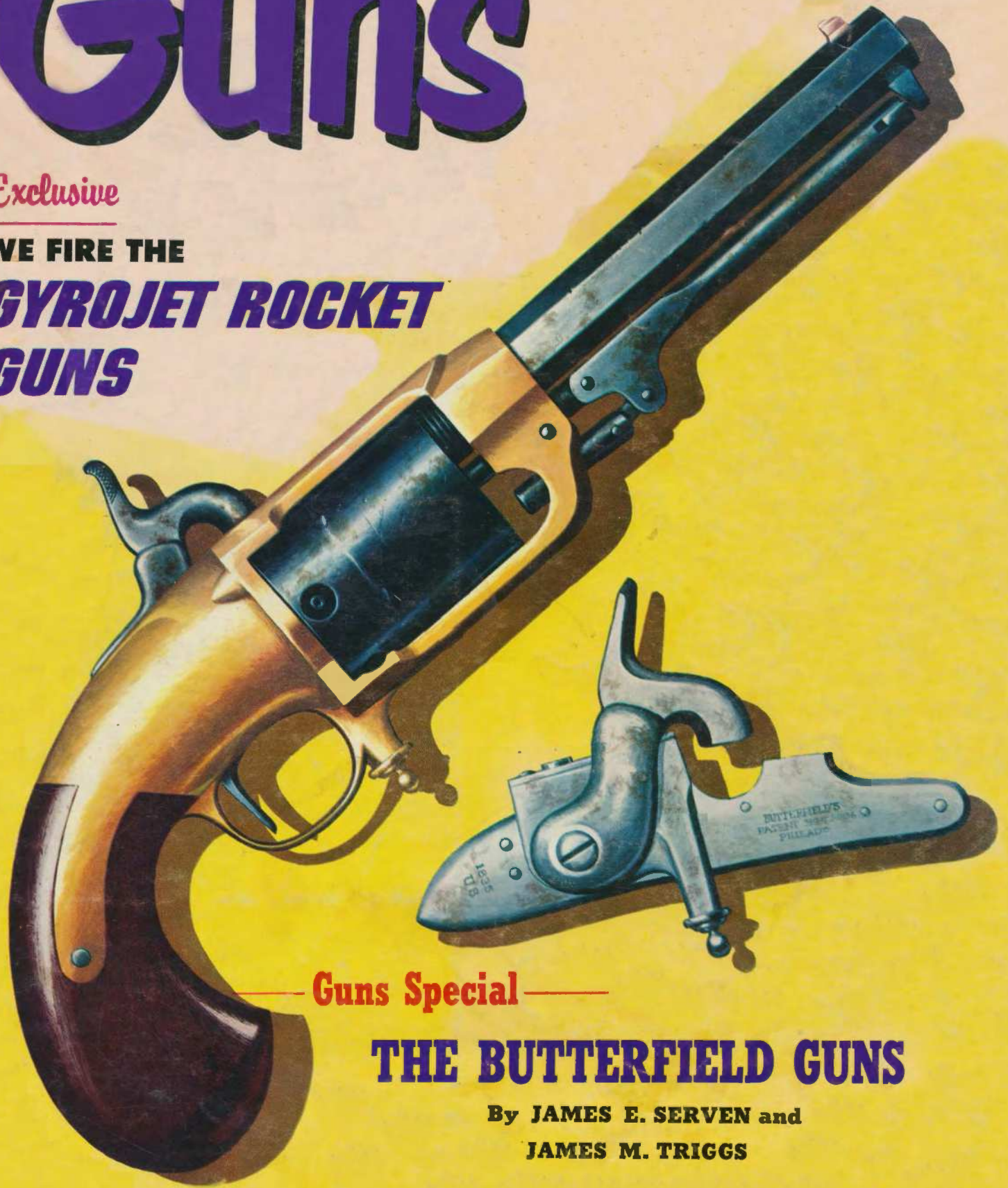


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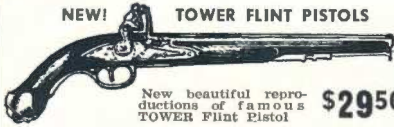




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# KNOW YOUR LAWMAKERS

**Congressman Frank Thompson, Jr.  
4th District, New Jersey**

The Second Amendment has no more zealous guardian than Mr. McNamara, our Secretary of Defense who, by running a well-regulated militia in the National Guard, is doing very well in preserving not only our external security, but our internal security as well.

The only threat to our security appears to come from the unregulated sale and possession of firearms by people who do not seem to have an interest in the Second Amendment or a law-abiding community.

**Congressman Raymond F. Clevenger  
11th Dist., Michigan**



My Congressional District covers the northern 36% of Michigan, where we have some of the finest hunting in the continental United States. We, also, have an unusually high number of sportsmen, including myself.

For this reason I was surprised to learn the results of a poll I recently conducted in my District regarding the firearms legislation issue. Of the more than 17,000 persons who answered the poll, 56.65% said they favor a Federal law requiring registration and control of the sale of firearms. Forty percent were opposed to such controls and the rest had no opinion.

However, I do not believe those favoring such a law expect it to be of a nature that will interfere with the constitutional rights of their law abiding neighbors who enjoy hunting and shooting sports.

**Congressman James H. Scheuer  
21st Dist., New York**

As a former National Rifle Champion, I believe in the right of citizens to own guns. This right is not infringed, however, by reasonable government regulation which would tend to prevent deadly weapons from falling into the hands of criminals or the mentally unstable.



**Congressman Bob Wilson  
36th District, California**

I am wholly aware of the Second Amendment to the Constitution and of the dangers of the times it was designed to meet. There is no doubt on my part that responsible citizens, such as your readers, have a right to own guns. I believe the problem is to find the best means to control ownership by irresponsible persons and criminals. I am sure that your concern is as great as mine that an equitable and effective solution be found—one that will protect the public as well as American sportsmen.

**Congressman Mark Andrews  
North Dakota**



Virtually all Americans agree that we must do something to cut down the increasing incidence of crime in our country. However, any bill restricting purchase of firearms will be evaded by the criminal, and fees and restrictions on the small hardware or sporting goods store will be just one more burden that will have to be passed on to their customers. I think more crime would be deterred by making sure the criminal knows that he would get severe punishment for any crime in which firearms are used.

Readers Note: All *Congressmen* may be addressed at "House Office Building," and all *Senators* at "Senate Office Building," both at "Washington 25, D.C." Address all *Governors* at: State Capital, name of capital city, name of State.



# Guns

FINEST IN THE FIREARMS FIELD

DECEMBER, 1965

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### THE COVER

For the third time this year, GUNS Magazine proudly presents the combined efforts of James Triggs and James Serven. The Butterfield guns, though not extremely rare, are in considerable demand and good specimens are seldom traded or sold. Jim Serven did extensive research not only on the Butterfield family and the Butterfield priming system, but also on the contemporary priming devices which were then popular.

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## Insulated Jacket

The Stearns Manufacturing Co., Division at Thirtieth, St. Cloud, Minnesota, is offering something new in insulated hunting jackets. First of all, the jacket is fully reversible, one side is bright red, the other is OD color.



The collar contains a hood, the great-pockets are fleece lined, and wrist bands are adjustable—and the Hunter Jacket is inflatable. An internal air chamber can be blown up easily and swiftly, and there is enough buoyancy in the jacket to keep the average weight and size man afloat for quite some time. The jacket is fully waterproof, and although the sleeves are not insulated, we did not feel the cold on our arms at all. This may be due to the nylon shell of the jacket. In testing the jacket for several months, we found that the only drawback on it was the single closure which is accomplished by a single, heavy duty zipper. Keith Tait of Stearns assured us that the jacket now on the market contains a drawstring in addition to the zipper, and this makes the Hunter Jacket a great deal more versatile. The jacket retails for \$49.50, is available through sporting goods and department stores.

## Variable ScopeChief II

In the June Gun Rack column, I reported on the fixed power ScopeChief by Bushnell. Since then, Dave Bushnell has released a variable power scope that also features the magnetic Command Post. This scope underwent the same tests as the fixed power scope and it too came through the tests with flying colors. We mounted the scope on a heavy

custom .243 that Paul Haberly made up for varminting and accuracy testing of bullets and ammo. Shooting in poor light, I first used the crosshairs, and when I simply could not make out the fine lines on the 100 yard target any longer, I switched over to the post. I won't guarantee that the switch from crosshairs to post prolonged my shooting time half an hour as the Bushnell folks claim, but it did prolong it considerably. This is a fine scope, but I found that the weight of the scope—a hair over one pound—adds too much weight to a sporter rifle.

## Loading Dope for the .225 Winchester

Ray Speer of Speer Bullets recently mailed us a set of the latest loading data for the .225 Winchester. Preliminary loading data were given in "Loads For The Book" in the April 1965 issue of GUNS Magazine. The currently offered data are identical, but are more complete in that they cover a greater variety of powders and bullets. Write to Speer for this loading dope, but do include a self-addressed and stamped envelope—the loading data are free.

## H&R'S Defender

This is a handy little top-break revolver that has a great deal of appeal for police work, as self-defense gun, and as kit gun where legal. Chambered for the .38 S&W cartridge, the gun holds five rounds and is available with either a 2 1/2" or a 4" barrel.



The Defender can be fired single or double action and although I am not overly fond of plastic grips, especially smooth ones, I found that the grips on this H&R gun are not



only comfortable but that they do not permit the gun to slip, even when the gun is fired with a moistened hand. The rear sight is adjustable for windage, and on the 4" model the front sight is also adjustable.

In extensive firing tests, the gun performed very well and accuracy was good, although of course not in the target class. With special handloads which were close to maximum loadings, there was no sticking of cases or case setback, and even with some very hot loads with the gun locked into a machine rest, the gun performed smoothly and without malfunctions. This is a well made gun and with a price tag of just a nickel under \$50, it is a good buy.

### Lyman T-C Dies

Lyman Gun Sight Corp. now offers special decapping and sizing dies for handgun calibers that have a Tungsten Carbide insert. This insert makes it possible to use unlubricated and even dirty cases without injury to die or brass, and T-C dies have an extremely long life—up to 200,000 or more sizings and decappings can be done with one of them without undue signs of wear. We tested a T-C die in caliber .38 Spl. .357 Mag., and selected the poorest batch of brass that we could find. Cases were perfectly full length sized and came out of the die looking nearly new. The T-C insert die also offered noticeably less friction resistance, despite the fact that cases were not lubed. You can get a single die from your Lyman dealer for \$12.95 in most popular pistol calibers, and the complete three die set, including a T-C die, costs \$21.00. If you load a lot of handgun ammo, you'll find that these T-C dies will make life a lot easier for you.

### Ray Riling Books

Ray Riling, at the NRA Show in Washington, told me that he would be reprinting several hard-to-get books. He recently informed me that the following books, in a limited edition of 1,000 copies, are now ready. Peterson's "The American Sword" retails for \$16.50, Dr. Mann's "The Bullet's Flight" sells for \$9.95, and Grancsay's classic "Engraved American Powder Horns" retails for \$13.50. Another good piece of news from Ray is his "Used Book" list that he has finally compiled. When my copy arrived of the list, I went over it carefully and mailed my order pronto. Unfortunately, I was not fast enough, and several of the books that I had been wanting for years had been sold. Now that Ray has issued his first "Used Book" list, there is a good chance that he'll issue other ones in the future. If you are not on his mailing list now, and you do want to get a chance at some of these books, ask Ray to put you on the list. Write him at Ray Riling Arms Books Co., 6844G Gorsten Street, Philadelphia 19, Pa.

### Klein's FN 400

Available in .243 Win., .270 Win., .30-06, 7 mm Rem. Mag., and in .300 Win Mag., these rifles are brand new guns with button rifled barrels and new FN actions which are guaranteed by Firearms International for one year. Our test rifle, in 7 mm Rem. Mag., shot very well, with the 175 gr. Remington factory loads grouping, on the average 5 shot

(Continued on page 62)

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24-DL

24-S

It's both a rifle and a shotgun—all in one. The Savage 24 has two barrels, one over the other. The top barrel is a rifle. The bottom, a shotgun. Costs no more than one gun. But you get two. Out in the field, you're carrying one gun. But you have the shooting pleasure of two. For instance:

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# Panel of Experts

Because of the heavy influx of questions, it has become necessary to limit the number of questions submitted in one letter to two. Your questions must be submitted on separate sheets of paper, must carry full name and address, and your Shooters Club of America membership number. If you are not a member of the Shooters Club of America, send a dollar bill with each question. Questions lacking either number or money cannot be answered. If you want a personal answer, enclose a stamped, self-addressed envelope for each question.

## J. C. Henry

I would like some information on an old shotgun. It is a single shot, hammer gun, take-down model, Serial #5195, manufactured for or by, J. C. Henry Arms Company, Saint Paul, Minn.

I do not know of this company, can you relate any history of this concern, it's founder, or background? I am researching thru the Minnesota Historical society in the hope of locating heirs and all pertinent information.

Albert F. Anderson  
Minneapolis, Minn.

After much checking and research, I am sorry to report that I can find no information on your shotgun made by J. C. Henry Arms Company, Saint Paul, Minn. It is possible that checking in the city files on business permits may turn up an answer. Maybe someone in your area also may know of this arms company. . . well readers?—R.M.

## Single Shot .22-250

Your recent suggestion that a High Wall Winchester single shot action be adapted to the .22-250 cartridge sounds like a really nifty idea, but, I wonder, how in the heck are fired cartridges going to be ejected? Since this action is not readily adapted to rimless cartridges like the .22-250, I think the owner of such a weapon would do well to carry a cleaning rod or pocket knife to remove the cases. Otherwise, this rifle would be a true "single-shot"—one shot per hunt, that is.

Ralph Greenwood  
Garland, Texas

The .22-250 can be used in a high wall if the gunsmith makes a spring loaded ejector

so that there won't be any trouble about case removal. The same velocities as those of the .22-250 can be obtained with a wildcat based on the .30-40 case.—P.T.H.

## Reloading Tool

I am planning to reload small quantities of .45 ACP ammo, primarily for economy. Can you compare the "Pak-Tool" to the Lyman 310 tool for me? I will require an outfit that needs not be bolted down and may be easily stored away.

Eugene Souberman  
Bronx, N. Y.

You can load good ammo with either tool, but not nearly as rapidly as on a bench press. The Lyman 310 is excellent, and I like it. The Pak-Tool has an advantage for .45 ACP loads, as you can full length size cases with ease. On that basis alone, where you can't use a Lyman hand sizer, I'd choose it.—K.B.

## Mauser Pistol

I have a Mauser military pistol, Model 1912, and would like to get some ammunition for it. I would also like to know if there is anyone who has parts for this gun.

John Hutchinson Sr.  
Augusta, Maine

Most of the Mauser military model pistols encountered here are "7.63 Mauser," which is also called "30 Mauser Pistol," and such ammo is made and sold in the U.S. See your local gunsmith.

