First he adjusted the distance of his contacts slightly, to give more nearly correct readings at Swift velocities, and we took some more comparative readings, as follows:

First shot .300 Imp. Magnum, 82 grs. 4350, 150 Sierra bullet, Weatherby lists this load as giving 3530 FS in 26 inch barrel. Our gun had 24" barrel, chronograph gave 3450.

Second shot 6 mm case-forming load, machine gun powder, 90 gr. bullet, 3100 f.p.s.

Third shot full load, case packed full MG powder 105 gr. Speer bullet, 4000. Fourth shot, Swift 48 gr. Rem. Hi-Speed—4000.

Fifth shot, 6 mm same as third shot above—4000.

Sixth shot, Swift same as fourth shot—4050.

The 6 mm rifle has 27" barrel.

"We used the outfit as carefully as we know how, and if the chronograph is any good, these results should be trustworthy. We plan on some more tests with the 6 mm, and also the 6.5 mm, but this is busy season of the year for Pike, and it may be a few days later.

"I was not expecting to get this velocity; I really expected around 3600-3700. These loads probably will burn out a barrel quickly. For those who want to save the barrel more than they want to kill baboons at ¼ mile, they can cut the load. Hope to make some more range tests soon, too, but it seems to me other shooters should take up this caliber and not expect me to do it all. I'm busy with too many other things.

J. R. Buhmiller  
Kalispell, Montana

(Continued on page 64)

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**MAYNARD P. BUEHLER**  
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## HEBACKS HIS CLAIMS WITH BULLETS

(Continued from page 14)

The Bodrie act required a bullet trap, big enough to insure safety for hip shooting. There was no such trap on the market, and having one made to order would cost too much money. A friend, Joe Nikoden of the Detroit Bullet Trap Company, solved that problem by designing and building a 6'x3' trap that could be carried in the trunk of Joe's car. The actual trap face was 3'x3'6", big enough and to spare for Bodrie bullets. This was the pilot model of the present Detroit Trap Company's Exhibition Shooter's Trap, and Joe's is still in service.

The first exhibition was a success; so much so that it started a chain reaction of other engagements. In six months, Bodrie had paid for all of his guns and equipment and made a nice profit. But he still had spare time, and to Joe Bodrie, spare time means only more shooting.

With the aid of his Union and the National Rifle Association, Bodrie set up a cluster of Hunter Safety schools. Schools, the Boy Scouts, and other organizations supplied him with pupils. He organized and taught combat pistol classes in 23 cities and towns in his area. His charge was 25c per pupil. His daily schedule read like a commuter's nightmare: 10:00 AM to 12:00, teach three police classes in combat shooting; 1:00 PM to 3:00, teach three other police department classes; 4:00 to 6:00, drive to a neighboring city and teach a class in Hunter Safety; 6:30 to 8:30, drive to another city and teach another Hunter Safety class; 8:30 to 12:00, an exhibition—or, failing that, classes in night shooting for police. In his spare time, Joe practiced.

Up and down the country, people were talking now about this soft-spoken man who did such amazing things with weapons. Representatives of the Colt's Patent Firearms Company made some inquiries, watched Bodrie shoot, liked what they saw and made him an offer. Bodrie accepted. For the first time in 120 years, Colt's had a professional exhibition shooter on their payroll. He had been a Colt man from the very beginning, and this was his chance to shoot a lot, sell Colt guns, promote shooting, and travel. This last was important, for it meant meeting shooters all over the country. Quick draw

was a feature of his performances. He practiced it, studied and learned from every quick-draw expert he could track down. He picked up gun twirling from Dick Jones, better known as "Buffalo Bill, Jr." So strongly right handed that he was actually clumsy with his left, Bodrie fought this handicap with practice and more practice until, with guns, he is ambidextrous, as fast with one hand as with the other. And that is fast!

Bodrie was moving fast, doing five shows a day for Colt's, meeting gun enthusiasts by the thousands. The quick-draw fad was on now, and every locality had its champion. Bodrie shot with them and against them. He learned "the road-agent spin," "the Curley Bill twirl," and four different versions of the "border shift." He worked with double-actions and with the popular Single Actions. He tried every trick in the book, and perfected most of them. His shows consisted of a full half-hour packed with shooting, a different stunt every minute, as fast as Bodrie could move and talk. Those shows opened the eyes of a lot of men who thought they were fast with weapons.

One of Bodrie's stunts won him a lot of publicity simply because it was the most graphic proof ever devised of sheer gun speed. Bodrie would invite a person out of his audience to stand facing him, hands out in front, waist high and about six inches apart. "When you see me start to move," Bodrie would say, "you clap your hands together. Do it fast. See if you can clap your hands before I can draw and shoot you." It looked easy. No one would believe that Bodrie, standing at ease with his gun snug in its holster, could whip that gun up and level before his opponent could perform the simple single movement of bringing his two hands together. But Bodrie does it. I used to laugh at the old western gunfighter stories in which the hero's hands "blurred with incredible speed" as he got his guns into action. Since seeing Bodrie, I'm not laughing.

By this time, claims were coming from many sources about incredible quick-draw performances. This man could draw in half a second, that one in a quarter of a second, this one in a tenth. Timing devices of one kind or another were popping up all over the country to verify these claims. Many of these devices ignored reaction time altogether, measuring time only from the first movement of the gun in the holster to the instant the gun touched a "drawplate" in front of the shooter, or until the gun barrel cut the beam of an electronic eye. Ed McGivern's proved and long-standing records were about the only ones that even considered the detail of a bullet hitting a target. Very few people anywhere were basing their quick-draw claims on actual shoot-out conditions. Even where timing was reasonably accurate, it seldom included anything but the sheer legerdemain of the draw itself, the physical movement.

One of the few timing devices that includes reaction time and bullet accuracy, and perhaps the one timer that most closely simulates actual shoot-out conditions (even including much of the nervous tension), is the one designed and built by Arthur C. Ross, 10223 Garland Rd., Dallas 18, Texas. This timer was described in an article titled "The Target That Shoots Back" in the March, 1957, issue of this magazine. It con-

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sists of a man-size robot, wired to accurate timing devices. Timing starts when the robot's eyes light up. After the eyes light, the shooter must draw, fire, and hit the lethal area on the robot's chest. A striking bullet stops the timer and records elapsed time. If the bullet does not "kill" the robot, the mechanical man actually shoots back at his opponent. Blanks, of course. But if you think this mechanical gunman doesn't give you a fair taste of the tension involved in actual "for keeps" gunplay, you should try it.

This device *does* include the usually ignored factors: reaction time (from the time the target's eyes flash their warning)—lock time (the small but measurable split second of hammer fall)—bullet time (another fragment of time, but measurable)—AND accuracy. Because if you don't hit the killing area, the clock goes right on ticking. You don't score on smoke, or near misses.

Most of the big-claim boys have stayed religiously away from Arthur Ross's timer. Bodrie made a trip to Texas to face it. The story of that meeting is best told in Bodrie's own words, and in a letter from Ross:

"When I first approached the robot, I asked Ross if that robot could kill me. (It had a gun in each hand.) Ross said it could, so I drew and fired five shots at it. Ross said it wasn't turned on yet, and I said, 'My father told me if a man had a gun in his hand and said he could kill me, the thing to do was to shoot first and ask questions later.' The robot was very 'dead' after Joe's greeting; all five slugs hit the vital area.

Bodrie then faced the robot for a timed test. He refused Ross's offer of practice runs. Bodrie said he wouldn't get any practice runs against a real gunman; he'd stand or fall on his first shot.

A problem arose at this point. Bodrie's guns, the ones with which he demonstrates quick draw, are all big caliber. Ross's robot isn't built to shed big caliber bullets. So Bodrie faced the test with a strange gun (Ross's own); a gun not only of different weight, caliber, and balance, but of different make than the ones Bodrie uses. And it should be noted that Ross's gun, the one Bodrie used in the test, was a single-action.

Here, in part, is what Ross wrote about the Bodrie test. "There is another letter in the mail . . . (about) the terrific speed and self-confidence exhibited by you and registered by Rudolph the Robot. This speed is most impressive since it was your very first and only shot on the speed-recorder.

"The 'Fast Draw Shoot' of .45 of one second from the signal to the impact of the bullet on the target, which you registered with your first and only shot, is staggering to the imagination. The amazement of this terrific speed is superseded only by the fact that this record shot was established by you while using a single-action pistol with weight and balance completely different and strange to you. It is my most confident opinion that, using your own familiar pistol and given a reasonable warm-up practice period on this new and different type of target, you are capable of a 'Draw Shoot' speed of less than .40 of a second. This has not been accomplished by any person using any type of pistol, regardless of the amount of practice involved."

In his "other letter," Ross adds: "When the mental reflex action time of approximately .28 of a second is subtracted from

your time of .45 of a second total time, this leaves .17 of a second for the physical action of drawing and shooting the pistol accurately."

On another timing device, using his own single-action Colt, Bodrie actually registered the same time, .45 second, for two shots, both lethal hits. But he is proudest of his record on the Ross timer. He says Rudolph the Robot is the nearest thing yet devised to an accurate timer of true combat speed.

"But," he adds, "no timer can measure a man's guts. I think I'm the fastest gun alive and am willing to try to prove it against anyone, any time. I think, with my equipment, I'm probably faster than any of the old-time gunhawks. But if I had to draw against them, they'd probably kill me. They were killers; I'm just a shooter."

I asked Bodrie once, "Who was the deadliest man in the west?" Bodrie said dryly, "The man with a shotgun!" The answer is typical of Bodrie's practical approach to questions of combat shooting. He believes in hits. A man with a shotgun may not be a romantic figure, but he's pretty likely to hit something!

Bodrie had made a pretty thorough study of the records of the Old West gunmen, and he has his own ideas about them. High on his list is the name of John Wesley Hardin. He doesn't know how fast the Texas preacher's boy really was (who does?), but Bodrie is convinced that Hardin had plenty of that "willingness to kill." "And," Bodrie says, "he must've been a fair hand with a six-pistol, too. He went to the well pretty often!"

Bodrie is now devoting a considerable part of his time and effort to the promotion, on a national scale, of quick-draw clubs. As this issue goes to press, Bodrie reports 115 such clubs already in existence.

So this is the story of a man who honestly believes that he is "The Fastest Gun Alive"—and who backs his claims with bullets. It won't settle any arguments, but it may give you some new fuel for the fire. And the next time you hear a quick-draw claim in split seconds, find out what was timed—and where the bullet entered. It makes a difference.

Bodrie's address is 133 Burke Ave., River Rouge 18, Michigan. Letters to him should be addressed there, not to this magazine.

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## ELMER KEITH SAYS . . .

(Continued from page 8)

picket reticle in a scope. You can never hold your groups to as close tolerances vertically with a pointed post as with a flat-top post. Young eyes can see a small bead or post perfectly, but as the shooter gets past the half-century mark like this writer, the fine small beads or blades are apt to grow whiskers and be harder to catch quickly. For all iron sight work, I much prefer a fairly wide flat-top post of the well-known Redfield Sourdough type. You can smoke it black for use on target or in bright sunlight plains shooting and it will hold elevations perfectly; and for the dim lights of timber shooting, nothing shows up better or is quicker to catch than the sloping gold faced blade. I prefer the blade to be about 3/32" wide even on rifles with 24" barrels.

For game shooting, the Redfield Sourdough is just right, to my notion. It is a sturdy sight and will take many hard blows that would ruin any bead sight; and if the face is damaged, one can file it up square again and still have a front sight on his rifle. Of the two types of front sight, my vote goes to the Redfield Sourdough as the best hunting front sight yet produced. Whether bead or blade, the gold or ivory inset should be perfectly flat faced, as any convex bead or insert in a blade tends to shoot away from all side lights.

Contrary to popular opinion, the Sourdough blade front works as well with receiver or peep sights as with wide-angle English V open sights. For those doubting these statements, let them put up a target at 100 to 200 yards and fire a ten-shot group with the same rifle, using each type of sight. They will soon learn that the vertical dispersion is cut almost in half with the flat top blade.

### King Size Sixgun

Russell C. Wilson and Wm. Howe, of Michigan, have been making some really powerful sixguns and using them for deer hunting. The caliber is .45-70 for two of Wilson's guns, and a .348 case expanded to .43 caliber for Howe's gun. The .43 caliber, using a Keith 250 grain bullet and a light grouse load of 28 grains of 2400, last fall accounted for one buck by striking in the shoulder and exiting from the neck on the opposite side with a 2 1/2" exit hole.

The .45-70 weighs six pounds two ounces and is not exactly a ladies' gun. It handles about all factory loads, or reloads with 405 grain soft-point bullet and up to 31 1/2 grains of Hercules 2400 powder for an estimated velocity of 1600 feet or better. This load goes through eight inches of dry elm or the same amount of green bitter hickory. With my Keith 250 grain Lyman bullet and a charge of 43 grains 2400, he gets around 2000 feet velocity. Recoil he reports to be

rather mild.

This old Gun Editor is looking forward to testing one of these bear guns. It should be something to startle the pink-pantied gentry who howl about the terrible recoil of the .44 Magnum. I enjoy shooting the fine S & W and Ruger .44 Magnums, and know I would also enjoy shooting this big one.

Here we have a handgun too heavy to pack on a belt without a shoulder strap like the Sam Browne, but it would carry nicely in the old Dragoon-type pommel saddle holster. This huge sixgun is powerful enough for any American game, or even an African lion. It would give the trapper or prospector a gun he could carry in a holster on his pack board that would account for any big game on this continent at reasonable ranges. It should also be tops as a long-range sixgun.

The photo of the big gun in comparison with a 38 Spl. S.A. Colt will give anyone an idea of its size and bulk. It is a much larger, heavier gun than the old Colt Walkers and Dragoons. The gun is hand made, patterned after the Colt and Ruger single actions, but this one is one made without rod ejector. Truly a sixgun to end all arguments as to size and power. Bill Cody would have loved a pair of these guns in saddle holsters when he was running buffalo to feed the railroad crew. The gun shows excellent judgment in the design. Very little of the barrel projects back through the frame, just enough to permit the cylinder to revolve properly. The base pin catch is the old time-tried first model S.A. Colt type, a set screw through front of frame. Cylinder, frame, and barrel are amply heavy to handle the big loads.

### Test of Second Model 740, .280 Remington

Remington recently sent us another Model 740 to replace the first gun sent out to us. The magazine on that first sample was very hard to load into the rifle.

The magazine on this second gun loaded easily with ammo and also slipped into the rifle slick as grease. I never did nor never will like a detachable magazine in any big game rifle, but many prefer them, like being able to pack extra loaded magazines for rapid reloading. They also claim they can thus change ammunition in a jiffy, which is perfectly true. Gue I'm just old fashioned.

This second rifle has the high-comb scope stock with checkered grip and forend. We fired it 40 rounds for accuracy and functioning, and found it to be the most accurate auto-loading big bore rifle we have yet tested. This one, with the very high comb stock made especially for the use of a scope, is of course almost impossible to get down on for iron sight shooting. Just the same, it shot into 1 3/4" for me with the coarse open sights at 110 yards, five shot groups. We had only 40 rounds of ammo for the rifle so did not put a scope on it, but I am sure this rifle will shoot as well or better than a great many bolt action rifles. The M740 is made with two styles of stocks: plain, with just the right drop at comb and heel for iron sights, or this fancy checkered stock with high comb for scope use.

The rifle was then tested to long range



Giant .45-70 handgun dwarfs pattern Colt Single Action pictured below it.



and again shot very very well. I do not like the conventional coarse buck horn rear and bead front sights, but if the rifle were fitted with a Williams Foolproof, Lyman 48, or Redfield receiver sight and a Sourdough front for the low comb model, or with a good 4 power scope for the high comb model, it would be perfectly sighted. It is a rifle that is accurate to long range, ideal for running shots at coyotes, wolves, antelope, or other game in open country. It's a very short, compact, light and handy clip rifle for those preferring an auto loader. No doubt Remington will later chamber their 721 model for this fine .280 Remington cartridge. In my opinion, the cartridge should have been brought out in a true 7mm caliber, so it would accept and handle all true 7mm bullets. Also, I think it should have been loaded with a 180 grain bullet, muzzle velocity 2800 feet per second, for use in the 721 rifle. Nevertheless, my hat is off to Remington for producing the best auto-loading hunting rifle I have seen. Mike Walker showed me some of the first run of this M740 back in 1953 at the Ilion plant and I shot a couple of them, one in .35 Remington and one in .30-06 caliber. Later, I tested two more 740s in .30-06. Now, after testing two more of these rifles in .280 caliber, I feel qualified to express an opinion on them.

Remington now has a complete line of pump and auto-loading rifles and shotguns, are with the same excellent design of smooth-flowing receiver lines, good safety position, and good stock design, in .22 as well as big game calibers for the rifles, and in several gauges in the shotguns. Any hunter preferring pump guns can have the new Remington .22, a .280 or .30-06 big game rifle, and a shotgun with the same fit and feel. The same can also be had by the hunter preferring the auto loader. Those arms look, feel, and handle so much alike that practice with one model helps with the others.

### Non-corrosive, Non-mercuric Berdan Caps for British Cordite Cartridges

The firm of Alcan Co. Inc., Alton, Ill., informs me that they carry a line of Berdan caps, both non-corrosive and non-mercuric, to fit all the British Berdan-primed cases including the big express elephant cartridges. This will be the best of news to the many users of handloads in these fine British double-barrel and Farquharson rifles. They can now wash and clean their fired Cordite cases, reprime with these fine new caps, reload with cool burning I.M.R. American primers, and have loads that will give much longer barrel life and at the same time eliminate the boiling-water treatment after each use of the big rifle. In Africa, my little tracker, Galu-Galu, was religious in pouring boiling water through the barrel of my .476 Westley Richards after each firing. He would then wipe it dry and oil it carefully. With my .333 O.K.H., using Remington or Winchester primers and 4350 powder, I simply put the rifle back in its heavy Boyt saddle-leather lined case after each firing and no cleaning was necessary.

### Colt Frontier Scout

At last Colts have turned out a real .22 Single Action, patterned after their famous old .45-frame single action, but on a much smaller scale as to size of frame, in keeping

with the needs of a small caliber weapon. Some changes and improvements have been made from the old design, but it is basically the same gun and action. The grip also remains the same.

The frame is of die cast light metal, apparently amply strong for the little .22 L.R. cartridge. Stock straps are made in one piece of the same white metal, similar to the treatment given the well known Ruger Single Six, thus eliminating two joints and one screw from the stock straps, making for a much stronger assembly.

The main spring is the traditional long, flat spring but made with a ring at the bottom to fit in a recess in the cast stock and butt strap, thus eliminating the main spring screw. The spring is very light and the gun cocks as easily as the coil-spring Ruger, yet has ample kick to fire the cartridge. Base-pin catch is a transverse screw that bites the base pin instead of the spring plunger cross pin, more like the early Colt Single Actions with their set screw in the front of the frame which was by all odds the best type of base-pin fastening even though a screw driver was needed to loosen the set screw and remove the base pin and cylinder for cleaning.

The base-pin bushing is eliminated, same as on the Ruger, and the cylinder is thus in one piece without the detachable base-pin bushing traditional with all older Colt single actions. This seems adequate with .22 cartridges, but I would reserve judgment in the larger calibers, as base-pin bushings can be replaced much easier than cylinders; but so far the Rugers seem to take it very well without developing end play.

Trigger is conventional narrow trigger in left side of guard. Trigger and bolt springs are the same flat stock but are stampings, with less chance of breakage than on the old guns. Loading gate is standard Colt Single Action but of die casting material. Extractor rod housing is a departure from the old milled housing and is rolled steel. The rod itself is small, polished, and functions perfectly. Extractor rod button is also a white metal die casting to cut costs. Grips are of traditional Colt S.A. design, of black plastic, checkered, and with the Colt monogram at top. Barrel, cylinder, hammer, and working parts are steel. The firing pin is a spring-loaded separate firing pin as first introduced in remodelled Colts here in Salmon, Idaho, over 30 years ago by H. W. Bradley and later adopted by Christy Gun Works, Great Western, and Ruger. Trigger pull is clean and good.

Sights are the same as on the old Single Actions—blade front and hog-wallow rear in top of frame, with rear end squared into a Patridge notch to fit the front sight.

We tested the gun with Remington greased .22 L.R. Highspeed and have never fired a more accurate pistol. At 15 yards, my first six shots, the five of my first six shots which were called O.K. went under a dime. The one shot I called out was out of the group, but was all my fault. More shooting showed the same accuracy. When I did my part, it would hit a dime at 15 yards every time. It functioned perfectly, is light and well balanced. I give this little gun a clean bill of health. It's a lot of gun for \$49.95, and what I would not have given for one in my younger days for shooting small game! Did British import laws permit, it would also be excellent with high speed hollow points for taking guinea, Francolin, and sand grouse in Africa for the table.



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## I LIKE THE SIDE-BY-SIDES

(Continued from page 21)

un-missable shot, ideally suited for initial demonstration to a beginner. So easy that I had already resolved to shift our position after a few shots to one offering harder angles and better instruction. After a caressing glance at the TUNKEN curlicues and graven birds, I missed eleven consecutive shots. Doctor Hall, after carefully observing my technique for a few minutes, began to shoot and quickly killed nine doves. As I had told him, doves are easy. We then went back to my house and drank some beer, discussing, meanwhile, the probabilities of a revolution and its possible aftermath.

For several years I had been corresponding with Charles Askins, Jr., then with the office of the Military Attaché in Spain. Honestly and decently we envied each other our various shooting opportunities and, naturally, discussed the guns we used and preferred. Charles professed to be a thirty-third degree over-under man and, because I had long revered his father as the source of more good and less bad information concerning shot-gunners than any writer since Frank Forester. I was inclined to pay respectful attention to the views of the son. So, I tried again. And again, and again. I continued to do no good and to dislike my superposed more and more, in spite of its neat engraving. I even tried to make up a slogan of my own, using TUNKEN, and some words that rhymed but it never quite jelled.

That ended that, but as a sort of penance I wrote to Charles Askins and asked him to arrange for me to make a legitimate purchase of the finest over-under Spain could produce—but stocked to the dimensions and specifications of my Lefever. This, after a heap of protocol and red tape, was arranged and, for somewhat less than a new four door sedan would have cost, I received a gun from the *fabrica* of Aguirre y Aranzabal, Eibar, Spain. From every point of view but one it is a work of art. From its meticulous fitting, precise and tasteful engraving, and beautiful walnut, to the little gold indicators which tell whether or not the arm is cocked,

it is without a fault. And will I be able to hit anything with it? I don't think so. Why? Well I'll try to tell you, by telling what happened when I showed the gun to my friends, Elmer Keith and Judge Martin.