Some pistols were converted to the 9 mm Parabellum cartridge (9 mm Luger) and had a large "9" cut into the grips. It is wise to have your local gunsmith check your gun (as with all war souvenirs) before you attempt to shoot it. There is another (somewhat scarce) variant chambered for a special long 9 mm; this cartridge is not commercially manufactured in the U.S. Most gunsmiths have Mauser parts.—S.B.

## Gamble Double

I have a 20 ga. double barrel shotgun which has "Gambles Ace" on one side of the action and "Gamble Stores" on the other side. The serial number of the gun is S277914G. Please inform me of the firm that made the gun for Gambles.

John Schools  
Port Edwards, Wisc.

Sorry, but we find no information on your Gambles Ace shotgun. I'm sure that there were many firearms companies that sold shotguns to Gamble Company on order (such  
(Continued on page 56)

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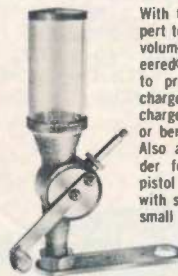
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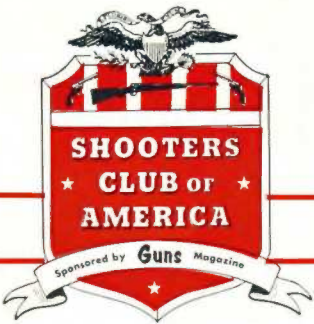
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News from the...

# SHOOTERS CLUB OF AMERICA

Dedicated to the Constitutional Right of Every Citizen to Keep and Bear Arms

J. Walter Thompson Company, one of the nation's biggest advertising agencies, has joined forces with the anti-gun propagandists. In a recent news release, J. Walter Thompson broadcast the following "information" -- "When neglected crab grass on your neighbor's lawn begins to infect your own Kentucky Blue, and your wife burns your toast the third morning in a row, and your teenage son drives your new car through the back of the garage, you're better off if you don't have a gun."

Cute, isn't it? But there's even more to come: "The worst you'll do without a gun probably won't get you more than thirty days. With one, well for some people who own guns, keeping their hands off them when they get really mad seems to be like trying to resist dessert when you're on a diet. Not easy. The mere fact of gun ownership makes anyone statistically more likely to murder."

We defy J. Walter Thompson, or anyone else, to produce statistics proving that statement! It is on a par with countless other statements of "fact" that are sheer propaganda, designed to mislead the public. Any propagandist can take any given set of figures and make it say what he wants. One of the oldest tricks of argument is to "quote" statistics that either do not exist, or have been twisted to "prove" a point, or to "quote" an authority who does not exist.

Advertising agencies seldom work for themselves. Agencies of the size and reputation of J. Walter Thompson don't work for peanuts. In this case, "The Reader's Digest" was willing to pay important money to spread anti-gun propaganda. Presumably, the objective was to achieve nation-wide publicity. Without entering into a war of statistics with J. Walter Thompson, let's compare their statement -- "The mere fact of gun ownership makes anyone more likely to murder" -- with the findings of Dr. Marvin E. Wolfgang in "Patterns In Criminal Homicide,"

published by University of Pennsylvania Press. Dr. Wolfgang says: "Several students of homicide have tried to show that the high number of, or easy access to, firearms in this country is casually related to our relatively high homicide rate. Such a conclusion cannot be drawn from the . . . date . . . It is the contention of this observer that few homicides due to shootings could be avoided merely if a firearm were not present, and that the offender would select some other weapon to achieve the same destructive goal."

J. Walter Thompson concludes its release with the conclusion that ". . . the people buying guns through the mails are those most likely to use them when things go wrong." Yet Dr. Wolfgang tells us -- "Police interrogation of Defendants reveals that most frequently those weapons are bought from friends or acquaintances for such nominal sums as ten or twenty dollars." Abolish mail order? How about abolishing friends, instead!

We respectfully suggest that J. Walter Thompson, and others, examine both the accuracy and sources of the "facts" offered to them. We suggest especially that they familiarize themselves with the actual patterns of criminal homicide before they set themselves up as "authorities," or even "reporters."

And in the meantime, it is up to us, the shooting sportsmen of America, to be ready. We must have the facts ourselves, so that when twisted distortions are spread throughout the nation, we have the information necessary to refute falsehoods which might otherwise go unchallenged. The program of THE SHOOTERS CLUB OF AMERICA is devoted to providing every gun sportsman with such information. Our Pro-Gun Press Information Service will help bring our side of the story to the general public, but we still need your support. Join the S. C. A. today!

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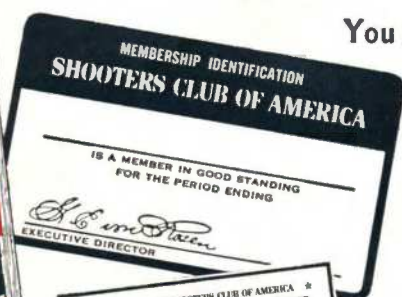
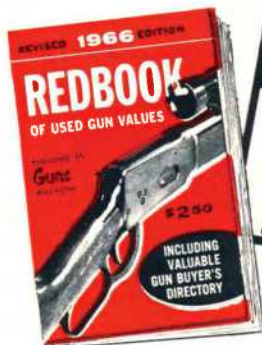
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tell you that this trusty “tong tool” goes with him on his hunting trips or out on the range . . . complements the heavy-duty bench equipment in his basement. Ask any novice — he'll tell you that it's easy as 1-2-3-4-5, as safe as houses. And *complete with dies*, the 310 tool costs just \$16.50.

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# HANDLOADING BENCH

By KENT BELLAH



THE ONE OPERATION a factory does better than the average handloader is priming. Our most common fault is failure to seat primers deep enough. A few chaps go to the other extreme and seat with so much pressure the priming compound is crushed, resulting in erratic ignition. Bad as this is, it's better than protruding primers, which may give undetectable hangfires, or in extreme cases even misfires. Much misinformation has been written on priming. One writer said to seat primers "with 80 pounds pressure." This can't work. Primers and pockets vary greatly in diameter and hardness, even in the same makes. Even with normal loads pockets gradually get larger. Some are rougher than others.

In theory the "correct" seating depth below the case head face is .008" low for W-W brand and .003" low for R-P. CCI primers, are less critical, and "correct" seating depth might be called .003" to .009" low. However, we have found primer length and pocket depth that varied as much as .012". This eliminates uniformity in seating to any specific depth below the head face. The actual correct seating depth is always below the case head face, with primers fully contacting the bottom of the pocket. A bit of extra pressure is desirable to compress the primer and increase sensitivity. Any rank beginner can learn to "feel" primers seat perfectly by practicing with about 50 or so.

What about primer seaters that seat primers a maximum of .005" below the case head face? In theory they insure a uniform seating depth; in practice they don't. While primers cannot be seated more than .005" low, they can be seated less. For rifles, especially, primers may need to be more than .005" low. The correct figure varies with each individual case and primer, and cannot be accurately gauged from the case head face. Some tools have an adjustable primer stop, but we never use it. It's easier and better to "feel" primers bottom in the pocket, then add a bit more pressure.

Once in a blue moon you'll find an exceptionally deep pocket. It will be so deep you'll immediately notice the very deep seated primer. These cases, indeed rare, should be discarded. We have found a few cases with a broken web or tapered web. These should be discarded before priming, of course. They can cause a misfire, as we found in a factory load with a deep tapered primer bottom, or over-ignition with a broken web. Visual inspection of pockets eliminates these rare troubles.

What about tools, such as Star and Phelps,

that must seat primers to an adjusted depth below the case head face? We have had excellent results with CCI primers by adjusting tools to seat .004" low. Primed cases in various makes and lots, with various pocket depths, fired 100 per cent in our own drop tests, while factory primed .357 Magnum cases gave 21 per cent misfires. All of our reloads have fired perfectly in Smith & Wesson .357 revolvers that gave misfires with factory ammunition.

Factory ammo misfires were in S&W guns made with short actions since 1949. SAAMI .357 primer specs called for 30 io (inch ounces) of energy. Factory loads ran about 24 io. Some S&W guns gave only 22 io for marginal or erratic ignition, and occasionally actual misfires. Our CCI-primed loads fire with 18 io, dependable in all guns. S&W hammer energy is increased with a .010" shim between the mainspring and strain screw. You should never lighten the S&W hammer blow to limber up the stiffer short actions.

A primer arm with an undersize punch may press the primer crown hard enough to strain or crack it where it joins the wall. The crown may separate on firing or when decapped, leaving the primer wall in the pocket. This is bad. Removing the wall is generally more work than a case is worth. The only solution is to replace the primer arm with a good one. Also, replace any arm that seats primers deeper on one side. Primers should be seated without any visible deformation. Debris on the punch imprints on the primer. In our tests, accuracy suffers very little or none at all, but reloads look bad.

To repeat, the most common priming fault is lightly seated primers. A protruding primer may discharge prematurely when chambered in a rifle or auto pistol, or prevent a revolver cylinder from turning. Some shell holders have a relief cut that permits removing cases with greatly protruding primers. It does no harm if you prime correctly, which is very easy to master. Other holders won't permit cases with fired cratered primers to be inserted. A single file stroke will remove enough crater to permit insertion.

A punctured primer generally, but not always, indicates a long or sharp firing pin, or one with a rough nose. High or excessive pressure is a contributing factor. We don't like excessive craters (called "set-back" in revolvers,) but some is normal in many hot-shot rifles with factory loads. Excessive crater in rifles or revolvers is generally



caused by a large or sloppy firing pin hole, and again high pressure as a contributing factor. Many old guns, and some new ones, have sloppy firing pin holes that give excessive set-back or crater, and contribute to punctured primers. An occasional puncture may occur with factory ammo, due to a thin or weak spot in a primer. This is rare and can be ignored, but the shot is apt to go wild. In our tests, using a rifle with a long, sharp firing pin, we could not shoot decent groups with punctured primers.

A protruding fired primer generally indicates excessive headspace. It also appears in rimless cases fired with squib loads. The firing pin drives a case into the chamber, causing excessive case headspace if pressure is not high enough for normal case set-back. Cases with excessive headspace should never be fired again with normal loads, but can be used for squib loads or blanks.

After firing cast bullets, a rifle should be checked for bore leading, that must be completely removed before firing jacketed bullets. Use my deleading loads, 33.0 gr. of mercury (quicksilver) in a drugstore capsule dropped in the powder behind a light bullet. Use squib charges of Bullseye, about 3.5 gr. in a .30-06, or 1.5 gr. in a .38-357, or 2.0 gr. in larger handguns. Fire with the muzzle overhead. Let the gun set overnight. Discard the cases as mercury ruins brass for reloads. Clean with 2 dry patches, then oil. Remember that mercury fumes and residue are poisonous.

My K-22 revolver gives severe bore leading with all makes of ammo. Bullets swage down to about .17 caliber and keyhole for shotgun patterns at 10 feet. Forcing a .30 caliber bronze brush in the bore ejects a 2" lead tube, leaving lead smeared soldered in the bore. To delead it we pulled a .22 LR bullet, discarded half the powder, and filled the case with mercury. The load, without a bullet, was chambered with the muzzle up, held overhead and fired. It works perfectly!

We have fired most top (maximum) loads in Speer's No. 6 Manual, and have reports from many other people who have fired the top loads. Not one has given excessive pressure, although a few have been on the hot side in a few guns. We have also found this to be true with hot-shot factory loads in a few calibers, especially the .264. There is quite a difference in a load that is merely "hot" in a particular piece and one that is actually "excessive." Any modern piece in good condition will take an excessive load without damage. But it's only common sense to cut back on charges that are hot in your particular gun.

Soft case heads are rare, but one or many can turn up in one lot. Normal loads give a false indication of excessive pressure, generally the first or second firing, with expanded pockets, blown primers, or a sticky or locked bolt. If new and once fired cases pass a case length & headspace gauge inspection you can suspect soft heads, if loads indicate high pressure. If a different make or lot of brass doesn't indicate excessive pressure the evidence is nearly conclusive. Of course, long or stretched cases, or those with thick necks, give excessive pressure with normal loads. Keep shells trimmed to normal length as indicated by a case length gauge, and necks reamed as necessary. The reamer serves as a perfect "gauge."



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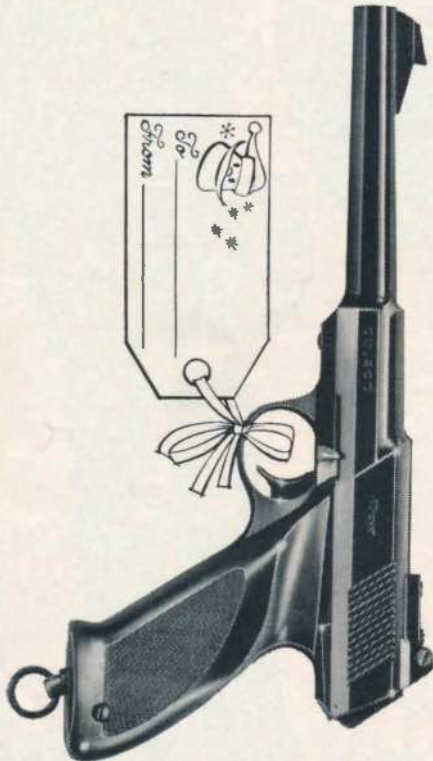
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### Travel Tip

To the readers of GUNS Magazine I would especially recommend a visit to the University of Nebraska museum at Lincoln. It is adjacent to the downtown area and in easy walking distance from the two bus stations and the Burlington Railway depot. It is seven city blocks north of the capitol grounds, up 15th Street.

I visited the museum recently and was pleasantly surprised with the variety of historical firearms. Some of the old flintlocks have to be seen to be believed. And here for the first time I laid eyes on a Henry rifle, a Volcanic pistol, and a Model 1866 Winchester lever-action.

William H. Wilson  
Longview, Texas

### New Collector

July GUNS arrived yesterday and is as always, full of interest. Article by David M. Brown, of especial interest! Something to file and keep! This new collector never heard of all those different caliber Colts before!

I always learn a lot when I read GUNS—the best of its kind in print. Thanking you again and waiting for more education in future issues of GUNS.

R. Horace Grigg  
Philadelphia, Pa.

### "Telorvech"

The article, "Let's Outlaw Buckshot" (something I wholeheartedly favor) has, on page 35 of your June '65 issue, a picture printed in reverse. A quick glance at the "Chevrolet" name on the tailgate should verify this. Did you goof or are they backward down there?

Congratulations to Mr. Hughes for a fine article.