I looked at it and looked at Elmer Keith and Don Martin pleadingly. They looked at each other, at their drinks, at the bearskin rug on Elmer's floor. It is a beautiful rug, it is a beautiful over-under, and it is a good drink. Finally I ask, hesitantly, "What do you think of it?"

A discourse on technical excellence was just getting its foot in the stirrup when I shot the horse:

"Is it pretty? Pretty like a shotgun? Like your Number 5 Ithaca? Like my Parker?"

They looked at each other, at their drinks, at the bearskin rug. Then they looked at me, divining my agony of spirit. They spoke sadly but with finality, their words coming side by side as killing shots should come: "No." "No."

One day I decided to read my GUNS magazine instead of weakly lending it to various friends who often return such loans in the sweet bye-and-bye, causing me to be anything up to a year obsolete in my views. My decision was a lucky one for it furnished a base point from which I reckon time—i.e. before or after I read about "Glamour Girl of the Shotgun World," the ream of praise for over-unders by Charles Askins, Jr.

Now Charles Askins, Jr., is one of those fellows with whom I would love to spend a lot of time, even rainy afternoons. I concede his right to own, cherish, and shoot brilliantly eight or eighty of the detestable *escopetas con cañones sobrepuestos*. To me, it merely demonstrates (a) that he is a great overcomer of obstacles to whom handicaps are but challenges and (b) that it is a wonderful thing to live in a free country where individual idiosyncrasies not only are not punished but often are remunerative.

I shall refer with neither malice nor impartiality to certain aspects of my good friend's views, just in substance, as the law sharps say. And if he and I were here seated face to face we might get well into the second fifth of Valley Tan ere disagreement reached the repetitious stage. I mean we disagree numerously.

Sezee, in substance: the fast wingshot does not see the front sight, he sees a blur, uses the last three or four inches of the two barrels as a sight, and that is far too broad for precision. Well, yes, and no. Yes, it is far too broad for precision; and no, the fast wingshot does not use the last three or four inches as a sight, nor see a blur. In my humble opinion again, based upon questions to and observation of a quantum of fast wingshots, the majority plus 17 per cent never see anything except the target, nor would I believe them on oath if they were to say otherwise. I am a fast wingshot, too.

Sezee: we habitually fire the right barrel first. Now if this be the editorial "we," then I merely note that he, not we, habitually fires the right barrel first, and comment to myself that such procedure seems pretty silly when circumstances often make the left barrel a better choice. I note further that firing the right barrel causes the gun to recoil in that direction and that to recover from this first (right barrel) shot the shooter

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must not only fight the gun back down but whip it to the left to compensate for the direction taken during recoil. My! My!

When I think of all the invisible spin-vectors to which I have given rise, the torsions, stresses and strains which have racked my now-enfeebled frame, I cease to wonder that it often takes a second and sometimes a third application of aqua fortis before I stop spilling more than I drink. That this deplorable situation might have been prevented by using an Over-Under instead of what I have always called a shotgun gives me scant comfort, for I would have dam' near starved to death. Still, maybe it is a good thing that at least 25 per cent of all my shots were at targets moving to the right and rising with varying degrees of rapidity; this may have been the margin which has kept me ambulant.

Sezee: all doubles used to have small and graceful fore-ends. My Parker still does—and fine checkering inside the confines of the skeleton butt plate, besides. Whereas the old time gunner may have had to shoot his way out of hot corners frequently, since I have left Paraguay, and considering my age, it is doubtful if many hot corners threaten to scar my hands hereafter. So I'll just carry an old left hand riding glove in my flask pocket to ward off bad external burns. And I might say right here that the sweet beaver-tail fore-end which Charley Fajen and John Bishop put on my blessed old Lefever while I was absent on government business during the middle forties neither burns my hand nor mars the lines of the shootingest shotgun which it has ever been my good fortune to encounter.

Sezee: the left, or forward, hand is the guide element; the right, or rear, is the anchor. In August, 1942, Fred Etchen said to me, and to you, and to the world, and I quote: "Watch out for that extended hand; if it is trying to do the pointing, the pupil should be corrected and taught to do practically all of the pointing by controlling the gun with the trigger hand. . . ." This is wandering from the issue but may be considered as part of the *res gestae* to raise a reasonable doubt. Mr. Etchen was a good shot, too.

With an obeisance to a great, good, and honest gunner, the late Major Charles Askins, I will say that the picture of him in "Glamour Gal of the Shotgun World" issue of GUNS, showing him holding son's gun and a deceased bird, is the petard upon which Charles, Jr., is hoist. The Old Master was a lot better shotgunner than son will ever be and (chuckle) he picked a *Road-runner* as a proper target for the over-under.

And—mean, whiskey drinking, poker playing, nasty old man that I am—I sink my harpoon still deeper by a direct quote from Major Askins, the Senior, in August, 1942: "It is everyone to his choice, but to me the most beautiful weapon of the whole (lot) is a fine double shotgun." He did not mean an over-under. Major, we miss you.

This may come as a complete surprise to you readers, but I do not like over-unders. My reasons are personal, good humored, and cogent. They include, but are not necessarily limited to, the following:

a. To my eyes they are ugly, resembling a roe-filled stickleback. Like the mule, a hybrid, they have little pride of past and, in my book, small hope of future greatness, even though they may serve efficiently those of a certain turn of mind.

b. Their construction is mechanically unsound. Whereas, closed they are merely ugly and awkward to handle, open they are eternally on the verge of separating into their component halves. To insert a loaded shell into the lower barrel is a major project at any time and a near-impossibility in cold weather under the influence of suddenly seen Canada geese, snipe in quantity, or a drake wood duck in nuptial plumage. At this point I must, in all fairness, state that the oft-repeated chestnut that O-U shotguns swing hard in a side wind is immaterial, if true. I could write ten thousand words on winds and their unpredictable effects in the shooting fields; instead, I will settle for the neck-out statement that winds are just as often favorable to the over-unders as to the side-by-sides, and if you hunt much in Kansas are probably more so. Consider the vertical wind and the high incomer or outgoer so often encountered in field and marsh; there, the superposed actually aids the gunner to split the breeze!

c. I can't hit anything with them. If there be a better reason for condemning a gun, fifty years of research has not revealed it to me. (The exception is my Remington double derring, with which I am deadly at three meters on a clear day.)

This afternoon, the breeder who sold me my Weimaraner pup stood in my den, about to have a beer. Thirsty, eager for the gustatory delight of that first deep draught, he checked, set down the glass, and whispered, reverently: "Is that a Magnum Ten?"

When I assured him that it was, he asked if he might handle it. Moved, I took from the rack my Ithaca and watched the tip of his tongue touch, childishly and lingeringly, his upper lip as he received, caressed, and skillfully swung the big double to his shoulder. Carefully, he handed it back and asked me if I thought he would be crazy to purchase one of the foreign made Magnums currently advertised. I said that I thought it a fine idea but added that I based my reply upon the published opinions of several writers who had used the guns or had seen them made. But when he asked me why it was impossible to buy a good, new Magnum Ten of United States manufacture I felt

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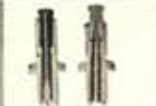
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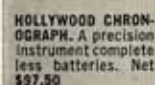
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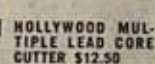
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latent tears in eyes and throat, for I had been brooding over that same question.

Starting with my seven-year-old worship of shotguns in mail order catalogues, I had studied progressively down the years even more beautiful advertising brochures and products of Parker, Ithaca, L. C. Smith, Fox, Lefever, and Winchester. I bought my Lefever "Nitro Special" for \$28.00 in 1929. In 1939, Winchester's Model 21 could be bought for \$72.45 and up, depending upon the degree of customizing and extras ordered. Parker's "Trojan" at \$72.50—\$101.10 with single trigger—was the bottom step of their ladder, at the top of which stood the A-1 with embellishments and a \$942.00 price tag. L. C. Smith doubles started with a "Field Grade" non-ejector at \$43.20 and climbed smoothly to a \$1289.00 "Premier" grade.

Excepting Winchester, never predominantly a shotgun manufacturer, Ithaca clung longest in the field of fine doubles. In 1939, their products ranged from a "Field Grade" at \$43.00 to the Number 7 Ejector double with ventilated rib and selective single trigger in bores from caliber .410 through gauges 28 to 10 Magnum! As if that were not enough, it provided, and I quote: "the frame, guard, forearm iron, trigger plate, top lever and breech block elaborately engraved and ornamented with oak leaf and acorn design in relief. Beautifully inlaid designs on right and left sides of the frame, ducks on one side and pheasants on the other. Three different colors of metal are used in inlaying the ducks and cattails—green and yellow gold, and silver—a gold elk's head is inlaid in the guard, an American Eagle is inlaid in gold and silver on the trigger plate. The trigger is triple gold plated and hand checkered. It has a gold name plate in the stock. Price No. 7 Grade with Automatic Ejector . . . \$379.20." (The italics are the author's own idea, as is the !, and a masterpiece of under-emphasis if I ever saw one.)

Well, in the words of a currently and justly popular star of television: "You can't hardly get them like that any more," and certainly not at that price in U. S. manufacture. While our great names—Parker, Ithaca, Fox, Lefever, L. C. Smith—folded their side-by-side double gun tents and succumbed to automation in the interests of eating regularly, a little bitty war upset all calculations. That and an inherent love for a lady as opposed to a Glamour Girl of dubious parentage and a foreign accent.

Following an old American custom of paying for all wars twice—once to win it and once to restore the losers and all interested bystanders to greater wealth and prestige than before—we have brought the name of Beretta, Ferlach, Sauer, AYA, Sarasqueta, Neumann, Continental, Francotte, Bernadelli, and Franchi into our tent where, even as the fabled camel, they have almost ousted the local boys. And with what did they accomplish this miracle? Primarily with fine, double barreled side-by-side shotguns which our big names—except Winchester—could not or would not make for us. Professional pointers-with-pride might just as well slither to less barren fields for they have here scanty material at which to point.

How could foreign makers of fine side-by-side doubles find a market in the face of our brutally high tariffs—tariffs to protect an almost non-existent lot of Stateside double gun makers? The answer is found in that most immutable, yet quicksilverlike item: human nature. And the proof of my statement is that Winchester continues to make double barreled side-by-sides ranging in price from \$440.00 to whatever the customer is willing to pay, to gratify his desires in a customized Model 21. Furthermore, it is now possible to buy a Fox, Model B, as in 1941—but not for \$26.00; the price is now about \$85.50 with two triggers, or \$95.50 with non-selective single trigger. Possible, also, to buy a J. C. Higgins shotgun, double, side-by-side, for about \$66.50 and a Stevens Model 311 for the same price. Are these manufacturers crazy altruists interested only in preserving an American tradition? I doubt it.

What they are doing is cashing in on human nature. The man, woman, or child who buys the cheapest under-sixty-dollar model does so because to him it is a shotgun and not a machine for making noise and throwing shot. Because he sees, beneath the crudity which is unavoidable at the low price, the basic fine lines which a great artist saw when he produced the most beautiful gun ever built. That our buyer's grasp fails, a little, to secure the gun of his vision may be only temporary; at least he is reaching in the right direction. Let us hope in days to come, unborn generations may be able to buy from American makers the gun hallowed by tradition and sanctioned by use because it had no real faults to mar its unquestioned beauty.

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## GETTING SET FOR SAFARI . . . KEITH

(Continued from page 28)

range. This is my life insurance policy. This caliber is my choice of all the big ones. Recoil is not so heavy but what one can recover very quickly for the second shot, which can be important. It is the famous old .476 Westley Richards cartridge with a 520 grain soft nose or solid slug, backed by 75 grains of Cordite in a 3" case. Velocity is 2100 feet, which is plenty high enough for a big, dangerous-game rifle. The cartridges are shorter than the .470 or .475 No. 2 and yet they are more potent with heavy bullet and better sectional density. I found penetration on yellow pine blocks 16" long laid end to end far superior to the .600 Nitro Express or the .505 Gibbs, all with solid bullets. On buffalo, however, I was disappointed to have a 520 grain solid mushroom badly after hitting two ribs. I ordered some fresh 520 grain solids from England, with steel jackets, to guard against this kind of performance.

I have every confidence in this big rifle, and intend wearing it like a lavalier most of the time when we are in the thick bush. The rifle handles and balances just like a fine double shot gun and is very fast to get on the mark. Having used a magnum 10 bore Ithaca (the first one ever built) for over 20 years for all my pass duck and goose shooting, I believe the Westley Richards double .476 is just the ticket for all heavy game shooting. For Africa, I packed around 100 rounds for the big rifle, mostly solids for the big stuff, but with a few 520 grain soft nose for lion or side shots at buffalo if in a herd.

Most of the great game costs extra and are on special license. Two elephant and two buffalo are allowed to one license holder in Tanganyika, so I took out the full complement of licenses, which cost nearly \$600.00. Lion, rhino, and leopard, as well as second elephant and second buffalo, cost extra on special license. Sometimes, as happened last year to my friend, Boyd Williams, one gets charged by a small askari bull while stalking a big elephant, and you have



Keith found .300 Hollands with row sights very popular for the long shots.

to shoot him. This is when an extra elephant license may come in very handy. One can sell the extra ivory after the trip.

They warned me that every good bull elephant entails on the average around 100 miles of hard hiking on foot, so I am taking two pairs of Whites packer shoes, made in Spokane, Washington. I have used these shoes for the past 30 years and have found them to be the most comfortable shoe for hard hiking in rough country. All the old timers who have hunted Africa over the years testify that ones feet are most important and that you simply must have comfortable foot gear. These White packer shoes lace up snug and tight around the ankle and have a high built in arch-support. They are hand lasted and offer the foot and ankle maximum support and protection. Because of shipping costs, I decided to buy other clothing for the field in Nairobi: long-sleeved khaki shirts, khaki slacks, shorts, under shirts, wool socks, and a shooting jacket with cartridge loops for the big rifle so spare loads will not rattle in the pocket in stalking. With a pair of moccasins for use around camp and one warm jacket for night or evenings or very early mornings and my old Stetson hat, I was fixed for clothing.

I wanted to take along a 4" Smith & Wesson .44 Magnum for killing small antelope and the like, but was advised against it, as British laws are very strict regarding handguns. The handy six-gun becomes far too much trouble to get through customs, so it is best left home.

I am taking a pair of Bushnell 7X 35 Rangemaster wide-angle binoculars, which I have found by test to be the equal of any glasses I have used on game. I am also taking a couple of pairs of Mitchell shooting glasses to cut down the extreme bright sunlight. These glasses are made for me with very small bi-focals in the bottoms of the lenses for close work, such as with camera

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adjustments. Though I have 20-20 vision, my arms are getting short!

For cameras, friends loaned me a Contax with 1.5 lens, also telephoto lens and light meter, and a Rolliflex German camera taking a  $2\frac{1}{4} \times 2\frac{1}{4}$  negative. I wanted two, so I could keep one loaded with color and the other with fine-grain black-and-white film suitable for good enlargements. Taking plenty of pictures throughout the trip is essential because of the pictorial format of GUNS magazine. Although movies are wonderful, they require the nearly full-time attention of one man—you can't very well shoot and do photography at the same time—so I decided to take only stills.

If present plans are not changed, I will leave Idaho Falls, Idaho, by air, stay over one day in N.Y.C. to rest up before the long hop to Europe, landing at Brussels or Paris, then on to Nairobi. Will make the hunt with John Lawrence, one of the directors of White Hunters Ltd. We plan on taking a light outfit, a one-ton Jeep and trailer, so we can move fast and far and hit the best game localities. It will not be any plush safari but we will have the essentials for a good hunt and with his trained native help, should be comfortable enough. The trip will take us down into Southern Tanganyika and we will have to stop at Arusha, for licenses.

John Lawrence shoots a 7X 64 mm. for a light rifle and a .416 Rigby for a heavy rifle. My old friend, Gerrit Forbes, uses a .500 Nitro Express Westley Richards for a heavy rifle and a 9.5 Mannlicher Schoenauer for a light rifle. Lawrence's battery, with my own .333 O.K.H. and the .476 Westley, should turn the trick. I am only interested in hunting the great game and do not intend doing much hunting for antelope, other than sable and greater kudu, which are most beautiful trophies. As any shooting around camp is apt to scare game in this country, I believe it will prove the same in Africa and intend shooting only needed meat. I will forego the shotgun shooting that is to be had in such profusion, as I want to put in most of my time for a really good elephant and buffalo.

Although a great many fine friends have advised me in every way possible, I will still consider myself a tenderfoot when I get to Africa. From what my friends, Gerrit Forbes, Forrester Scott, Dick Fisher, C. W. Palmer Wilson, John Taylor, and many others have told me, I will see more game in a week in Africa than I have in a lifetime of hard hunting in North America. I have no desire to make a big bag of game, but want to see and photograph it, and try for a few really good specimens of the great game. I want also to find out first hand just how well the various rifles and loads work out on that game. When the long trip is over, I hope to be able to give GUNS readers a factual account of some of my experiences and be better able to advise them on equipment for Africa.

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## SHOOTING ON THE RUN

(Continued from page 18)

away simply because scattergun practice had conditioned me to fire whenever my aim was only approximately correct.

All of this illustrates what I mean by the "basic philosophy" of rifling running game: in order to hit moving targets consistently with a rifle, the shooter must be precise, exacting, deliberate. If approximation is the watchword of the shotgunner, precision is that of the rifleman. The old hand at running game does not rely on some mysterious "instinct" to guide his bullet, and he does not yank off a prayerful "snap-shot." He carefully puts his sights where he wants them, and squeezes. This does not mean that the man trying to lay one on an antelope has to be as careful and calculating as the small-bore competitor dropping the last shot into a 10X possible. It simply means that in

order to perforate his antelope our boy must make a conscious, deliberate effort to get his sights into the exact area that will result in a hit. Obviously, since that area is a lot larger in the case of the antelope than in the case of the 10-ring, the shot at the antelope can be taken correspondingly faster.

A corollary of this principle is that the rifleman, in contrast to the shotgunner, must always be conscious of his sights. Most good scattergunners, after they have been at it for some time, find that sight picture becomes so automatic that it is almost subconscious, the conscious mind focusing on the target alone. But the rifleman who is successful on running game knows precisely where his sights are when his gun goes off, so that he can call his shots just as effectively as the target shooter. When he does not have a clear mental picture of those sights, and their relation to the target, he has slipped into the shotgun habit of approximation, and if his bullet does happen to down the animal, it is only because the poor beast's number was up.

If the target is crossing in front of the gunner—that is, moving at something approaching a right angle to his line of sight—lead is necessary, just as it is on the skeet range. This is true whether you are shooting a .220 Swift at an ambling armadillo, or a .45-70 at a peripatetic polar bear. Anyone who thinks that he can hold right on and hit because his firestick puts out a modern high velocity bullet need only take a couple of pops at a mildly disturbed antelope to see how far off he really is. Even with a cartridge of the .270 or .300 Magnum class, our hero will quickly become convinced that there are other and more effective ways of keeping the family fat.

Aiming a stationary gun somewhere out in front of a crosser does not cut any more ice with a rifle than it does with a shotgun, unless the animal is quite close to the gun and moving very slowly. Yet I am convinced that it is the method used by fully ninety percent of the riflemen who are faced

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with the problem of moving targets. Tax-payers who would no more use the technique on a passing dove than they would tackle an indignant grizzly with Uncle Ethelbert's .25-20, see nothing inappropriate in applying the "point and hope" method when a buck barges across in front of them. And it is among the 90 percent that the "shoot 'em and wound 'em" hunters are found.

Actually, the only way to get consistent results with a rifle on crossing targets is by swinging. The swing provides an automatic compensation for the speed of the animal, and it also reduces the effect of any peculiarities or irregularities in the gunner's coordination or reaction time.

There are two schools of thought on the type of swing that should be used. With the so-called "fast swing" the shooter starts his rifle behind the target, moves up past it, keeping the gun moving faster than the target, and touches her off when he thinks the sights are the right distance out front. With the "sustained lead" method, on the other hand, our man pokes his sight out ahead of the target, swings along long enough to gauge the animal's speed and direction and to get himself set, then squeezes off with the rifle still swinging at the same rate. Both methods, of course, call for a squeezed trigger rather than a jerked one, and both require that the rifle be kept swinging as the shot is fired.

The word is that the really top-notch hands, exhibition shots like the Linds or the late Ad Topperwein and others of that cloth, use the fast swing. I am by choice a fast swing man with the scattergun myself, and time was when I looked on users of the sustained lead as doddering oafs who were either too ignorant or too clumsy to manipulate their guns properly. That was before I began to lob rifle bullets at moving game. A couple of years of that convinced me that, for myself and about 95 per cent of the gun-toting public, the sustained lead is the only really reliable method of dumping a crosser. Most of us simply do not have the fine muscular coordination and delicate reflexes necessary to make the fast swing

consistently effective with a rifle. We may do quite well with it on our good days, if we have been practicing regularly; but on our bad days we can be very sour indeed.

Les Bowman, the outfitter and rifle nut of Cody, Wyoming, needs a minimum of prompting to tell you, with painful particularity and a good deal of ill-concealed humor, about the time I tried the fast swing on elk. I was doping along in a big mountain basin when a good-sized bull trotted innocently out in front of me. I got him moving with a shot that went awry I know not how. Then I settled down to the task of killing him on the run. I can still remember swinging through, touching off as the crosshairs passed his brisket, and seeing a spout of dust a couple of feet behind him. Next shot, just as he was making it over a ridge and out of sight, I tried to get about

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a length ahead before I fired, and that one fanned in front of his forequarters. It was all very irritating, I assure you.

Of course, for many shots at moving game no swing at all is necessary. For the antelope running straight away from you, the answer is the same as for an animal that is simply standing with his rump pointed in your direction. Just remember to be deliberate and precise, settle the crosshairs right in the middle of that hobbling white, and hope that the bullet hasn't ruined the front quarters too. A common shot for the western mule deer hunter is at a buck that has been bounced out of his bed along the side of the canyon and climbs up steeply and at an angle away from the gun. Here it is simply necessary to hold above and to one side of the mulie, letting him run into the bullet.

The theory of the quartering shot is the same: hold off to one side, and fire with a stationary gun. However, because big game animals are generally only second-rate at geometry, they often neglect to run at angles that are precisely 45 degrees from the line of sight. And the hapless rifleman, with no pattern to cover up his miscues in judging the angle, may find that hitting this shot is not simple, after all. You don't have to twist my arm hard to make me tell you about the quartering antelope that I knocked for three loops and a spin in Wyoming last September with a hold about a foot off to windward. But you will have to apply considerable pressure before I tell you about the one that I missed a couple of hours earlier, with precisely the same hold, because his angle of departure was slightly less than I figured.