Robert Koniak  
Brooklyn, New York

*Photo reached us this way; the negative had been flopped in making the print.—Editor*

### Stand And Be Heard

A letter I recently read raises a most interesting point in opposition to the type of legislation proposed by Senator Dodd. Such legislation proposes to go back to medieval concepts in attaching the thing which causes the injury rather than the person who misuses the object. How reactionary can one get? It is interesting to note that medieval medical practice often prescribed the appli-

cation of medicine to the blade of a sword or a knife rather than to the injury caused by the weapon! Quite obviously, the same type of thinking prevails today among some of our legislators both in Congress and State Government.

I am a member of the Shooters Club of America, and I expressly commend the fine work being done by your magazine and this club in opposing anti-gun legislation.

Allan C. Schieck  
Lt. Colonel, USAF  
APO San Francisco

Keep up the good work on this crazy anti-gun legislation business. I am "talking it up" among my fellow shooters, asking them to please contact their Congressmen and get their two cents worth in, and never to leave it up to somebody else. We who love to shoot, hunt, and enjoy our rights to possess and use firearms must all "stand up and be heard." Naturally, I am referring to those people who use guns legally and for rightful purposes only.

Gene R. Olsen  
Sioux City, Iowa

### Pro-Gun Law Booster

Enclosed you will find my check for membership in your Shooters Club of America.

I read and enjoy your fine magazine and save all the copies I can get. I am fully in back of your actions on anti-firearms legislation, and I think it is a good program you have going in educating the public about a pro-gun law. I believe it should be started in the schools around the country.

S/Sgt. Eugene S. Watters  
El Paso, Texas

### Sacco-Vanzetti

I have at this late date just seen the May 1963 GUNS, and I am interested in Shelley Braverman's article on the Sacco-Vanzetti Case. He made a false assumption about the bullet No. III and the cartridge case mentioned. While it is true that Winchester at that time loaded two types of .32 automatic cartridges, it is likewise true that the bullet with the knurling (shown in the photographs as representing the fatal bullet) was loaded into a smooth uncrimped case, the type mentioned in the article as the Fraher case. The smooth type of bullet was loaded in the case with the crimp.

Leslie L. Smith  
Ballistician, Florida Sheriffs Bureau  
Tallahassee, Fla.





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tion than you have ever seen before in a .22 autoloader. The new 10-shot rotary magazine stays reliable because it has feed lips of solid alloy steel. Handsome appearance, including an oil-finished, solid walnut stock, is a bonus extra. Weight is 5 pounds. Price: \$54.50.

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**OUR MAN IN WASHINGTON**



CARL WOLFF

**POLITICS AND THE GUN LAWS**

The Republicans are looking around for issues to win votes, and the Democrats are determined to give them as few issues and votes as possible. To this end, there have been increasing indications that the lawmakers have at last become aware that many voters are gun owners.

Consider a couple of major last efforts aimed at speeding gun restrictions toward enactment by Sen. Thomas Dodd (D., Conn.) during the first session of the 98th Congress. In both cases, some curious things happened.

The most significant act by Sen. Dodd was a personal visit to riot-torn Los Angeles. Behind the move was the contemplated introduction of yet another piece of restrictive firearms legislation. The new bill would have given a Federal Government official the authority to stop the sale of all firearms by dealers in an area, if in the official's opinion, civil disorder threatened.

The other action by Sen. Dodd was calculated to force the Administration's existing bill (S. 1592) out of the Judiciary Committee under which his Subcommittee reviewed the measure.

Shortly before Dodd went to Los Angeles, a nationally published newspaper columnist declared a classified report by the Dodd Subcommittee outlined an amendment to S. 1592 by Dodd giving the gun sale stopping authority to the government. It was a planted story whereby public reaction might be measured. The article made it sound like a good idea. It pointed out that thousands of firearms had been purchased during the disorder in Watts, Los Angeles. It did not say that rioters stole guns along with other merchandise from looted and burned stores. The columnist did not report that the legitimate sales of firearms were to persons in other areas of Los Angeles which, the news media said, was under threat of attack by the expanding riot.

No such official amendment to S. 1592 ever existed. The confidential report to which the columnist referred, had been prepared before the Watts riots. A check with the Dodd Subcommittee disclosed, however, that the staff was in Los Angeles in preparation for the introduction of a new bill.

Senators of the Subcommittee were informed on the evening of Friday, Sept. 17th, that Chairman Dodd had decided to hold two days of public hearings on the



sale of guns during the riots. The hearings were to take place in Los Angeles in four days, the following Tuesday and Wednesday. This major development was short notice, even for Sen. Dodd who rules the Subcommittee on much of a day-to-day basis. When the other Senators found out about the hearings, the gun displays used by Sen. Dodd in Washington had disappeared, apparently sent to Los Angeles.

#### L.A. HEARINGS CANCELLED

By Monday, Sept. 20th, one Subcommittee Senator had rushed to Los Angeles and another was en route. Sen. Dodd, the same day, disclosed the hearings had been postponed.

Officially, Dodd's office reports he was needed in Washington. From other sources, reports are that Dodd was told to pack up and get out. Just who determined Dodd should not hold the hearings and apparently not introduce the new gun bill is not known. Some suggest the White House, others the Governor of California. Whatever the reason or reasons, one indisputable conclusion stands out: this was rapidly becoming a hot political issue. Those who legitimately purchased guns to protect their families and homes were about to be labeled as sinister or as having committed a dishonorable act. There is still pending the unanswered question of why troops were not called out for some 48 hours after they were needed. Couple these things with the coming gubernatorial election in California, where Republicans stand a good chance of defeating the Democrats, and it makes an explosive political situation.

Still wider election implications exist. Democrats, friendly to gun owners, do not want to be mislabeled by the Republicans. One news source in Washington, a Republican, suggested a real political backfire was in the making. The issue was plain; should a man have the right to protect his home when authorities have failed in maintaining order?

The idea of the new bill and the investigation seems to have started because of a feature article in one of the national news magazines on the sale of firearms when civil disorder breaks out. At a first glance Sen. Dodd apparently saw a chance to create more anti-gun headlines, then tested the idea in a syndicated news column. Next, he backed down when the chance of political repercussions became imminent.

The second action by Sen. Dodd happened in an executive session of the full Judiciary Committee. Dodd suggested he would support a couple of measures other committee members wanted to report out, if the members would, in turn, support the gun bill. Reportedly, a member who favored the other bills informed the membership that he would reverse his vote if a deal were made with Dodd.

The reversal by the Senator would nullify Dodd's proposed swap. The other bills were still reported out, however, because Dodd voted for their release anyway. It is not known if Dodd got any pledges for the future release of S.1592.

In committee, as it should be, members trade and vote on legislation behind closed doors. This is why it is so important that each lawmaker be convinced that the majority of his constituents do not want the proposed additional firearms restrictions.



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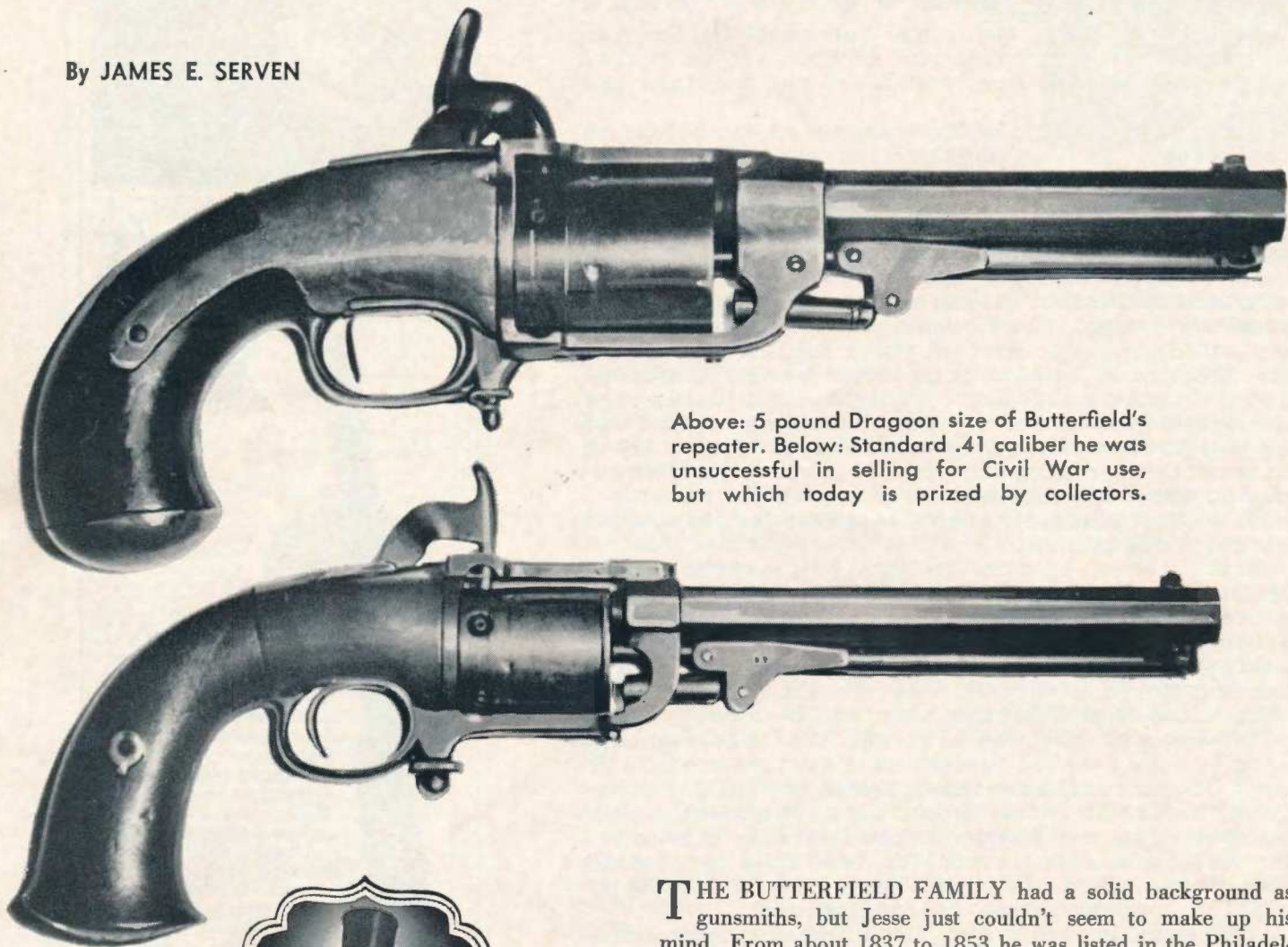


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# THE BUTTERFIELD GUNS

By JAMES E. SERVEN



Above: 5 pound Dragoon size of Butterfield's repeater. Below: Standard .41 caliber he was unsuccessful in selling for Civil War use, but which today is prized by collectors.



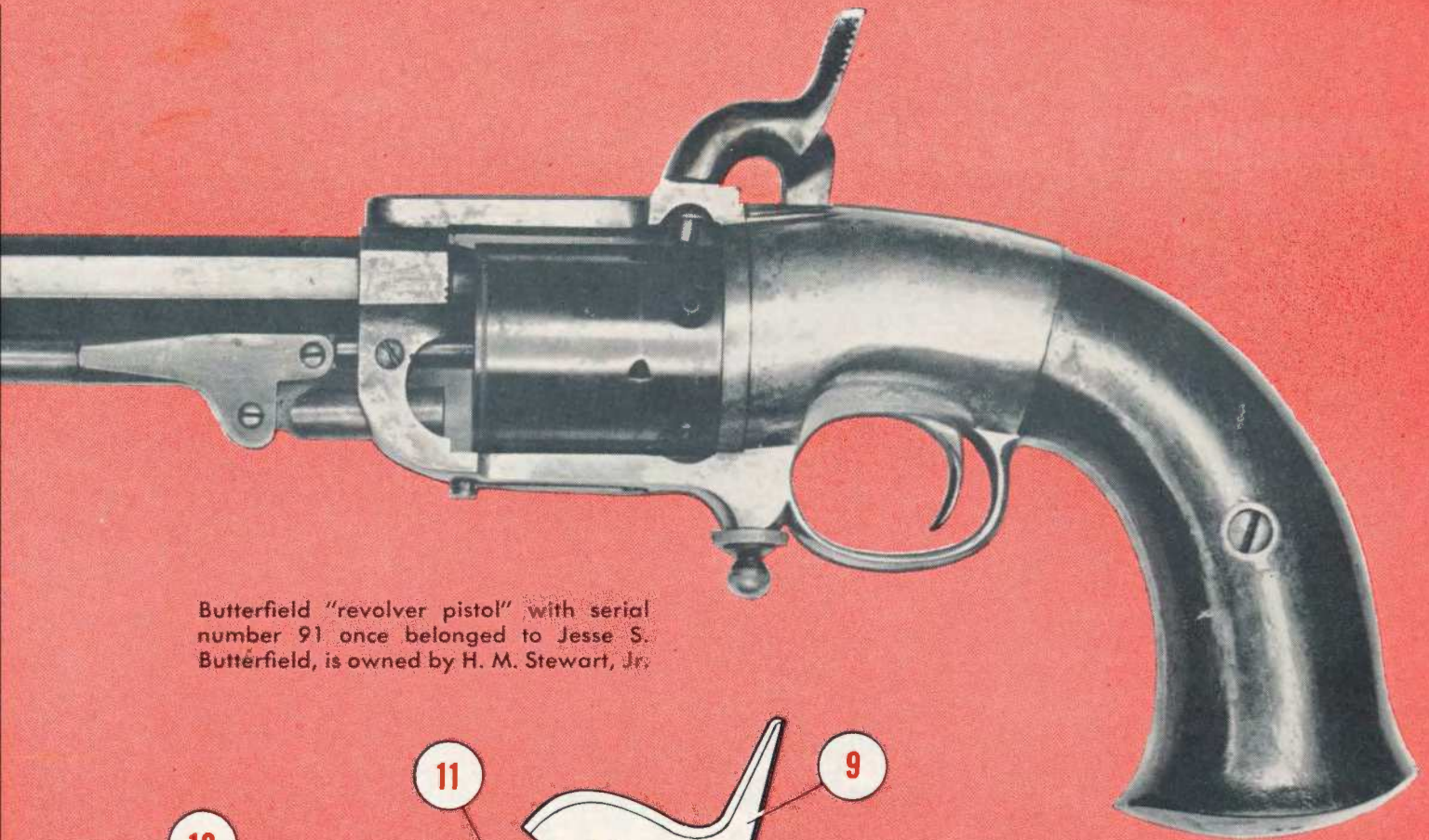
Jesse S. Butterfield, sporting a cravat and a stovepipe hat, proudly poses with one of his pistols in old daguerreotype.

THE BUTTERFIELD FAMILY had a solid background as gunsmiths, but Jesse just couldn't seem to make up his mind. From about 1837 to 1853 he was listed in the Philadelphia directories variously as a painter, "white & blacksmith," and tinsmith. In 1853 and several years thereafter he was designated as an engineer. No occupation was indicated in 1858-59, but in the years 1860-65 he blossomed out as a gunmaker. His claim to public notice as a gunmaker faded rather quickly, but it has spread his name indelibly, though faintly, on the pages of firearms history.