A mistake that most men make in letting off their broadsides at hustling big game is in position. I would hazard a guess that for every pop taken at a running animal from the prone, sitting, or kneeling positions, there are at least ten fired offhand. This despite the fact that the targets of these offhand shots are often two, three, or even four hundred yards out. When you realize that Albert Average would probably miss more standing deer offhand at two hundred yards than he would hit, and add the fact that his target is most moving and hobbling irregularly, it takes no seventh son of a seventh son to see that pickings are going to be pretty slim in the Average larder come hunting season if Albert persists in shooting from his hind legs at running game.

The tendency to shoot offhand is easy to understand. With his game busily engaged in putting as much landscape as possible between itself and the gun, the shooter feels rushed, thinks he has to get off his shot immediately or not at all, doesn't feel he has time to diddle around with "target range positions." Of course there are times when a quick offhand shot is all that can be taken, and on game fairly close at hand it is probably the best position to use anyway, because its flexibility permits complete freedom of swing.

But put a couple of hundred yards of space between your buck and the rifle muzzle, and the offhand position begins to look like a bad bet. Actually, when game is that far away, there is almost always more time to shoot than the gunner realizes. A good indication of this is that our boy will usually manage to get off two, three, or four shots offhand. The pious thing for him to do, instead of scattering brass all over the scenery, is to plant his tail in the dust, take his time, and fire one of those cool, deliberate shots that we were talking about. The thing that citizens who blaze away indiscriminately offhand fail to understand is that in this sort of rifle shooting speed without accuracy is worth nothing, whereas accuracy without speed can often be worth a good deal.

And while we are at it, let's remember that the user of the sitting or kneeling positions doesn't necessarily sacrifice speed to the man who is standing up on his hind legs, either. It takes a bit longer to assume the sit or kneel, true, but once the shooter is in position he can come on target and get off his shots more quickly and efficiently than the fellow who is depending on a pair of wobbly pins. Anyone who has serious intentions of becoming a good shot on running game should practice dropping from a walk into one of these steadier low positions. He will find that it can be done with quite amazing speed. A really seasoned practitioner can slam into the sit, get lined up on target, and fire his first round so fast that it makes your head swim to watch the process.

For some reason or other, the kneeling position is very rarely used by hunters. Most people shoot prone if they have a chance, offhand if they don't; a few of the initiated sit; but almost no one kneels. Why this is I don't know, for kneeling is really the perfect posture for the hombre who wants to poke holes in something that runs, being considerably steadier than offhand but having much more flexibility than the sit. It is really quite a trick to wriggle

(Continued on page 54)

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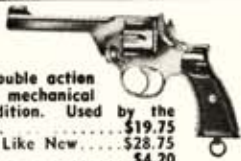
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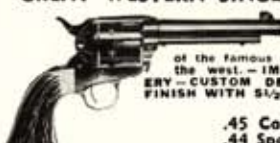
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and squirm through a fairly long swing in the sit, and perhaps for this reason most people who use the sit very extensively also use the fast swing. But even the clumsiest can swing like a windmill in any of the orthodox kneeling positions. Kneel, then, is definitely a position for the serious consideration of the running game shot.

Because of the fact that he has to shoot quickly and accurately at a target that will not stick around for much rechecking of sight picture and hold, choice of sights is particularly important for the lad who has to take his meat on the hop. Despite the superstition still prevalent in some quarters that glassware is strictly a stationary target proposition, scopes are the medicine here. And this goes whether your particular brand of hunting involves beating the bushes in Michigan or riding the range in Montana. A good 2½ or 4 power glass, mounted low on a properly stocked rifle that the shooter is familiar with, is the fastest of all sights, is far more efficient on running game than the usual complement of hardware that graces the barrel of a rifle when it comes from the factory. With a scope-equipped rifle, the shooter simply mounts his piece and finds himself looking at his target through the field of the scope when he presses his cheek down on the comb. Since reticule and target are transposed on a single focal plane, the job of aiming is reduced to its simplest possible terms, with no mental ramps about sights to spoil the swing.

Best reticle for running game is probably the traditional crosshairs, but no one need smash his scope on the rocks if he finds a dot or post and crosshair in it. If you must use iron sights, stick with a tang or receiver sight with a good, wide aperture, mounted as close to your eye as the recoil of your musket will permit. It may be true that some one once hit a moving animal with a rifle on which was perched that insidious snare called a semi-buckhorn rear sight, but I doubt it.

Maybe I am just young and innocent, but a fact which I find somewhat startling is the lack of practice with which the average citizen blandly approaches the task of subduing his annual venison on the gallop. Dumping a vamoosing buck may be no harder than hitting a stationary target, once you get the hang of it, but it is certainly no easier. Yet while most of the boys have been sufficiently brainwashed by the shooting writers of the past five or ten years to spend a few afternoons on the range before deer season opens, they do all their pecking at eminently immobile bullseyes. They would squeal long and loudly if anyone started to

move their targets around—this from men who would quickly write off as psychopathic anybody who expected to shoot a decent game of golf without ever bothering to waddle out to the links.

Practice on running targets has obvious advantages in instilling good swing and follow-through habits, teaching you to co-ordinate trigger squeeze and swing, developing your ability to get off the shot as soon as your sights are on. But its basic value, I think, is in helping the shooter to overcome his initial tendency to fire wildly and at random, showing him how much time he really has, teaching him the fundamental principle of deliberate care and exactness with each shot.

So leave your smoothbore in the rack and take along a .22 the next time the Pine Junction Possum Picking and Snake Snaring Society convenes for a cottontail hunt. Or set upon the local jackrabbit contingent when the mood to roam abroad seizes you. An excellent form of practice is to take an unloaded gun, get out of sight somewhere, and dry-fire at the hubcaps of passing cars. Another empty-gun possibility is swinging on neighborhood dogs as they cavort through your yard and dismantle your flower beds. This, again, is a type of practice to be pursued from a place of concealment, if you would avoid being the guest of honor at a festive and well-attended necktie party.

It goes without saying that a person who engages in practice of this sort—or any kind of dry firing, for that matter—without knowing that his gun is empty is just as morally culpable as a person who would drive his car blindfolded, and just as much of a menace to society.

The killing of running game with the rifle, then, is a problem which confronts all rifle-bearing nimrods sooner or later, and one which will create but little joy in the hearts of the unprepared. It is a business to be taken seriously by the man who plans to venture afield with a big game tag in his pocket. Realizing that his target may well feel inclined to mobility when he appears on the horizon, such a man should familiarize himself with the angles he is likely to encounter, adopt the swing that is best adapted to his physical endowments and ability, practice getting into and shooting from a good long range position, and use the sights that are best suited to his purpose. Above all, when the moment of execution arrives he should remember that all the speed and "snap-shooting" and "instinctive" gun-pointing in the world will not take the place of a conscious and careful effort to get his sights right before he touches off the shot.



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## HOW FAST IS A BULLET?

(Continued from page 25)

instance, 20 and 30 meters. Naturally, the longer the measuring base or screen separation, the longer time the chronograph has to record. The percent of instrument error from shot to shot is reduced by using a longer measuring base, but modern chronographs can act with sufficient accuracy using much shorter measuring bases. The shot-to-shot variation in velocity with ordinary rifle ammunition depends on several factors, such as differences in bullet weight, bullet diameter, case neck diameter, case neck hardness, case fit in cartridge chamber, case volume, powder and priming mixture. It is of little use to obtain velocity measurements accurate to tenths of a foot per second, when the shot-to-shot velocity variation, which can't be controlled more closely in normal production, runs up to 25 feet per second between rounds.

Wire breaker or closer screens are now often discarded in favor of modern photoelectric "screens." These devices are "electric eyes" which have a sensitive zone through which a bullet, on passing, will cause an impulse to register. Small photoelectric cells are often mounted at each end of a steel bar of exact length, usually three, sometimes as little as two meters. Thus, the screens form one unit of only about seven feet length, easily carried by one man, and placed on a light tripod mount any distance from the muzzle. The closest distance from muzzle to nearest screen will usually be not less than 16 inches. Closer to the muzzle, the powder gases and column of air will tend to shake the photoelectric cell, creating an impulse before the bullet actually reaches the sensitive zone.

Checking muzzle velocity reveals an interesting situation. Just where is the bullet velocity highest? In all ballistic tables, the velocity of a bullet is considered highest at the moment it leaves the muzzle. This is correct enough for the table, and for the hunter, since no one shoots game "right at the muzzle," despite popular writers to the contrary. The ballisticians measure the bullet velocity at a certain distance, and adds to this a number of feet per second to calculate the muzzle velocity. This gives a figure which is practical for bullet and energy comparisons. But to be very exact, the chronograph reveals the bullet has its highest velocity a few feet ahead of the muzzle. There are at least two reasons. The first one is that it takes several hundred pounds of force to push a jacketed rifle bullet through the barrel. When this heavy friction suddenly ceases at the muzzle, the bullet speeds up from inertia just as your car does if you are towing another car and suddenly the rope breaks. Secondly, the bullet travels down wind for the first few inches riding on the powder gases which rush out the barrel and past the bullet at a speed about twice that of the projectile. From that point on the air resistance slows up the bullet. Rotational speed, which is not slowed down as fast as the forward velocity of the bullet, has a lot to do with the mushrooming of the bullet in game.

Of main interest to the hunter is bullet velocity remaining when it hits the game. Terminal velocity, not muzzle velocity, is what counts. And this remaining velocity greatly depends on the shape of the bullet, and its weight in relation to the caliber—

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all parts of another ballistic phenomenon known as "sectional density." A modern chronograph becomes important in matching the right combination of bullets, powders, and other cartridge elements because it can tell the engineer or the handloading experimenter, the velocity left with any bullet at almost any distance, as long as he can make the bullet pass within the sensitive area of the impulse-making screens or photocells.

This main tool of the ballistic laboratory, the chronograph, may seem complicated, but operating one is fundamentally simple. Our Danish-designed Weibel-Jorgensen instrument is a portable chronograph, taking its power supply from accumulators and dry batteries. Though the complete equipment weighs a good many pounds, the outfit we use breaks down into easily portable units, and is well suited for field tests at ranges far from the laboratory. But it is of course very suitable also for indoor laboratory use. Ordinary velocity measuring is very simple, and a trained operator can make 20 to 25 readings per minute with ease. In other words, the barrel gets overheated much faster than the operator. In the permanent range installation, where routine velocity checking is done on production ammunition samples, we use a special gun to give uniform barrel temperatures. Normally, firing will heat up the barrel and cause pressure and velocity changes because of the increased barrel heat. This makes calculating the effect of differences in powder and bullet weight very difficult. Thus we have a Swedish Mauser barreled action in our standard caliber, whatever caliber we need to test fire in quantity, and this is fitted to a machine gun water jacket. The water keeps the barrel cool. By calculating water at a constant temperature, we can keep the barrel at the correct temperature for each shot, eliminating one of the variables which would otherwise trouble us.

In using the Weibel chronograph, or any other which makes a record on dials or gauges, the operator must write down the velocity figure. As soon as he transcribes the reading on paper, he pushes a button and the machine is set for the next shot. The reading will stay on the dials for several minutes without changing so, if necessary, one man can do the shooting and the checking.