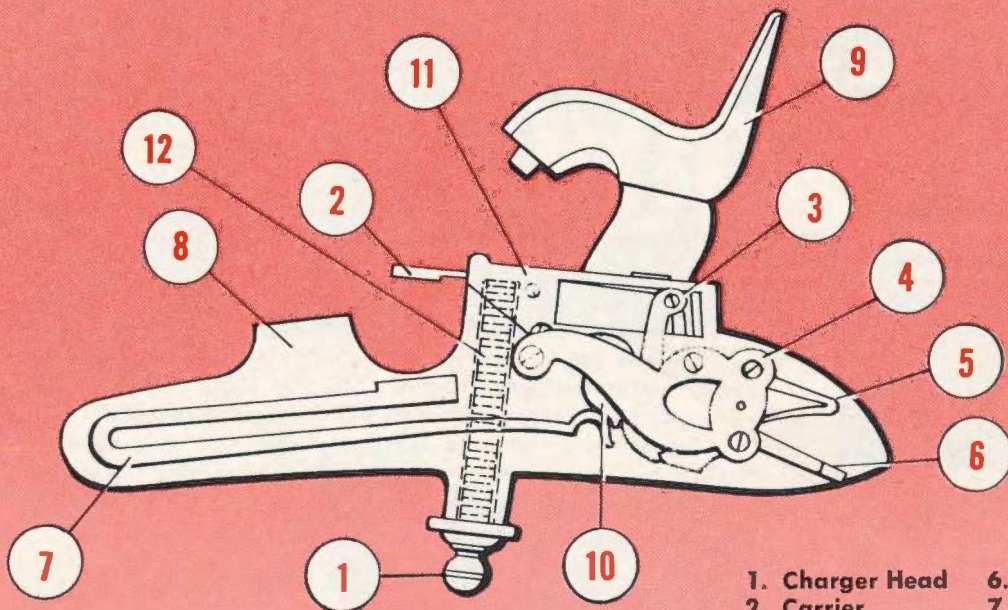
Mystery and controversy surround the manufacture of Jesse S. Butterfield's patent-primer arms. Some writers have expressed the belief that Butterfield pistols and revolvers were made by John Krider who operated a gun shop on the northeast corner of Second and Walnut in Philadelphia for many years. Others have suggested that the Butterfield arms may have been made by C. Sharps & Co. of Philadelphia. Both companies were active at the time Butterfield arms were made.

The Krider firm was one of many prominent Philadelphia suppliers of arms. In the 1867 account published in "Phila-





Butterfield "revolver pistol" with serial number 91 once belonged to Jesse S. Butterfield, is owned by H. M. Stewart, Jr.



#### PARTS KEY

- |                 |                 |  |
|-----------------|-----------------|--|
| 1. Charger Head | 6. Sear         | 11. Carrier Cover  |
| 2. Carrier      | 7. Mainspring   | 12. Charger (with disc primers) — shown by dotted lines. |
| 3. Tumbler      | 8. Lockplate    |  |
| 4. Bridle       | 9. Hammer       |  |
| 5. Sear Spring  | 10. Lock Swivel |  |

delphia and its Manufactures," Krider is described as being identified with the gun trade of the city since 1837. While Krider's old advertisements offered arms "of my own make," greater attention was devoted to promoting arms and accessories of the prominent American arms manufacturers such as Colt, Allen, Whitney, and others, along with imports from England and Europe. Krider literature does not mention Butterfield firearms.

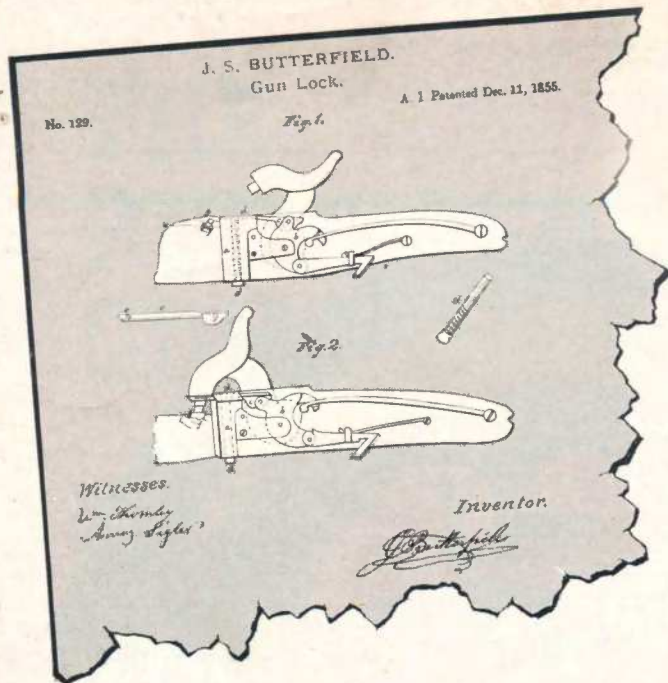
The deduction that C. Sharps & Co. may have made the Butterfield patent-primer arms has arisen from the rather weak premise that, because Benjamin Butterfield and Albert S. Nippes made some of Christian Sharps' earliest sporting rifles in 1851, Sharps in turn may have offered

his later manufacturing facilities to Jesse Butterfield. Christian Sharps' infatuation with priming devices of the Butterfield type is advanced as another argument.

In the absence of anything more concrete than conjecture, and with strong evidence opposing these views, we must conclude that Butterfield arms were actually made in the Butterfields' own shop.

Eli Butterfield wandered off to Massachusetts, where he engaged in gunmaking, but most of the family lived in Philadelphia on Frankford Avenue. This particular portion of Philadelphia County, from 1820 to 1854, was in a municipal corporation known as the District of Kensington. Thus we can easily understand why the early Sharps





rifles, described in "The Scientific American" of March 8, 1851, were offered for sale by "Butterfield & Nippes, Kensington, Philadelphia."

Benjamin Butterfield was the senior member of the Butterfield gunmaking clan and in partnership with Albert Nippes they made the early Sharps sporting rifles. From him Jesse doubtless learned the "white and blacksmith" trade. Among the papers of the late W. Stokes Kirk, Sr., (an early Philadelphia dealer in military goods who was ranked nationally with Francis Bannerman of New York), was found this notation: "Jesse Butterfield was a successful Philadelphia blacksmith who made a specialty of making forgings for the gunsmiths."

Benjamin Butterfield lived only a few years after completing the Sharps contract, but his widow Sarah continued to live near Jesse on the west side of Frankford Avenue. In 1861 we find listed: Jesse Butterfield, gunsmith, 1524 Frankford Ave.; Sarah Butterfield (widow of Benjamin), 1518 Frankford Ave.; Butterfield & Son, gunmakers, 1528 Frankford Ave.

Ever since the crude attempts at automatic priming for flintlocks, and more especially after Dr. Alexander Forsyth's detonating system came along in the early 1800's, inventors had been striving for a successful automatic detonating system. Dr. Edward Maynard devised a coated strip of detonating compounds in 1845, and his efforts were followed by many other devices prominent among which were the Lawrence patent for feeding wafer-like discs from a tubular reservoir to the nipple by action of the hammer, as used in Sharps guns. Jesse Butterfield's system was somewhat similar to the Sharps principle. Jacob Rupertus of Philadelphia developed a self-priming system in which the primer discs fed automatically into the hammer face.

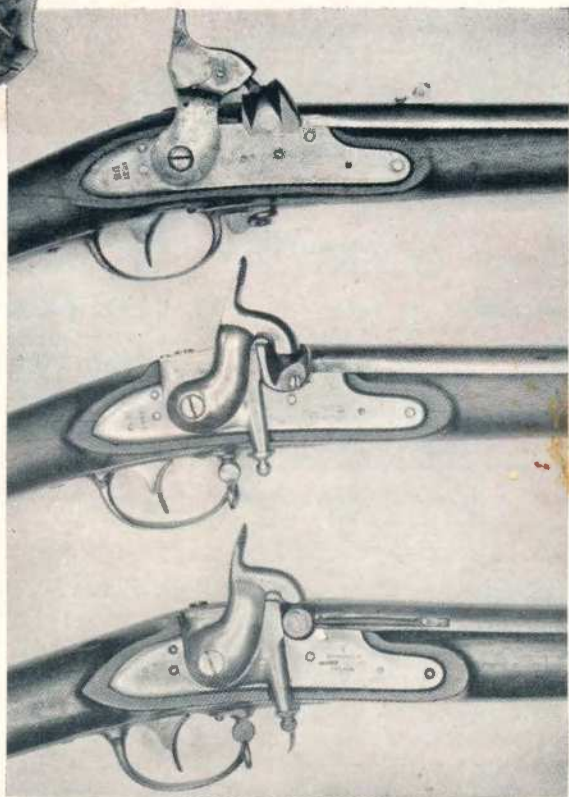
The greatest period of activity for these self-priming contraptions was between 1845 and 1865 and, of course, prior to the general use of self-contained cartridges. Their most valid claims to usefulness were that they were designed to provide more rapid firing, to provide waterproof and surer ignition, and to eliminate fumbling for small percussion caps with numb fingers on a cold day.

In practical appraisal, by soldier and by sportsman, patent priming devices inspired little confidence; their operation was too easily subject to failure. The reliable percussion cap was the overwhelming favorite. But each novelty in firearms has some supporters and those who were preoccupied with automatic priming devices were apparently hard to discourage.

Jesse Butterfield's interest in this field began through his knowledge of the circular capping box attached to Christian Sharps' first sporting rifles. Closer contact with automatic priming came through the Maynard device installed in the second model Sharps rifles made in the Butterfield & Nippes Shop.

Having changed from blacksmith to "engineer" after Benjamin's death, Jesse turned his hand to inventing. His absorbing interest was in the development of a gun lock containing a self-feeding priming device. At the conclusion of experiments from which his design evolved, he was granted letters patent Number 12,124 dated January 2, 1855. Even more important was his "Additional Improvement No. 129," dated December 11, 1855. It is this latter patent date which appears on Butterfield firearms or converted locks.

(Continued on page 41)



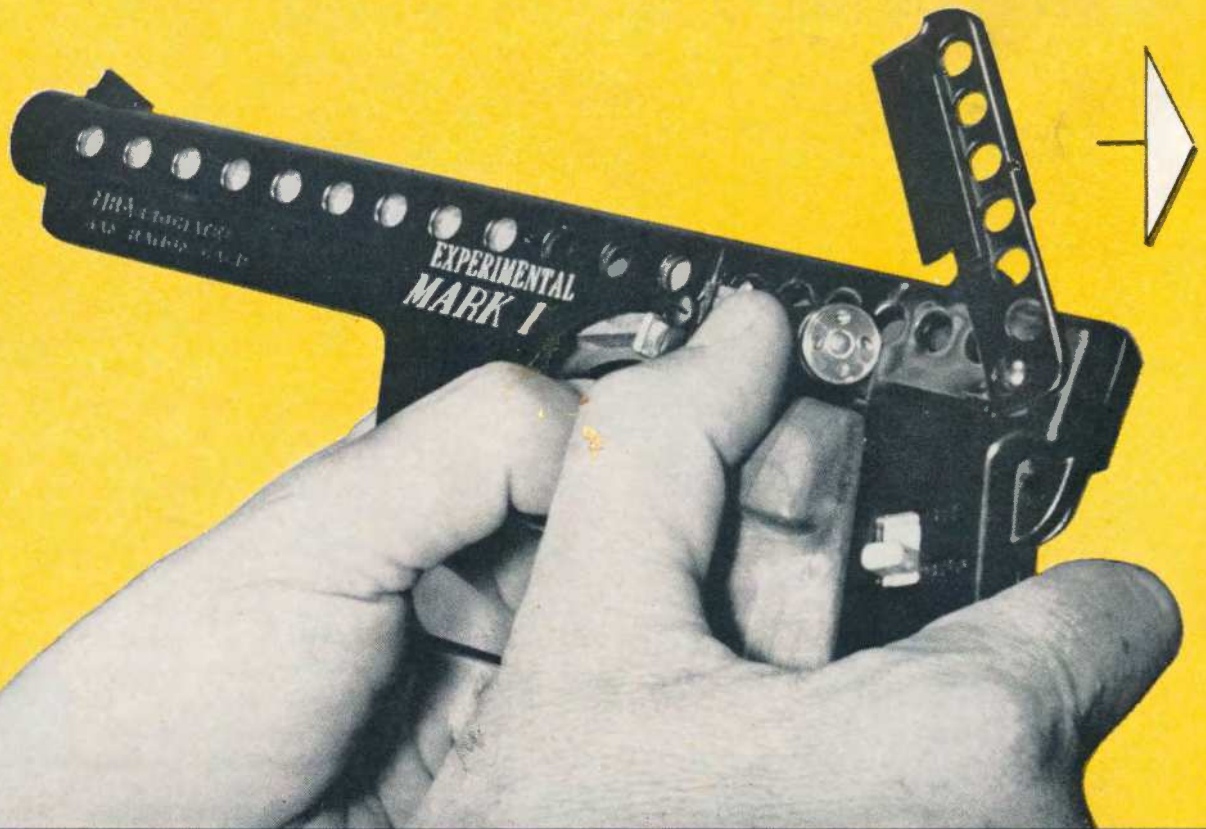
Butterfield percussion derringer differs from Derringer guns only in priming magazine, top. A converted U.S. musket with Ward priming hammer, Butterfield 1859 U.S. conversion, trial Butterfield breech-loading musket conversion.



**EXCLUSIVE REPORT!**

**WE FIRE  
THE**

**GYROJET  
ROCKET GUNS**







MBA president Bob Mainhardt poses with first deer downed by rocket.

By DANIEL K. STERN

**D**ON'T BE SURPRISED if this fall a hunter friend confides, "I just *rocketed* a nice eight-pointer over the weekend." No, he hasn't lost his marbles. He may well have bagged his deer with a rocket-firing carbine.