The Weibel chronograph is based on the condenser system, operating on the following principle:

An electric condenser is a unit capable of taking up and holding an amount of electrical energy. It is loaded to a certain capacity and, upon arrival of the first impulse from the first screen, an unloading of the condenser through a resistance unit is started. This unloading action, a giving up of electrical energy, goes on until it is stopped by the second impulse from the second screen circuit. By measuring the remaining electric tension in the condenser, the operator will know the time it took for the condenser to discharge, and thus the time it took for the bullet to pass the distance between the two impulse screens. The velocity of the bullet midway between can then be figured. A slow-travelling bullet will give a comparatively long time for unloading the condenser; a fast bullet will permit only a short time. Thus a slow bullet drains the condenser of much of its charge, a fast bullet takes only a little of the juice.

Among the indicator and control dials on the Weibel chronograph is a plug connection which hooks up an auxiliary condenser to the system. This is for checking velocities over very long distances. For example, a shot measured between screens 300 yards apart would mean a long time between condenser impulses. From the first discharge impulse to the second stop discharge impulse might be long enough for the condenser to discharge completely, giving no reliable reading. The auxiliary resistance unit allows the tension to pass very slowly from the condenser, and using the chronograph for measuring something as slow as a baseball would be entirely possible, with a suitable distance between screens—and a strong and accurate pitcher. The Weibel also has two warning lights that indicate the screens are "ready."

With the indicator needles at zero, the lights on, the operator fires a shot. At once both lights darken, showing impulses from the screens have been received by the machine. The needle pointer instantly jumps to a reading. This is copied down, and pushing a small lever instantly resets the instrument for a second shot. Checking the instrument reading with a table shows the velocity directly, in meters per second or feet per second, depending on the table. A third table can give in tenths of a millisecond (1/10,000 second) the precise time needed for the bullet to travel between the screens. In one ten-thousandth of a second a modern rifle bullet, such as one of the new 6mm's, travels only about 4 inches, so you are operating with sufficient accuracy.

In laboratory work all velocities are recorded finally as averages of a series of shots, at least 10. One does not have to refer to the table for each shot, only for the average reading. But ballistic engineers, especially in ammunition factories turning out match and "Olympic" quality ammunition, are keenly interested in the shot-to-shot variation. These figures are never printed; they are used in removing the variables, and in correcting differences in loads and bullets to give the most uniform cartridge behaviour.

Modern chronographs prove to be the invaluable tool in the ballistic researcher's kit. Even condenser chronographs have hook-ups allowing either "maker" screens which close the circuit when the bullet passes through, or "breaker" devices such as the muzzle wire which is cut on firing. Switches allow the operator to select the type of screen which he finds will reveal the greatest information in his particular project.

Condenser chronographs are only one of the types of systems for short time measurement used to determine bullet velocity. Laboratories including those dealing with military rounds, such as high explosive and armor piercing projectiles, need different equipment. Of little interest to the target shooter and hunter, but of major value to the arms designer and engineer is the type of chronograph which operates full-automatic. Fire a machine gun through the screens of this unit and just as fast as your ammunition belt runs into the gun a strip of paper runs out of the chronograph, with the velocity of each and every shot nicely printed on it! In gun-studying instruments, as in gun designs themselves, progress is marked by making things automatic. Automation at last takes over the task of "how fast is a bullet?"



## DEER HUNT WITH GUN NUTS

(Continued from page 31)

combination suited me quite well. I found that if the light was good and if I was feeling good, I could group slightly less than a minute of angle with it. I used the same amount of powder as Jim: 50 grains of 4064, but I was using a pointed metal cased expanding bullet of 180 grains. This load was about maximum; no extraction difficulty, but the primers were flattened.

For spare guns, Ian took along another 8 mm he had built some years before. The previous season, I watched him pull a beautiful running shot with this gun at well over 300 yards. The 180 grain bullet in this calibre gives excellent sectional density and, when hand-loaded, can attain the velocities of the .30-06. I also took a Lee-Enfield .303 British that I like. I had worked it over a bit, using a Bishop stock and Parker-Hale sights. With its 10 shot detachable magazine it is a very handy weapon.

First blood fell to the light-weight. Bob and I stayed in camp the first morning to put up some shelves and clothes drying racks. Ian and Jim took off by car to look over the back roads and old logging trails, looking for the easiest way to the tops of the ridges. They came back about noon and Bob and I were still working inside the tent. They walked in and approved our efforts without saying much about their own exploits. Then they went out again. A minute or two later I passed the tent flaps and saw, lying in the entrance, a big fat muley doe. With great effort I kept my eyes moving smoothly across the tent entrance and went on with what I was doing. A minute later Bob saw it and let out a whoop, and so the story came out.

They had been driving along a goat-track sort of a road when Ian spotted the doe, high above them and about 80 yards away. Jim couldn't see it at the moment, so Ian walked down the trail a few yards, raised his light-weight and pulled the trigger. The deer collapsed and started rolling down toward the car in a tangle of legs. Ian ran back to the car, got in and shut the door, ready to take off if a slide started. The deer hung up a bit above the car, so they dressed it out and brought it in.

(Continued on page 60)

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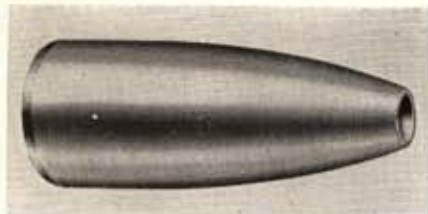


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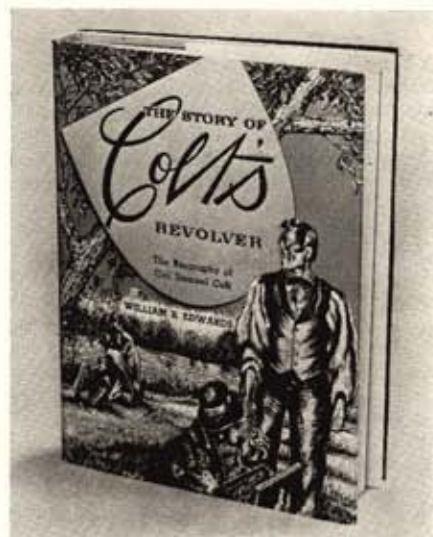


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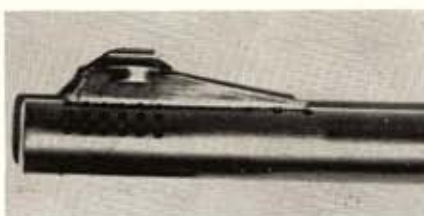
# WITH Guns

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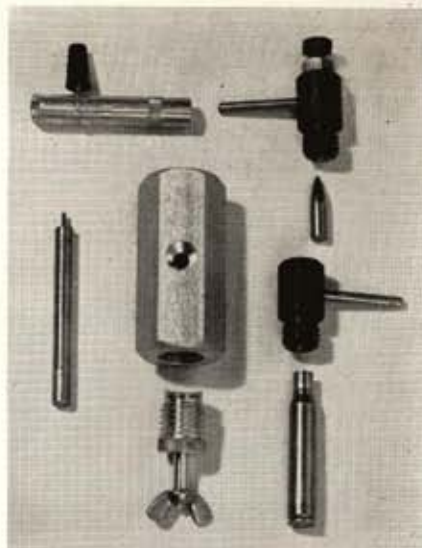
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The next day Jim had a quick shot but missed. There had been no snow for about ten days and there was sign everywhere. Tracks criss-crossing, new and old and on top of each other. It looked like a herd of calves had been turned loose. We picked the places we wanted to be at daylight the next morning and turned in.

I was on my stand while it was still too dark to see the crosshairs, even against the sky, so I relaxed against the base of a big tree where I had found the day before that I could see for a hundred yards in two directions and about fifty or sixty yards down the slope. The sky lightened very slowly and I found that I could distinguish the closer trees and bushes. A shadow detached itself from the deeper shadows at the foot of the slope and came angling silently up toward me. I slowly raised my rifle and put the scope on it. A deer! I slid the scope forward and saw antlers. I moved the cross-hair back to the shoulder—down—and touched it off at about 60 yards. At the report he staggered and turned down the slope. I bolted another cartridge home and drove at him again going away. No visible results. He was out of sight. After waiting a moment I reloaded the magazine and went down.

In a few minutes I wished that I, too, had been packing a Whelen. There were just too many tracks and no blood sign. Yet I knew I'd hit him. I found a tiny tuft of hair but no blood. A .35 Whelen would have put him down on the spot or, at the worst, he would leave a good blood track. I searched the surrounding area without result. Bob had heard my shots and came over from his end of the ridge. He had seen two does and a buck but they were too far away for a sure shot so he had let them go. Both of us searched that ridge methodically till noon before we gave up. We found not a sign of that buck, and yet I knew I hadn't missed. There was a lot of cougar sign around and I would like to think that the deer was not wasted, that it was found by a cougar and that its carcass prevented the cougar killing another deer for a few days.

That afternoon, Bob and I came back to the ridge and looked for it again. No luck. We moved off in the direction of Bob's morning stand, with him near the top of the ridge and myself about a hundred yards below and moving parallel to him. He was not in sight for a moment and then I heard the blast of the Whelen. I dropped to one knee and froze, watching in the direction of the shot. There was no second shot and

no "meat call" so I waited and watched. Suddenly it struck me that there was something wrong with the landscape some fifty yards ahead, and in an instant I realized what it was. Saplings just don't grow four in a tight bunch under a pine tree!

I eased the scope onto them. Sure enough. Four knobby knees! The body of the deer was completely hidden by the lower branches of the pine tree, so I whistled and a doe moved out. I didn't know exactly where Bob was at the moment so I had to wait till she was in a place where I knew he wasn't. By that time she was in high gear and well above me. I touched one off and she stumbled but recovered. She was visibly staggering as she hit the brush so I yelled for Bob. He came up and told me he had seen her first but not in position for a shot. So he had fired once to alert me and turn her toward me.

We climbed up to where she had disappeared, expecting to find a dead deer. But no! The same thing again. Too much sign for tracking. New, old, and middle aged tracks all mixed up. We found a little blood, lost it, found it again and lost it again. After an hour we found her, piled up. And as we dressed her out we found the trouble. Those pointed metal cased bullets were not opening up. The bullet had entered low, raked the liver, punctured the lower part of the far lung and gone out again. The exit hole was less than the size of a dime. She had gone over 200 yards.

Arriving in camp just at dusk, feeling a little proud of our deer, we found that Jim and Ian had come in ahead of us. At first glance it looked as though there were deer scattered all over the yard! Actually they had only three, but they were arranged to the best advantage. There were two bucks and another doe which they had taken late in the afternoon.

Spotting this bunch, again uphill from them at about a hundred yards, they had raised their rifles and found that the sun was right in the glass. Jim took off one way down the trail and Ian the other in order to get them at an angle to the sun. Ian stopped and looked through his scope. OK! He dropped a buck and yelled for Jim to shoot. Jim yelled back, "I can't." Ian yelled, "Why not?" Then Jim cut loose and when the echoes stopped rolling around the ridges they had two bucks and a doe stretched out on the snow.

Jim had had a "Charley-horse" in his leg which had momentarily prevented him from straightening up. But he had dropped the

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biggest buck with a running neck shot, off-hand and over a hundred yards away, while he was still heaving from running and with a cramp in his leg. Jim told us that, as he approached his downed buck, "I didn't like the look in his eye, so I kicked some snow in his face. Sure enough, he blinked." So Jim backed off and drove another shot through his neck. After that "the eyes looked alright."

Ian came up then and as they were admiring the four big symmetrical points on each side, Jim happened to look down the hill. The other buck was trying to get to his feet. Jim said, "Wups! There's one settin' up." He raised his rifle and offhand, downhill, and over a hundred yards away he shot it between the eyes. It didn't "set up" any more.

That gave us five deer, and Bob still hadn't had a clear shot. We agreed that it must be his turn next. Sitting by the fire that night I took a pair of side-cutting pliers and nipped the ends off all the cartridges I carried in my belt. I knew I would sacrifice accuracy and flatness of trajectory, but I wanted those bullets to open up. As they were, they were going through like needles. Never again would I use a new bullet on game without trying it myself for controlled expansion.

Early the next morning we spotted a small buck, but before Bob could get a shot it moved into the bush. There was an old trail up back of the thicket where it disappeared and Jim took off at the double to take it or turn it toward us, whichever he could do. He got off one shot but the bullet must have hit the brush first, because it hit the buck in the leg. He turned down toward us, and after several fleeting glimpses Bob saw a shoulder shot, and that was that. We now had three bucks and three does.

After lunch we moved over to the other slope where the sun would hit later in the afternoon. We were all together when we saw an unusual sight. Three does in a bunch. One muley standing broadside to us, one white-tail standing facing us, and one white-tail lying down facing us. They were only some sixty yards away but they showed no alarm. We had time to glass the surrounding area thoroughly for a buck, but there were none in sight.

We were allowed one more doe and Bob stepped forward to do the honors. It was a picture shot. About 60 level yards, in the bright sunshine, and no wind. Bob chose the muley, feeling as I did, I believe, that the white-tails were too pretty to shoot. Bob squeezed the trigger and the big



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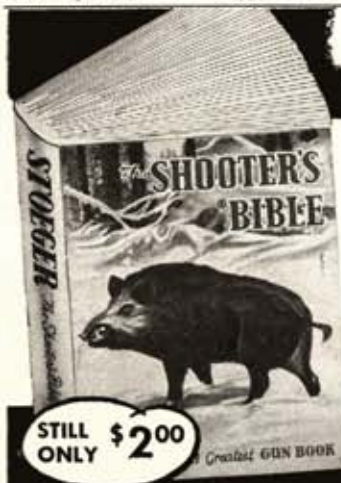
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Whelen bucked and bellowed. The muley humped its back but stayed on its feet. It seemed to be holding its breath as Bob snapped the empty case out, and with an easy "snick-snuck" sound he bolted another cartridge home. The rifle steadied again. Just as he touched it off the deer collapsed in a heap and the second bullet sped harmlessly away. When dressing the deer, we found the first bullet had gone through the rib-cage and the only meat spoiled was an area the size of my hand on the exit side.

That was it. I still had a buck tag but I didn't want to use it. I felt that I had my buck even if I didn't get to put a tag on him. Bob's last clear clean shot was a good way to tie it up. I pointed out that if we left that night we could get to town before the frozen food locker closed for the week end, and that's the way it was.

The trip back was uneventful. Good roads and no mishaps. The tour through the city to show the deer to our families was a complete success. The representative of the company making the bullets I had used was contacted and he took the details of the non-expanding bullets and forwarded them to the research department for analysis. I have since learned that the construction of the jacket is to be modified, and the antimony content is to be checked.

The final act of the trip came some weeks later, when we paid the cutting and freezing bill on 806 pounds of prime venison, the finest meat in the world.

## GUNSMITHS OF EIBAR

(Continued from page 35)

M1935. Finally the stock, unquestionably quite by chance, is a take off on the stock Pedersen designed for the now long-obsolete Remington Model 51 auto pistol. The resulting handgun is a lulu! It lacks only a double action mechanism to make it one of the very best in the world. Isaac Irusta, dynamic general manager of Star, is hard at work on this improvement.

The 9 mm and .45 ACP (also on special order the .38 Super) are copies of the old Colt .45 Model of 1911 with some variations. The grip safety has been eliminated from the Star. The pistol in 9 mm Bergmann caliber is the regulation sidearm of all the armed forces.

Down the road toward San Sebastian, about three long pistol shots, is the tiny village of Elgoibar. Here is the firm Gabilondo y Cia, makers of the very well known Llama pistol. Stoeger is the sole importer, I believe. The Llama is made in .22, .32 ACP and .380 ACP calibers. It is the Colt M1911 in miniature, while a dead ringer for the Colt is made in .45 and .38. These are excellent pistols, well built and reliable. The plant is old and tumbledown but the quality of the weapons isn't reflected in the age of the tools, or at least was not when last I visited there.

Gabilondo also makes revolvers, copies of the S&W Military and Police Model. These weapons are called "Ruby" and are sold in South and Central America. I have inspected and shot a good many of these six-guns. They are very well made, carefully finished and smooth functioning. The last time I saw the Gabilondo clan, the company had passed to second generation youngsters and they were starting to build the K-series of S&W target revolvers.



World wide, the best known of Spanish handguns is the Astra. During the mid-'20s, when unadulterated garbage flowed out of Spain in the form of potmetal pistols, old man Unceta, jefe of Unceta y Cia, would not permit a single weapon to leave his benches that was not first class. As a result the Astra has a world-wide reputation for goodness and reliability. U.S. importer is Firearms International. The Astra is made at Guernica, a bit removed from the Eibar hub. The pistols, all autos, range from .22 to 9 mm calibers. For many years the Spanish military lugged the big Model 400 as their standard sidearm. In 1946, Army trials were held and the Astra got the heave-ho in favor of the Star. It has had little effect on the Astra export business. Unceta also manufactures shotguns, but on a small scale.

Pistol manufacture in Eibar probably approaches 30,000 annually. At least 90 percent of this outpouring goes abroad.

The big shotgun makers are Aguirre y Aranzabal (called "AYA" from the initials), Victor Sarasqueta, Casa Ugartechea, Mendicute y Cia, Viuda de Sarasqueta, and Arrazabalaga. By far the largest of these is the firm AYA. Annually this outfit turns out in the neighborhood of fifteen to twenty thousand shotguns. These scatter models are singles, side-by-side doubles, and over-unders. Unlike practically all other makers in Eibar, AYA does not farm out its work, but accomplishes every operation save the blank forging in the plant. Receivers of chrome nickel steel, as well as barrel blanks, are purchased from Patricio Echeverria Co. of Legaspi. Patricio, another sturdy old Basque who has been in the steel-making business for the past sixty

years, takes great pride in the maintenance of a quality barrel steel that will permit of no substitutions. A half-dozen years ago when chrome and nickel were scarcer than pork on a Mohammedan's table, he bought his alloys on the black market at steep increases in cost. This cost was never passed along to his gun-making customers.

Aguirre y Aranzabal regularly make a total of 21 different models. Four of these are over-unders, two with sideplate locks, two with box locks and there are four very fine side-by-side doubles, all made with side-locks. These eight deluxe models are followed by six conventional doubles. Among these less expensive arms is the Model 400 called "Matador," currently exported to Firearms International, the U.S. outlet.

The remainder are of little interest—cheap doubles and singles meant for shipment to places like Iraq, Angola, Borneo, Ethiopia, and Laos.

The AYA company, less than two decades old—youngest of all the major concerns—early made the decision to build a high quality shotgun. This weapon, it was determined, would follow the lines of the best English doubles. The resulting Model 56 AYA, a handsome side-by-side double, looks enough like the best Purdey to be a blood brother. And at one-third the cost!

The Model 56 is a back-action side-lock type, to my mind the best of the various systems. The locks are removable with a concealed key and, once exposed to the eye, are as beautiful as the movement of a fine Swiss watch. The lock mechanism is polished and hand-honed. The plate upon which the lock is mounted is engine-turned, and, finally, to add that intrinsic touch, all moving parts are gold-plated. This elimi-

nates the hazard of rusting. The jointing of metal to metal and wood to metal is a delight to the true connoisseur of gun finish.

The locking-up is accomplished with two under bolts and a modified wedge above, closely paralleling the Purdey. Ejectors are on the Holland order. There is an "easy opener," a spring-actuated cam which literally unbreeches the gun automatically once the top lever is pressed. Single selective trigger is fitted.

The walnut in the 56 surpasses anything I have seen from a Birmingham gun maker these past 20 years. It is Spanish walnut. For grain, figure, richness, and coloration it stirs the heart of your true gun-man. Stocks are custom fitted, with or without pistol grip. Forestocks can be ordered as straight Continental, beavertail, or semi-beavertail. Engraving may be either English scroll or game scenes in semi-relief, or a combination of both. The garish and overdone high relief carving of the German engraver is not in evidence on the fine Spanish shotgun. The work usually depicts game field scenes and is tasteful and appealing.

While comparisons are odious, judged by our current costs, engraving on this Spanish piece would range in the neighborhood of three hundred bucks. It looks like something straight out of Tiffany's.

This shotgun is the culmination of more than a hundred years of constant improvement. Joe Manton more than a century ago made excellent smoothbores, guns that when swung and pointed today impress the handler with their goodness. From Manton to the Model 56 has been a long time but a period in which dedicated artisans have trimmed a little here, added a little there,

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Condition: Good to very good	\$12.95
Collector's Models (Limited)	17.95
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Sporting 135 gr. box of 20 rds.	2.85

Use only original ammunition. Unlimited supplies available.



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### MODEL 1910 Cal. .303 Br. \$19.95

One of the very few straight pull bolt action type rifles in the world, the Ross .303 saw service with Canadian troops in two wars. An excellent long range sporting and target rifle. Weighs only 8 lb., 6 oz. Length 52".

Condition: Good	\$19.95
Ammo: Military, 100 rds.	7.50
Custom loads, 150 or 180 gr.	20 rds. 3.50

### .41 SWISS AMMO

Here's perhaps the rarest of all imports... newly manufactured in cal. .41 Swiss ammo! Absolutely not available since 1940. Usable in all cal. .41 RF Swiss rifles and carbines... 20 rounds \$5.50. Sorry—No COD's on ammunition, only



### SWISS VETTERLI RIFLES Cal. .41 SWISS

Latest model Swiss Vetterli in very good to "mint" condition. Turnbolt action. Twelve shot (10 in tubular magazine, 1 in chamber) Caliber—.41, Swiss, r.f.; Length—52"; Barrel—33.2"; Wt.—about 10 lbs.; Rifling—4-groove, 1:26" twist. Bayonets approx. 2 ft. long made in Solingen of fine Swedish Steel—with 18 1/2" sabre blade and saw tooth back. Very rare.

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Bayonet with leather scabbard, metal tips (sold only with rifle)	3.95
New oiled leather carrying sling	2.50



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Condition: Cal. .455... good	\$19.95
select models, add	5.00
Converted to cal. .45 ACP with 2 half-moon clips	21.95
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Ammo: Cal. .455 Military	box 50 rds. 5.50
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gradually gaining in balance and improved feel—developing a vibrant and responsive shooting tool that is well nigh perfect. That is the AYA.

Prosaic description fails utterly to do the gun justice. It must be seen and hefted, put to shoulder and swung lightly, brought down and mounted again. Then does the discerning gunner appreciate what a superbly built weapon he has beneath his hand. The Model 56 is not shipped to the United States. The only importer of AYA shotguns professes no interest. To get an AYA practically necessitates a visit to Espana.