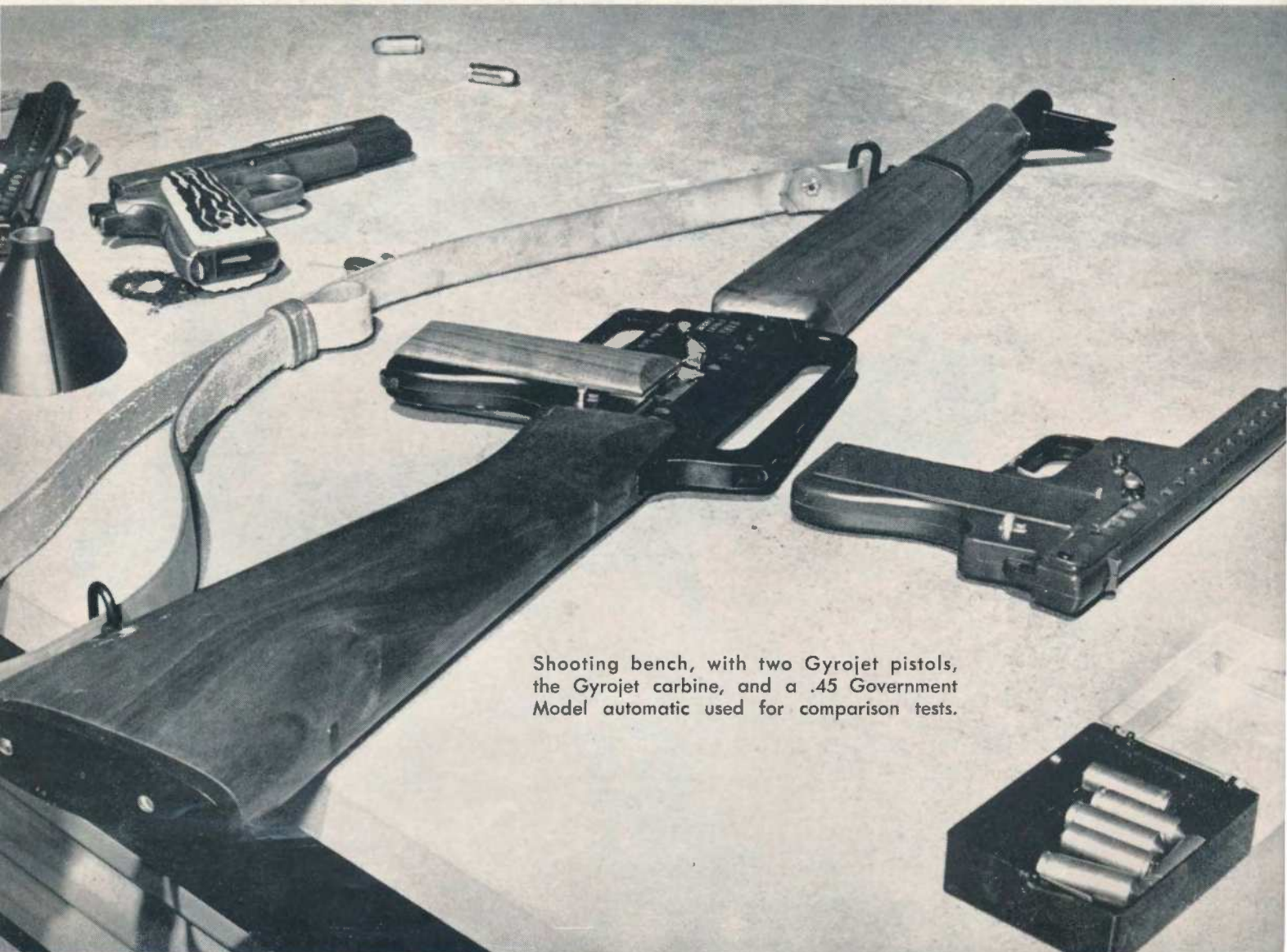
Yes, what may well be the "deer gun of the future" is already a reality. It is a semi-automatic, six shot, carbine-type launcher which fires a finless 13 mm (about .51 caliber) steel gyro rocket projectile. This "bullet" has a burnout weight (weight after all propellant has been used up) of 185 grains, a maximum velocity of 1250 fps, and develops 700 foot pounds of energy at burnout.

This is 50 per cent greater than the muzzle velocity of a .45 automatic, al-

most double its muzzle energy, and roughly equal to the .357 Magnum. There have also been developed other 13 mm rocket loadings which can get as high as 3000 fps at burnout and deliver in excess of 1500 ft. lbs of energy.

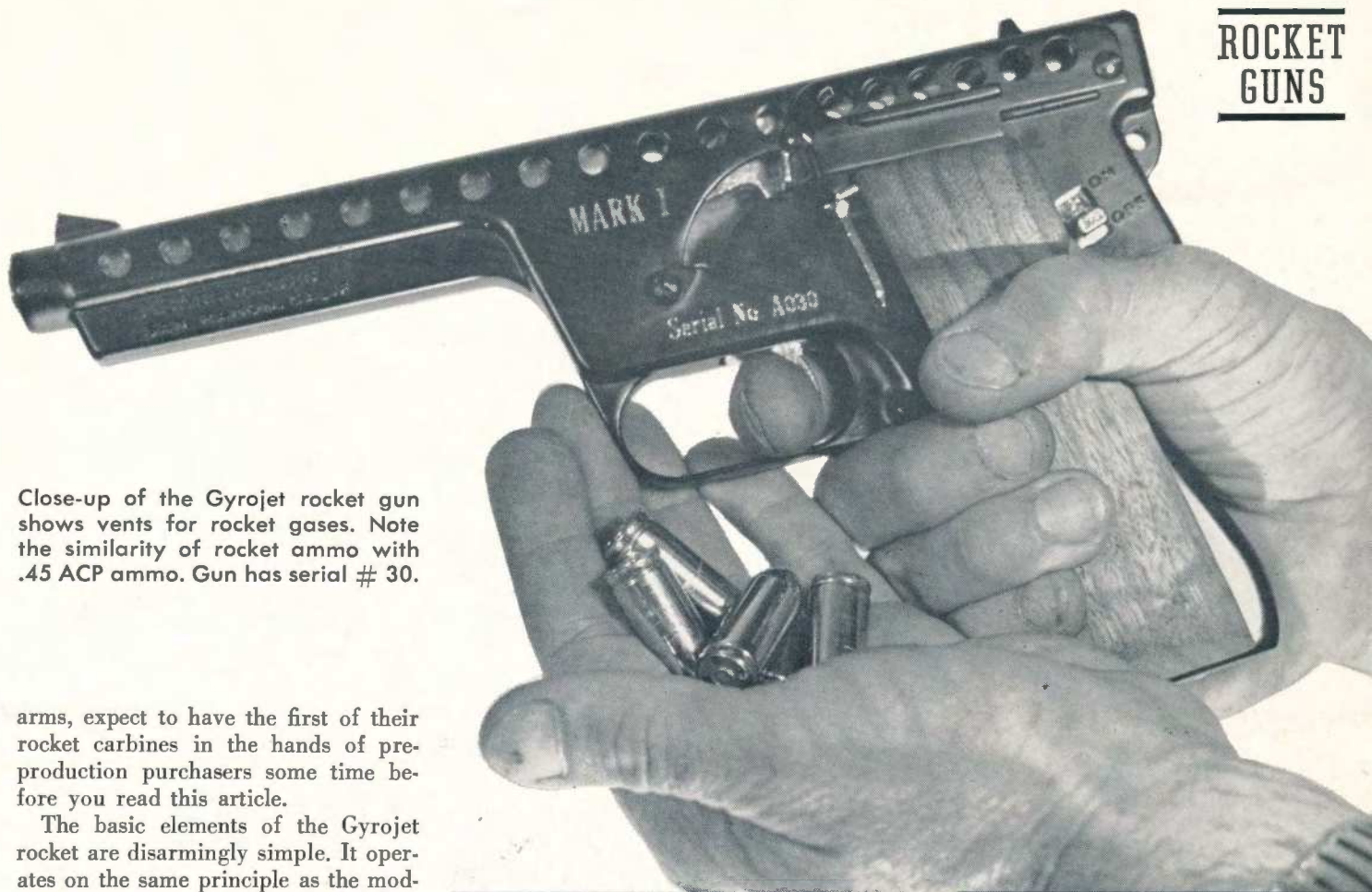
All of this from a carbine weighing about four pounds with sling and measuring less than three feet long! And all of it done with almost no recoil! If it sounds impossible, it isn't. Most of the difficulty in accepting it comes from trying to equate conventional arms and terminology with this completely new concept.

MB Associates, of San Ramon, Cal., the developers and producers of the Gyrojet carbine and other rocket-firing



Shooting bench, with two Gyrojet pistols, the Gyrojet carbine, and a .45 Government Model automatic used for comparison tests.





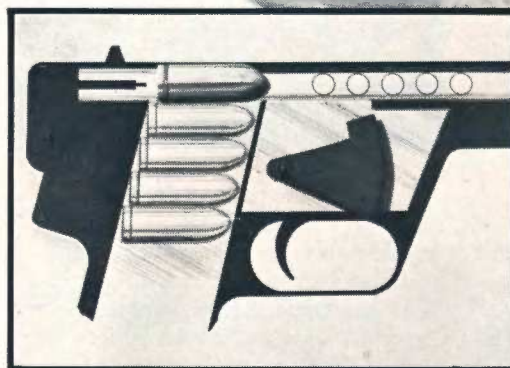
Close-up of the Gyrojet rocket gun shows vents for rocket gases. Note the similarity of rocket ammo with .45 ACP ammo. Gun has serial # 30.

arms, expect to have the first of their rocket carbines in the hands of pre-production purchasers some time before you read this article.

The basic elements of the Gyrojet rocket are disarmingly simple. It operates on the same principle as the modern space rockets, using a solid fuel propellant. As this propellant burns, it expels hot gases from the rear nozzle section which push the rocket (which in the case of the Gyrojet is also the entire projectile) forward. The solid rocket fuel used is a double based propellant in the form of a single perforated cylinder with a hollow core. The inner surface is coated with a special igniter which assures instantaneous combustion, and the outer surface is coated with an inhibitor. This permits a control of the rate of generation of the hot gases in the chamber.

In a letter to MBA, Dr. Wernher von Braun, Director of NASA's Space Flight Center in Huntsville, Ala., wrote: "... I have read with interest the report, 'Miniature Rockets,' which you recently sent me. The considerations in this very thorough treatment of miniature rocketry are reminiscent of some of the problems we are encountering in our daily work, although essentially at the opposite end of the size spectrum. The progress you have made in proving feasibility and usefulness of these little rockets is noteworthy. I foresee many valuable applications in the weapons field."

From this, it is apparent that the age of rocket-firing small arms is here,



Schematic cross section of rocket handgun shows how rockets are stacked in magazine. Left, cocked and ready to fire; right, hammer drives rocket into firing pin. As rocket starts down barrel, it re-cocks the hammer.

and that the Gyrojet is the first of what has been called "the most revolutionary development in small arms in at least a hundred years."

To get a first-hand report on this new gun, photographer Al Magazu and I visited MB Associates in mid-August and had a hand in firing the prototype of the first clip-loaded rocket carbine. The MB plant and range occupy a 40-plus acre site in the foothills of California's coastal mountains a few miles east of Oakland. The site was once home for a nest of Nike missile launchers, and the firing range is on one of the old launching pads, a few

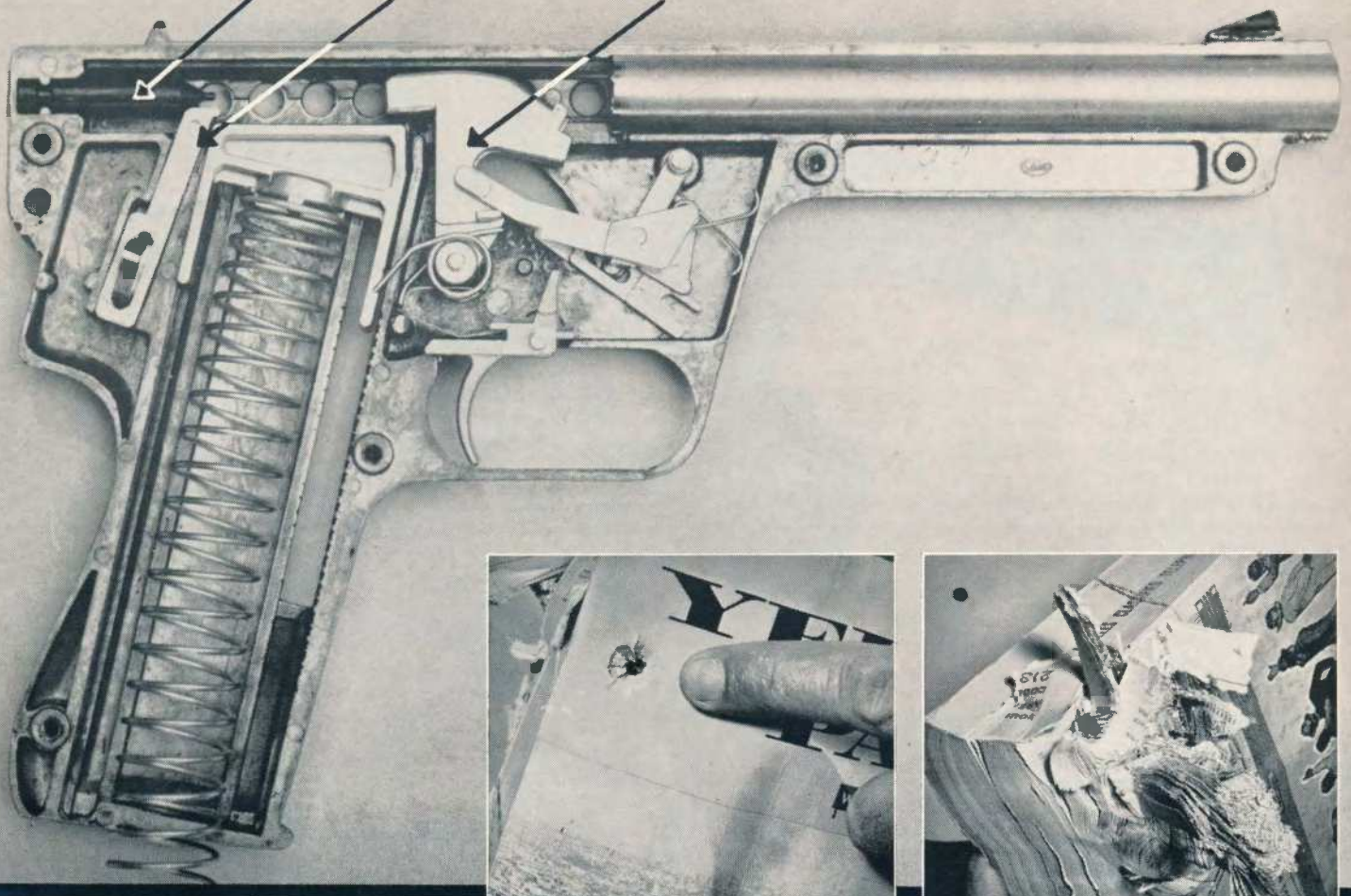
hundred yards above and behind the manufacturing area.

Accompanying us to the range to direct the carbine's debut was Robert Mainhardt, president and chairman of the board for MBA (the "M" stands for Mainhardt), and a veritable rocket of a man himself. Incidentally, Mainhardt is the man who shot the four-pointer mentioned earlier. Although this was done with one of the firm's pistols, at a range of about 30 yards, it is probably the first instance on record of a hunter bagging a deer with a hand-fired rocket.

Since California's coastal deer hunt-



FIRING PIN SAFETY HAMMER



Near right photo shows entry hole of rocket; note how spine of book is torn. Extensive damage, excellent penetration of book at the far right.



ing season was underway, we weren't surprised when we heard the occasional crack of an unseen rifle. Mainhardt, a husky man in his early 40's, motioned toward the distant shots. "I feel sorry for those fellows," he said. "Imagine them lugging a nine or ten-pound rifle and heavy ammo up and down these hills in this heat (it was well over 90°) when they could be carrying a little four-pound rocket carbine like this, firing lighter ammo, and knowing that every time they let a shot go, the whole business, not just the bullet end, was going to bang into their game target."

At that moment, however, I wasn't feeling too sorry for the hunters. At the request of GUNS' editors, I was lugging a gallon plastic jug full of water and the biggest phone directory I could lay hands on—the Los Angeles Yellow Pages, all 2,164 pages of it. It had weighed six pounds dry, but I had soaked it with water, and it weighed

considerably more at that point. It had also bulged half-again its original 2 $\frac{3}{8}$ " thickness. These were to be our "special" targets. We laid them down next to a sheet of plywood which had a 5" bull painted on it to serve as a target, and walked back 45 yards to the firing point.

"I haven't had this carbine on the range before," Mainhardt explained. "The fellows put it together just in time for me to take to the Disneyland show a month ago, and I have no idea how the sights line up. This is also our first effort using a detachable clip. Our pistols, you know, are also six-shooters, but the rockets are fed directly into the built-in magazine."

While he was talking, I looked over the carbine. It had the general appearance of an ultra-modern military weapon with its pistol grip amidships, satchel-type carrying handle and a straight-line stock. The forearm was two-piece and of nicely-finished walnut

with the same wood in the butt. A single barrel band also served to carry the front sling loop. From the die cast aluminum-nickel barrel housing, a triangular front sight mount projected a good inch and a half. Inside its arms was the sight blade.

The 18 $\frac{1}{4}$ " steel launching tube was covered at the muzzle by a small funnel, and I asked if this was a flash hider. "No," replied Mainhardt. "It's a deflector that breaks up the turbulence set up by the rocket when it goes through Mach I." (Mach I, the speed of sound, is about 700 plus miles per hour at sea level, depending upon temperature and humidity factors. This works out to about 690 plus fps.—Editor.)

Meanwhile, I located the rear sight, a coarse peep guarded by fins, on the top of the carrying handle, and found the sighting radius to be about 20 inches. Putting the carbine up to the shoulder, I found that it did not line



# ROCKET GUNS

up very easily or quickly, partly due to a smooth and slippery composition buttplate. I commented on this, and Mainhardt reminded me that this was a prototype, and that both rocket guns were subject to further improvements.

At the rear of the launching tube, above the pistol grip, a series of ports are provided in the housing to vent the hot rocket gases.

"Originally, in our pistols," explained Mainhardt, "we used a cast alloy launcher with grooves or channels cut into the 'barrel' and that's all. These grooves weren't rifling, you understand; the four angled ports in the rear of the rocket itself provided the spin. Then we found that we got better results by using the stainless steel tube or liner, so we have added it. It shoots better although we aren't yet sure why this is so."

A conventional trigger releases the hammer which operates from front to rear rather than vice versa. Its sole purpose is to drive the rocket rearward against a fixed firing pin; this detonates the primer and helps ignite the rocket's tube-like propellant. As the rocket moves forward, it pushes the hammer out of its way, recocking the arm for the next shot. The hammer delivers a 20-inch/ounce blow, according to MBA, and has a lock time of 18 milliseconds; or about the equivalent of the old .45 single action.

Mainhardt picked up a round for the carbine. "This is our standard 13 mm rocket. Burnout weight is 185 grains and with its propellant, the whole thing weighs about 230 grains, the same as a .45 auto pistol bullet."

I commented that it looked just like the .45 auto cartridge, only a little bigger. "We intended that it should," he agreed. "We felt that we had to have elements of resemblance to current arms and ammo if we were to gain public acceptance. Actually, I could fire this rocket out of what amounted to little more than a piece of hose, but who'd buy that?"

The rocket, itself, has four major components: the casing; the fuel core; the back plate, containing the four jet nozzles; and the primer. The angle at which the nozzles are set at, about 20 degrees, spins this 13 mm projectile at 200,000 rpm at burnout. Metals of high tensile strength are required to stand the great centrifugal force and must be deep-drawn with an accuracy beyond that of conventional commercial ammunition—concentricity tolerance is kept under .001". The high



Mainhardt loads rocket guns; note .45 ACP gun, ammo. Near barrel is that of production gun with steel liner; early channeled, unlined barrel right.

## BALLISTIC COMPARISONS

Gyrojet Rocket Types	Weight (Grains)	Maximum Velocity (fps)	Maximum Energy (ft/lbs)
13mm Standard	185	1250	700
13mm High Velocity	110	2300	1250
13mm Heavy Weight	310	400	110
13mm Target	110	400	40
13mm Standard Long	275	1500	1400
20mm Standard	675	1100	1900
<b>Conventional Ammunition</b>			
.45 Automatic	230	850	370
9mm Luger Parabellum	115	1140	332
.44 Magnum	240	1470	1150
.357 Magnum	158	1410	695
.38 Special	150	1065	380



The rocket carbine is shown here without turbulence deflector which adds 1½" to 34" length. Standard 13 mm rockets are shown with the test carbine.

centrifugal speed and concentricity enables the rocket to hold its course and not be deflected by brush and minor obstacles, as would an ordinary bullet.

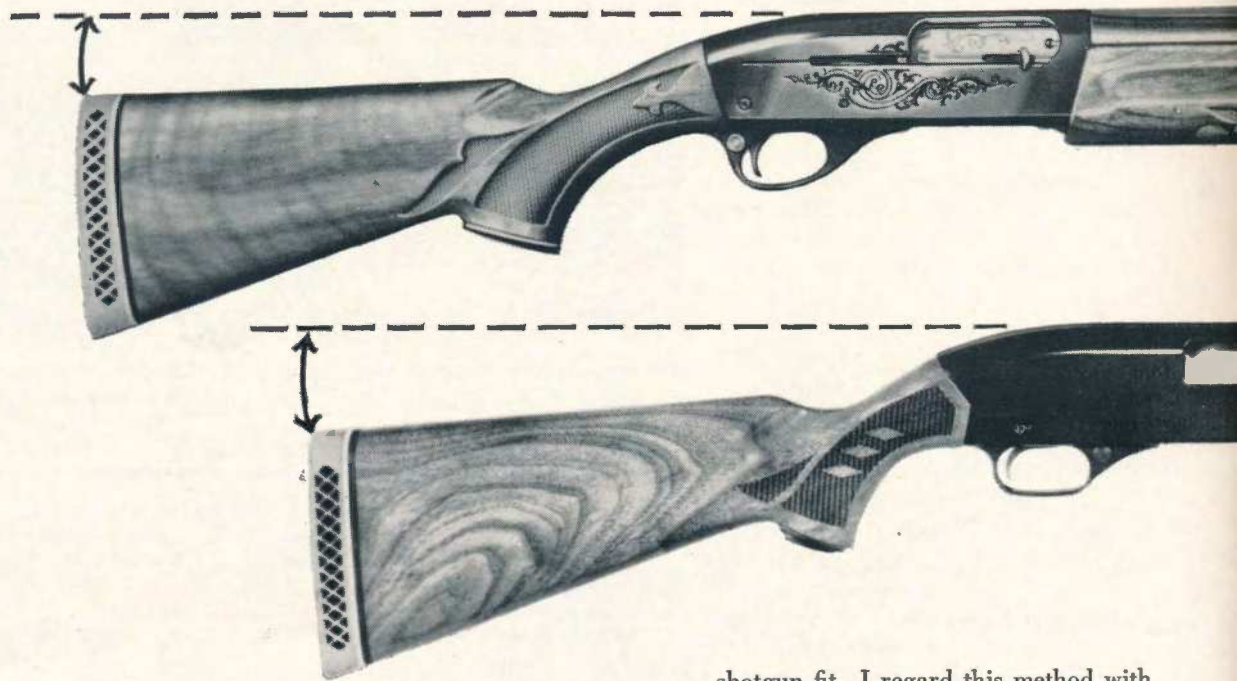
"These rockets are quite accurate," said Mainhardt. "We use Circular Error of Probability, in this case, one mill. Put another way, one-half of the

rockets fired in a group will go into a foot circle at 1,000 feet; and we'll guarantee that all of them will shoot under five mills."

First putting the carbine on safety, Mainhardt explained its operation as he loaded it. The safety works by sliding a metal bar (Continued on page 55)



**DON'T HANDICAP YOURSELF IN SHOTGUNNING  
BY TRYING TO SHOOT WITH A STOCK THAT DOES NOT FIT**



# SHOTGUN FIT MYSTERIES

By JEROME J. KNAP

**I**T IS OFTEN SAID that a properly fitted shotgun stock will make one shoot faster, easier, more naturally, and above all more accurately. And, it is true. Thus it is a source of amazement to me, that so many hunters pay so little attention to proper shotgun fit. A survey, by one large gun shop, indicates that of those who purchased standard production-line shotguns there, less than 25 per cent were properly fitted. Do you belong to this desirable minority? If you don't, you can join by investing a few dollars in stock alterations made by an experienced gunsmith or stockmaker.

It is the shooter, and only the shooter, who can tell if his gun fits him or not. This statement should, however, be

taken with one reservation. I have seen many shotgunners, especially tyros, who thought that their shotguns fitted them. Instead, they were fitting their adaptable human frame to the gun. The shooter must have adequate shooting experience before he can tell if a gun fits him or not.

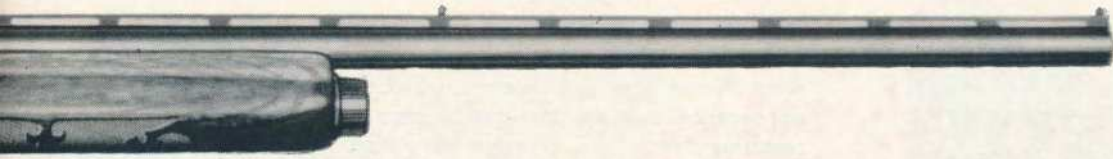
The British ensure proper gun fit by the use of a "try gun," and an expert gun fitter. The stock on a try gun is equipped with a variety of hinges and extensions. The gun fitter has the shooter mount the gun, look down the barrel, swing the gun from side to side, and do a few other things. From time to time, the gun fitter changes the stock dimensions of the try gun. This supposedly gives the shooter a proper

shotgun fit. I regard this method with some skepticism. I will agree that it is a much better way of obtaining proper shotgun fit than by going to a gun shop, picking up the make and model of a gun you want to buy, mounting it to your shoulder and saying, "this is for me." The British gun fitting method, though very beneficial, is not infallible. I know of several cases, for instance, where it failed to some degree mainly because the guns were stocked to be used on driven birds. The stocks of such guns are usually longer and straighter than those required for U.S. shotgunning.

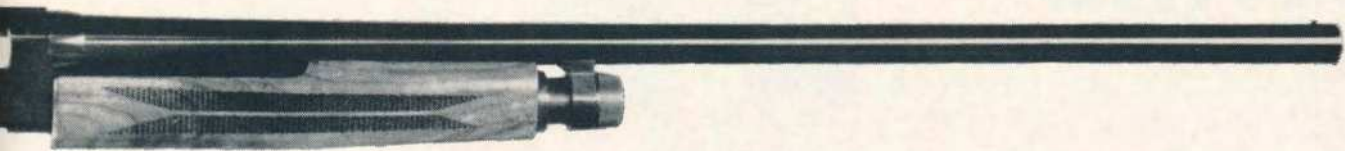
The length of pull is the length of the stock, measured from the center of the trigger to the butt. The pull is correct when the gun stock is at its longest but still mounts easily and feels comfortable without catching on your clothes. If the thumb on the trigger hand bumps your nose or cheek every time you fire, your stock is too short. From this we can see that the shotgun which will be used in a warmer climate, where the gunner will be lightly clothed, can have a slightly longer stock. The duck gun, for example, would have a bit shorter stock since a duck hunter, usually is heavily clothed.

The length of pull is easily altered. If the pull is too long, remove the butt plate and try the gun. If it is still too long, have a gunsmith shorten the stock a little at a time, until the right length





Remington trap gun (top) and Winchester field gun show difference in drop at heel. Although difference is slight, it does affect shooting.



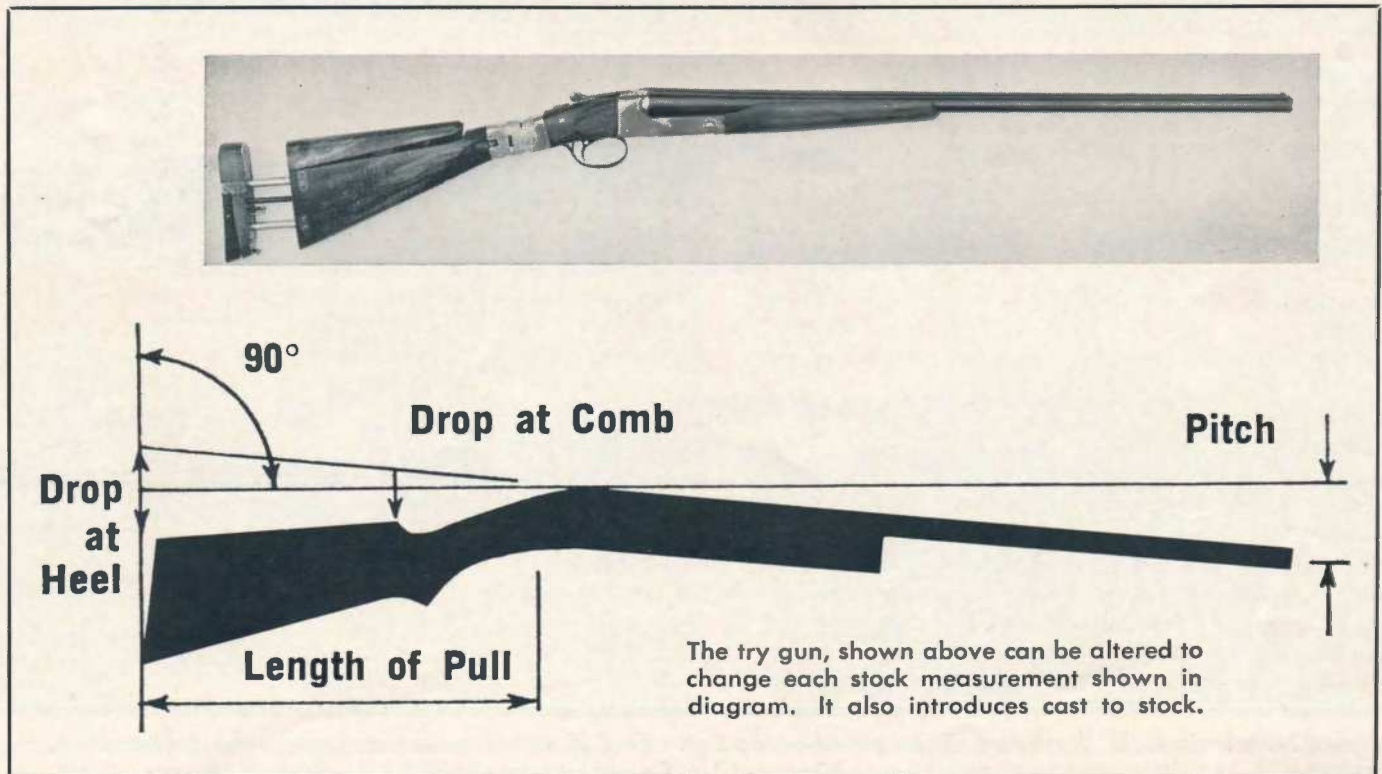
is obtained. To lengthen the stock, simply build up the length with some sort of filler, and when the proper length is obtained, have a gunsmith install a recoil pad or a matching wood filler to the desired length.