The over-and-under shotguns made by Aguirre y Aranzabal are built on the Merkel type action. The lock-up consists of two underbolts and a Greener crossbolt. This is the sturdiest of all the superposed actions. Finest of the over-under AYAs is the Model 37. This gun features the same beautifully figured walnut, same 26-lines-to-the-inch checkering, identical engraving. A single trigger, raised ventilated rib, choice of barrel lengths, borings, forestocks, etc., are to be had in this gun as with the M56. I have been firing an AYA 37 for the past five years. It has spewed out literally thousands of rounds, is just as tight and trouble free today as when I claimed it at AYA homebase, Eibar, in 1951.

Victor Sarasqueta, son of the founder of the Sarasqueta y Cia, makes both side-by-side and over-under scatterguns. His several models range from fairly fancy deluxe jobs to very plain field guns. The better Sarasqueta is a typical Continental upland smoothbore. It will range from 6½ to 7¼ pounds, and is excellently balanced, fast handling, and quite reliable. Recently Sarasqueta has specialized in the manufacture of a 10 gauge Magnum to fire the 3½-inch shell. These shotguns are imported by Alex Stoeger. This is a fine, dependable shotgun.

The firm makes a few double express rifles. There is great difficulty in securing sufficient cartridges to properly regulate the

barrels. I had Sarasqueta make two double rifles for me and before he could undertake the job I had to import the .375 H&H cartridges. An interesting feature of the Sarasqueta express is that he has licked the problem of extraction and ejection of the rimless case. One of his doubles will not only yank the empty case clean of the chamber but will flip it out.

The only fly in the soup is that, due to the extremely shallow receiver, the firing pins must strike at a most acute angle. Instead of striking directly forward, as do ordinary fuseses, the pin must strike downward at a terrific slant. Misfires result. Spanish shotshells are of very mediocre quality, head and rim dimensions vary greatly, a factor which made the Sarasqueta over-under look bad. Let a cartridge sink a fractional part of an inch too far into the chamber and the sharply angled firing pin simply could not reach it with enough oomph to set it off. Criticism resulted, and Sarasqueta quit making these guns.

Ugartechea, Aramberri, Mendicute, Viuda de Sarasqueta (no connection with the firm, Victor Sarasqueta), and Arrazabalaga (cousin of the great stocker) are outfits that produce from a few hundreds to several thousands shotguns annually. In the best grades all make excellent weapons. In the common grades all are to be shunned. The lesser outfits all subscribe to the guild system and farm out a great deal of their work. Unless a substantial price is paid, the weapon is apt to leave a good deal to be desired. Inspection standards are not uniform and while every gun is twice proof-fired and is completely safe, triggers are apt to be sticky, ejector troubles will develop, chambers are sketchily reamed, and there are apt to be other not immediately appreciated shortcomings. But these are on the cheap stuff turned out for a price in far-off foreign markets. For improved standards of quality and workmanship in good guns, the gunmakers of Eibar take a back seat to nobody.

## GUN RACK

(Continued from page 38)

### Stoeger's New "Ruby" Revolvers

An unusual bid for the attention of shooters and pistol buyers is an imported Spanish revolver distributed by Stoeger Arms Corp., 507 Fifth Ave., New York.

This new revolver is an old-line make in Spain, where Gabilondo & Company have been in business for many years. More famous for their Llama automatics, Gabilondo turned to the manufacture of revolvers about 1926. The guns of Gabilondo have always sold on their merits, though the Spanish makers have stuck with copies of the basic Colt automatic and Smith & Wesson revolver designs. But in the big suit brought by S & W back in 1923 against importers of Spanish guns, significantly absent from the list of foreign makers was the name of Gabilondo. Orbea Brothers, Beistegui Brothers,



Stoeger Ruby is good buy at \$59.60.

Trocaola Aranzabal, Garate Anitua & Co., and Guisasaola Brothers were makers of guns cited by S & W attorneys as infringing their trade rights. But Gabilondo was not in the suit, partly because the firm had long specialized making guns of serviceable quality

(Continued on page 66)

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to sell in price competition with standard "famous brands." And that is exactly what their S & W pattern "Ruby" revolvers will do, as distributed by Stoegers.

The Rubys all sell for the same price, \$59.60, while deluxe models are available in chrome plate (\$80), gold plated (\$90) and engraved on up to \$400 in the most elaborate gold damasked finish. In the standard blue models, the appearance is very good—surprisingly good, in view of all the bad marks which other Spanish revolvers have earned in past years. On a 2" barrel square butt .38 Special examined the polish is even, a satiny surface with a good, uniform color of chemical blue-black. The grips follow the newest style, giving firm hold and good trigger control. Double action squeeze again is surprisingly good. The serrated trigger gives a firm surface for the finger, and in listening closely to the lockwork motion no particular grating or scratching could be heard. Fitting inside was therefore pretty smooth. The DA pull is light on several models in .38 and .22 examined, and there is no question but that it is a good gun, among the best of the Spanish make pistols.

Although the mark "Ruby Extra" is stamped in a distinctive oval trademark below the thumb latch, and the maker's name is plain elsewhere, the guns are copied from the Smith & Wesson. The situation is not novel: years ago in the 1860's the Colt pocket model revolver was copied by half a dozen makers, because the design was sound, and they could therefore compete on a price basis. Gabilondo's imports from Stoegers are along these lines, and while they are not of the quality of S & W finishing, they are well-made revolvers of good materials, following

a standard pattern. The plain models are offered at only a little less than the competitive model, but in the fancy styles they can offer elaborate decoration for low cost.

Faced with price-competitive imported guns, the arms editor often falls back on a universal condemnation of the foreign stuff, and urges his readers to buy domestic makes only. But free trade has always seemed to be a root of the gun trade, and Stoeger's Ruby revolvers do not fall into the class of Spanish "Smith & Wessons" of the 1920s. The Ruby Extra is one of the best made copies of the Smith—better than the Italian Galesi copies seen abroad—and offers a worthwhile package to the penny saving gun bug. It will appeal to the man who wants something different, a novelty. It will appeal to the shooter who wants to save money in the deluxe grades. As service arms they need to be "proved" to Americans, though they have been in use in South America for many years, and it is said that the Israel 9mm service revolver is a Ruby. Of course, the Ruby Extra is backed 100 per cent by Stoeger's usual parts and service warranties.

### Late Flash—Steyr Pocket Auto Pistols

Imported by Stoeger is the new Steyr (Austrian) double action pocket pistol, in .32 ACP caliber only at this time. Latest in the pistol field, this unusual weapon is DA only, has no exposed hammer, and is an ideal pocket or home pistol since it is as safe as a revolver from accidental discharge. Takedown is swift: a bayonet-lock collar twists out of the front, releasing the spring. Then the slide goes to the rear and lifts up and forward for removal. No price as yet.

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Schultz & Larsen prices are going down—sharply! Why? Because substantial savings can be made by standardizing on ONE MODEL, ONE CALIBER, and ONE BARREL WEIGHT. And the growing demand for the popular Model 60 S&L Sporter — mostly wanted in the 7x61 Sharpe & Hart caliber — convinces us that this is the rifle our customers want!

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# ONE SCOPE

# ALL GAME!

## B&L BALvar 8 Variable Power 2½x to 8x

It's the most wanted scope on the market—the *only* multi-purpose scope of its kind providing year 'round hunting through an excellent choice of low powers for big game and high powers (up to 8X) for varmints. And there's *no change in reticle size, eye relief focus or point of impact* as power is changed! BALvar 8 is rugged . . . designed and built to take hard punishment during hunting trips. All adjustments are made externally in the mount—no delicate internal parts to jar loose. With its lifetime guarantee, the BALvar 8 is your best buy . . . it's several scopes in one for *all* hunters! Price \$99.50.

- ⊕ **INTERCHANGEABLE—RIFLE TO RIFLE!**  
Put B&L mounts on your favorite hunting rifles; zero your BALvar 8 on these mounts . . . once your mounts are zeroed, BALvar 8 can be transferred from mount to mount in seconds, locking in perfect zero every time!
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When hunting, use higher power for *positive* identification of target. A quick turn of the power ring to 8X and a better look at your target may prevent an accident.

- ⊕ **WIDE FIELD!** The wide field at 2½x (40' at 100 yds.) helps the hunter in tracking a moving target—"close in" on game with desired power and shoot with accuracy.

- ⊕ **SHOOT NOW—PAY LATER!** Buy your BALvar 8 or any other fine B&L scope *now* on the convenient time payment plan. As little as 10% down and the scope's yours. Pay the balance in convenient monthly payments while you're enjoying the use of the scope. Ask your dealer for this easy purchase plan.

### FREE! "FACTS ABOUT TELESCOPIC SIGHTS"

Send for your copy of this unusual 96-page manual, filled with valuable information about scope shooting. Bausch & Lomb Optical Co., 20628 Lomb Park, Rochester 2, New York.



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SINCE  1853



### EXCLUSIVE! NO CHANGE IN RETICLE SIZE WITH CHANGE OF POWER

Patented B&L tapered cross-hair reticle, ½ minute at center, appears sharp, suitably fine and the same size at any power setting. Taper of cross-hairs snaps the eye to center point for quick aiming.





Presenting...



# the **Savage 110**

AMERICA'S NEW  
HIGH-POWER RIFLE

You're looking at a completely new bolt action rifle that boasts many important improvements and refinements. Gracefully proportioned... beautifully balanced, the featherweight One-Ten is precision-engineered for outstanding accuracy, reliability and safety.

The One-Ten is the first bolt action rifle in years to be designed and built right here in America. True, modern lines bring out the handsome finish of wood and metal parts. And that's just the beginning.

You've really got to shoot the One-Ten to appreciate the accuracy, convenience and safety engineered into it. For example: there's a 4-shot, staggered magazine that offers new protection to bullet tips for greater accuracy... and a solid steel receiver with twin gas ports for added safety... plus many other outstanding features. The One-Ten is chambered for two of the most popular big game calibers—.30-'06 and .270. For full specifications on the One-Ten and other fine Savage-Stevens-Fox shotguns and rifles, write Savage Arms, Chicopee Falls 4, Mass.

**\$109.75... .30-'06 .270**

(SCOPE EXTRA)

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ALL PRICES SUBJECT TO CHANGE... SLIGHTLY HIGHER IN CANADA



**Folding Rear Sight...** The new Savage rear sight folds for use with low mount 'scopes—then snaps back to the same elevation setting. Has perpendicular white center line on rear sight for quick sighting.



**Top-Tang Safety...** Thumb safety locks trigger, sear and bolt. Easily accessible for right- or left-handed shooter. A Savage exclusive. Magazine can be unloaded by operating bolt with trigger and sear locked.



**New Design Bolt—Double Front Locking Lugs...** Lugs cam into front of receiver for a strong lockup. Recessed bolt head is fully enclosed in the receiver when firing. Bolt is easily removed and disassembled.



**Telescope and Aperture Sights...** Receiver tapped for popular 'scope top mounts and aperture sights... straight knurled bolt handle fits recess in stock—permitting low 'scope mounting.



**Graceful Design—Perfect Balance...** Selected walnut stock. Checkered fore-end and capped pistol grip, fluted comb. About 6¾ lbs. 22" full-floating tapered barrel adds to accuracy and easy handling.



**Cocking Indicator—Adjustable Trigger Pull...** The cocking indicator on right side shows at a touch or glance if action is cocked or fired. Trigger pull easily adjusted without removing stock from rifle.