Drop at the comb as can be seen in the sketch, is the distance from a line drawn from the top of the gun receiver, back toward the butt. If the comb is

too high, the shooter will see too much of the barrel. This, of course, will make the gun shoot high. If the comb is too low, the reverse will occur. The shooter will then point with the receiver and not with the barrel. Too thick a comb might produce the same results as too high a comb. A man with very wide cheek bones will need less drop at the comb than a man with narrow

face. Trap guns, at times, are built with higher combs than field guns, because the high shooting qualities become an asset on fast rising targets.

The comb is easily lowered by rasping and sanding down to the required height and then refinishing the stock. The comb can be raised by gluing and dowelling a piece of matching wood to the comb, (Continued on page 44)





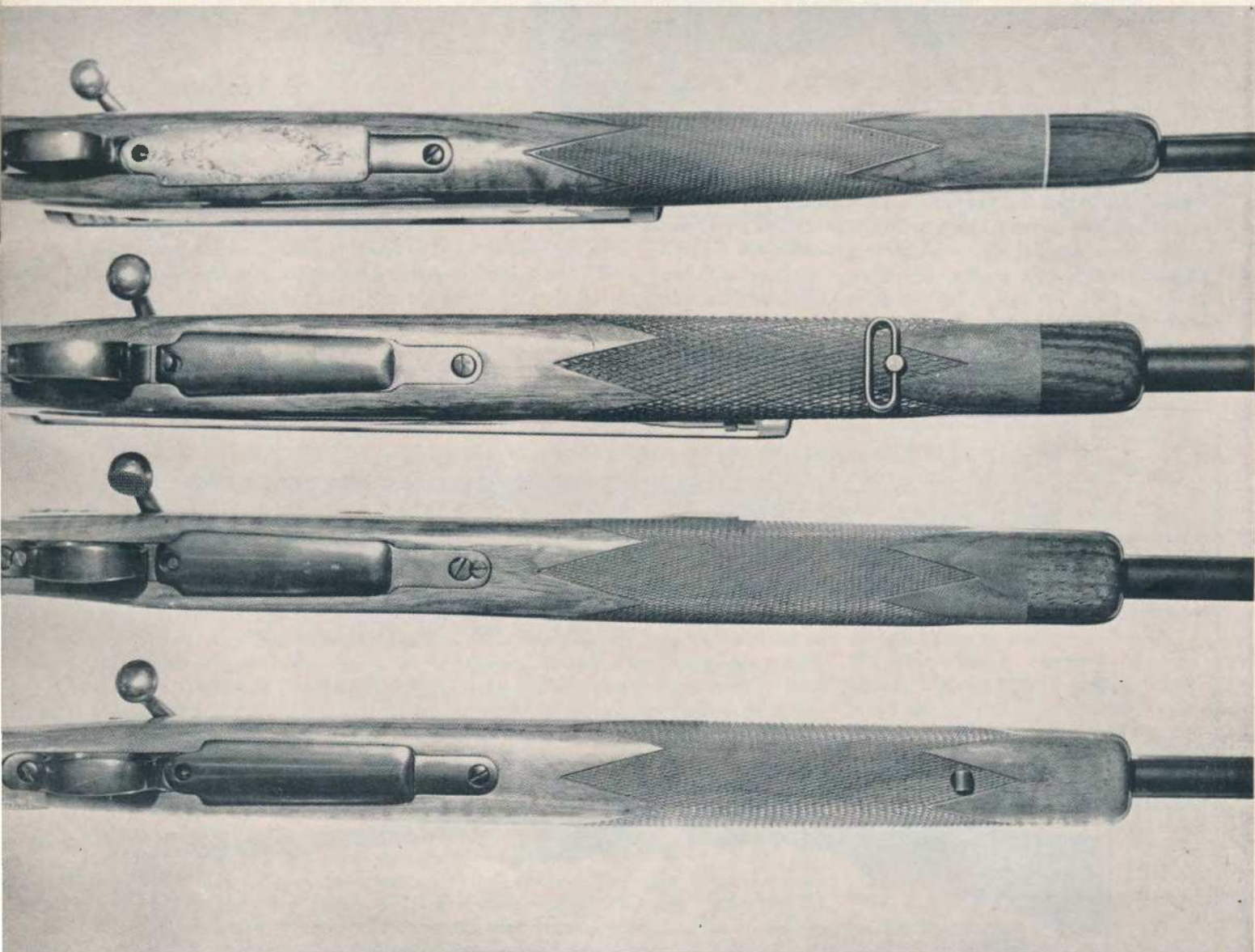
# FORE-END BOLTING

By WILLIAM SCHUMAKER

**G**UNSTOCK FORE-END tips, like women's hats, are often more ornate than practical. Originally they were seldom seen on factory production rifles, and their appearance now on top grade guns is a "get-with-it" resulting from land-sliding customizing trends.

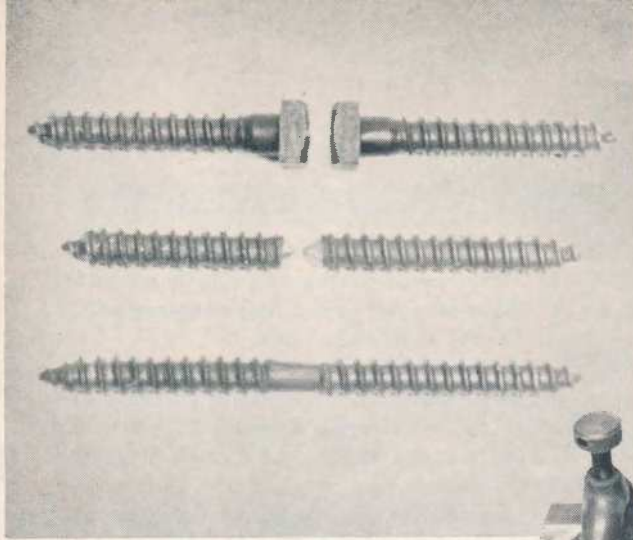
To gunsmiths, hobbyists, manufacturers, and stock blank makers, fore-end tips have been a source of many headaches, growing mostly from difficulties in achieving a permanent, perfect-fitting installation, free of warpage, shrinkage, or expansion out of proportion with the parent woods.

While plastic fore-end tips, with or without contrasting spacers, have pretty much become standard on semi-

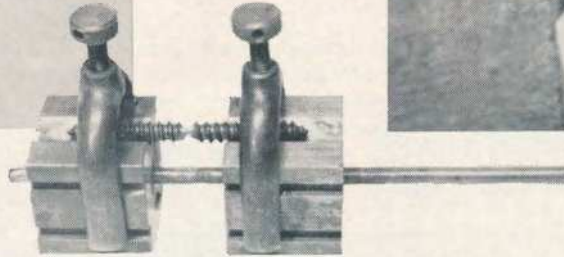


Top: .30-06 Springfield illustrates slight out-of-proportion effect of white spacer and over-long fore-end tip. Bottom: .35 Imp. Whelen on Springfield action without tip. Center two are .243 Rockchuckers on Mauser actions.

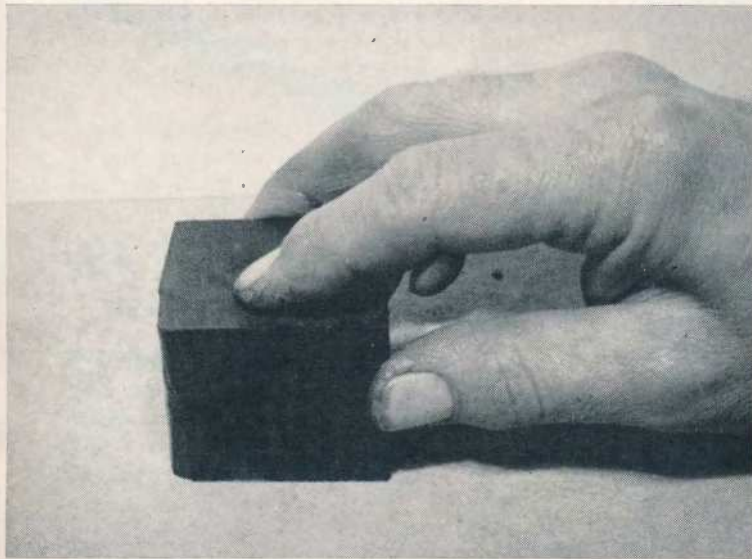




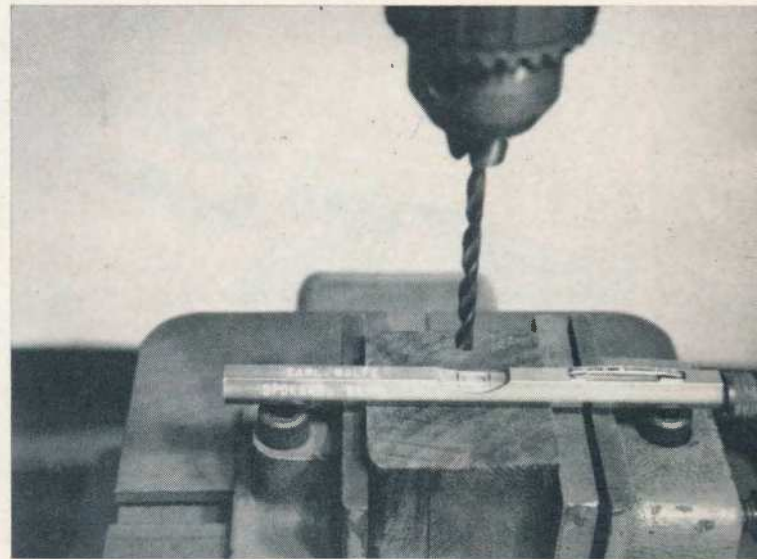
Top: two lag bolts. Center: heads sawed off, end V-ed for welding. Bottom: the completed hanger bolt.



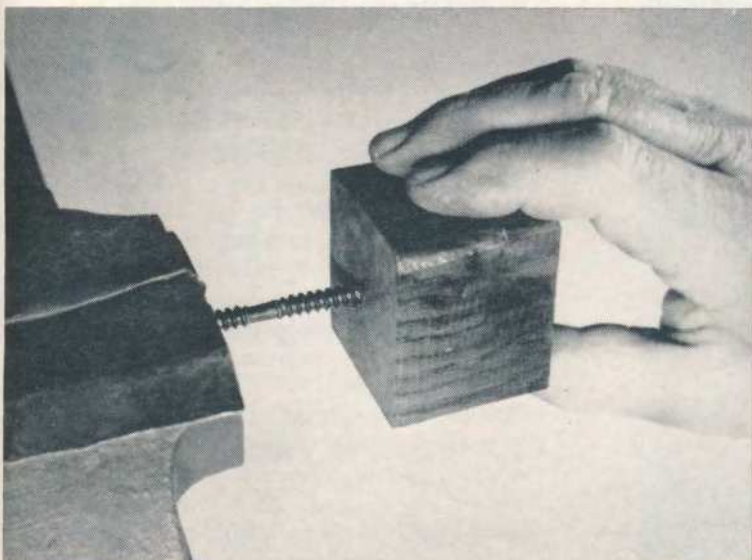
Three-cornered file can be used to sharpen up the threads for a better grip.



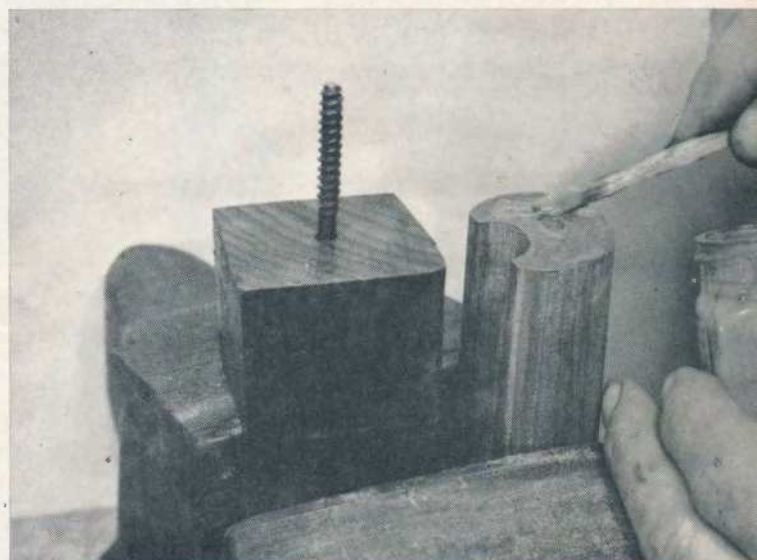
You smooth tip block attaching surface by working it over sandpaper that's backed by a level milled table.



Shimming in drill press vise enables you to get block attaching surface level for a straight hole.



Place the completed hanger bolt in a soft-jawed vise while you twist the block onto bolt firmly by hand.

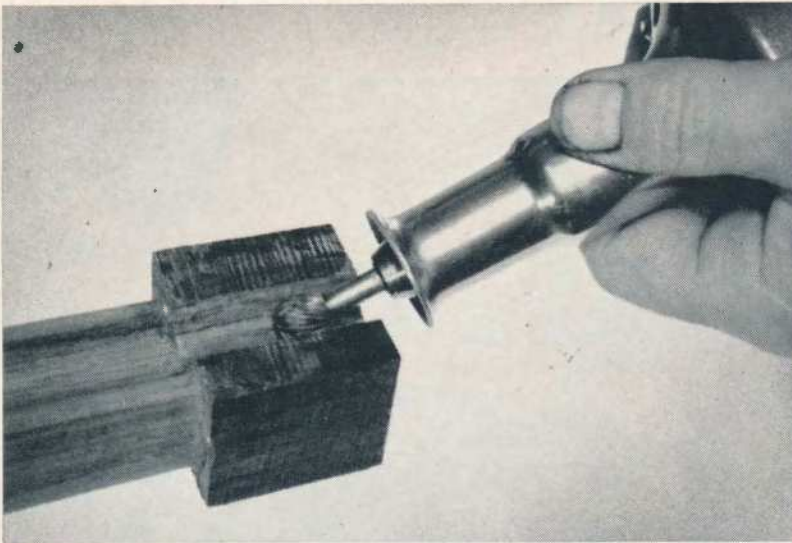
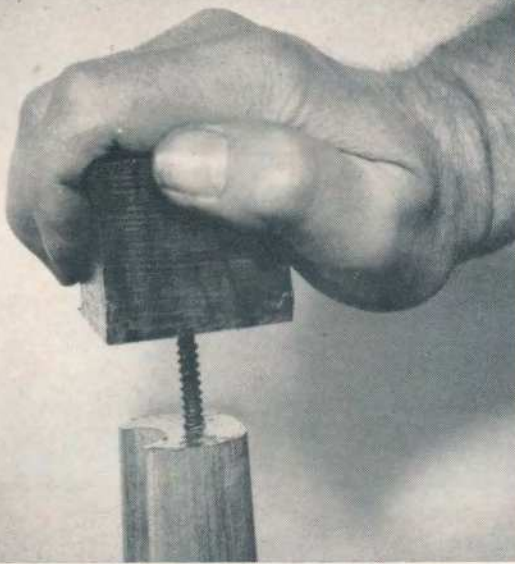


With bolt inside of block, apply small amount of waterproof cement to surfaces that will be joined.

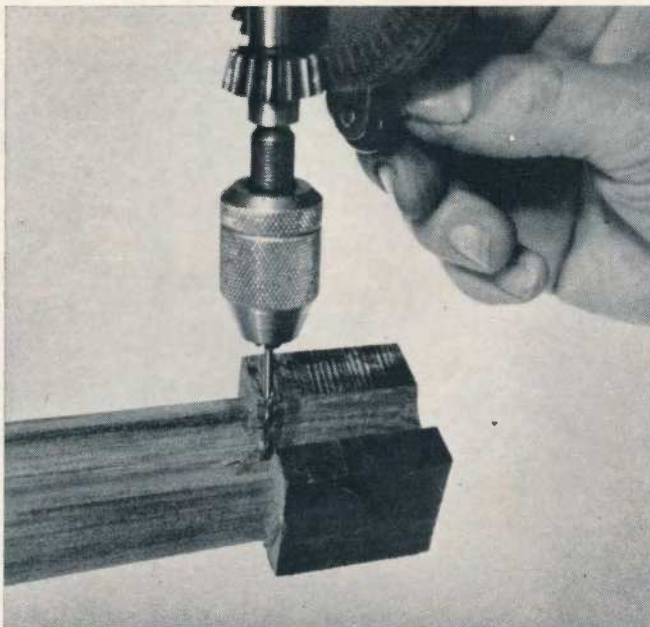


## FORE-END BOLTING

After hanger bolt has been turned into tip, hole to fit it is drilled into end of forestock, the surfaces cemented, and block turned onto fore-stock.



If you work while the fore-end top block is still over-sized, you can make use of a power tool to do some inletting on the wood.



Drill two small holes using a No. 33 drill at 4 and 8 o'clock into the barrel channel, about  $\frac{5}{16}$ " deep.

inletted stock blanks, the richly grained, exotic woods, and just plain good woods are at a premium in the gun business. They reign supreme and signify the ultimate in pistol grips, fine custom stocks, as well as fore-end tips.

Fore-end tip woods can be attached to gun stocks simply, the result being a permanent inseparable joint that will continue to appear as though it grew that way. The hanger bolt is the solution, and any hobbyist can do it in one "long evening."

With the hanger bolt and use of contrasting wood, very plain looking stocks can be given a dressed-up appearance. It isn't necessary to spend hours carving out the stock tip section to a shape conforming to the slip-on type plastic fore-end tips. Besides this form of "crowned tooth," fore-end tipping relies completely on glue plus friction.

Dry, hot weather often changes stock wood and opens a gap at the junction of fore-end tip and forestock. Sometimes this is precluded by hunting during a rainy autumn which swells the stock wood and forces the tip forward. When normal gun cabinet storage again dries out the stock, the gap shows up.

If bedding tension permits tip to rest against the barrel, firing vibration may jolt the adhesive loose and your plastic fore-end tip is on the move. Some "cap" type plastic tips are rather thin-walled, and the featherweight enthusiast buzzes through them in his zestful finish shap-ing. The solid wood fore-end tip installed with a hanger bolt ends all of these problems and also usually numerous other troubles.

Although the hanger bolt method has been used here and there for some time, it hasn't caught on as the only and best method for a truly custom stock. Wood fore-end tips have for years been installed by a more or less accepted dowel pin method of drilling two or three holes in the fore-end and the wood block to be attached. The attempt to match these holes in a strain-free manner is in itself a difficult chore. Again cements and adhesives must be relied upon and invariably, sooner or later, a percentage of failures crop up.

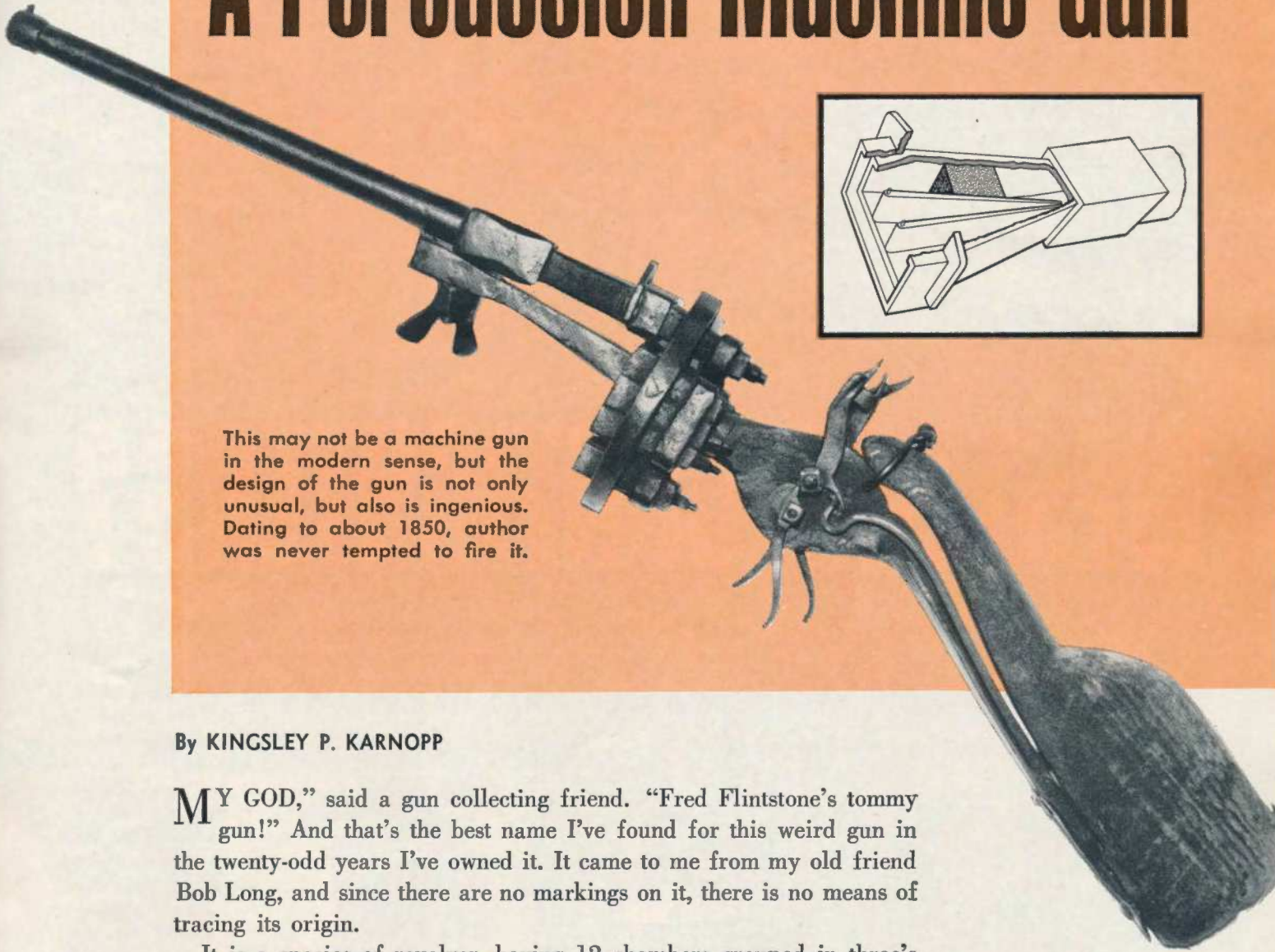
When I viewed one of the first hanger bolt fore-end tip set-ups placed on the market, the do-it-yourself system I currently use evolved. A visit to a hardware store supplied me with a few dozen lag bolts, normally used to fasten equipment bases to wooden floors.

To produce (Continued on page 49)





# A Percussion Machine Gun



This may not be a machine gun in the modern sense, but the design of the gun is not only unusual, but also is ingenious. Dating to about 1850, author was never tempted to fire it.

By KINGSLEY P. KARNOPP

**M**Y GOD," said a gun collecting friend. "Fred Flintstone's tommy gun!" And that's the best name I've found for this weird gun in the twenty-odd years I've owned it. It came to me from my old friend Bob Long, and since there are no markings on it, there is no means of tracing its origin.

It is a species of revolver, having 12 chambers grouped in three's and fired by three triggers and hammers striking standard percussion nipples. After three shots the wingnut under the barrel is loosened, the barrel slid forward a short distance, the

*(Continued on page 61)*

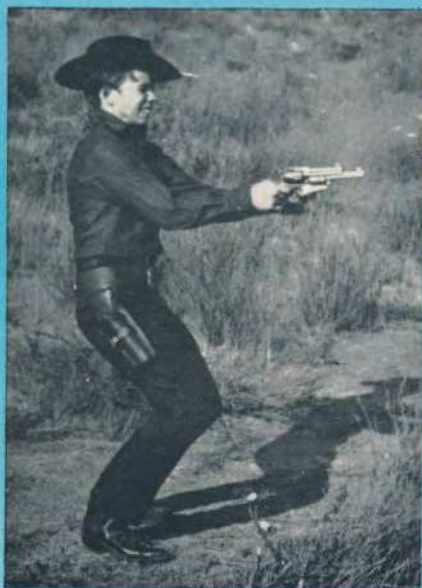


Typical picture of gun fight were hero beats guns of the bad guys. Below: Sixteen year old Thell Reed, Jr. won 28 of his first 30 fast draw meets.

**HOW  
GOOD  
WERE**



# WESTERN GUNFIGHTERS?



FAMOUS LEGENDS ABOUT FAMOUS GUNFIGHTERS,  
AND SOME FACTS THAT MAY ANSWER THIS QUESTION





**M**ORE TALL TALES have been told about gun speed and gun accuracy, particularly as practiced by the old-time western gunman, than about any other subject under the sun. Among the tallest of these, just for instance, is the one about "Wild Bill" Hickok splitting bullets on the edge of a dime at 50 paces; and the one about John Wesley Hardin "fanning" two guns simultaneously; and the one about Billy the Kid riding a horse at a dead run down a lane and knocking snowbirds off the fence-posts with first one and then the other of two unerring revolvers.

Of course, one of the tallest of all the tall tales is not old-western at all but is being foisted upon us continuously today by fiction writers and the movies: the belief that anybody, any untrained person, can pick up a trusty six-pistol and swiftly knock off one (or six) villains at whatever range is needful. Shooting "from the hip," of course; Hollywood directors must think that aiming a handgun is sissy!

The fact is that the average untrained person picking up a handgun for the first time is more likely to miss than to hit with his first bullet, shooting from the hip or otherwise, even at ranges no greater than the length of your living room. Blast and recoil will so disconcert him that he is even less likely to hit with his second or subsequent shots. However easy it may look when you see it done by an expert, accurate handgun shooting, fast handgun shooting, and most especially accurate and fast handgun shooting, require skills acquired only by practice and still more practice.

Wild Bill Hickok couldn't split bullets on the edge of a dime at 50 paces for several simple but insurmountable reasons. First, he couldn't possibly see the edge of a dime at 50 paces.

Another and more credible version of this story is that Hickok could hit a dime placed edgewise at 20 paces." Ignoring the skeptic's question, "How much is a 'pace'?", and assuming light and background conditions that would enable Hickok to see the edge of a dime at that distance, this is possible. (I have yet to find light and background conditions that enable me to see the edge of a dime at 20 of my paces, and I am not a tall man. But while we're assuming, let's assume also that Hickok had extraordinary eyesight.) Hickok was a remarkable shot with a handgun, and this is no assumption; so let's say he hit the dime.  
*(Continued on page 46)*



Ed McGivern was able to put six shots from a double-action revolver into a can while it was in the air, had time to spare for more shots.

Below: Modern fast draw man raises gun in the holster until end of barrel clears leather. As gun is drawn, hammer is cocked; finger is not on trigger. Gun is fired when barrel is level.





# THE 6.5/350-

## IS THIS NEXT YEAR'S NEW CARTRIDGE?

By R. A. STEINDLER

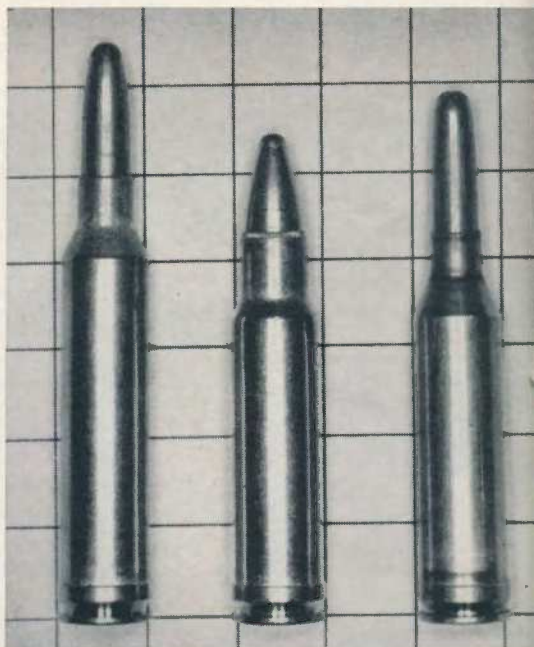
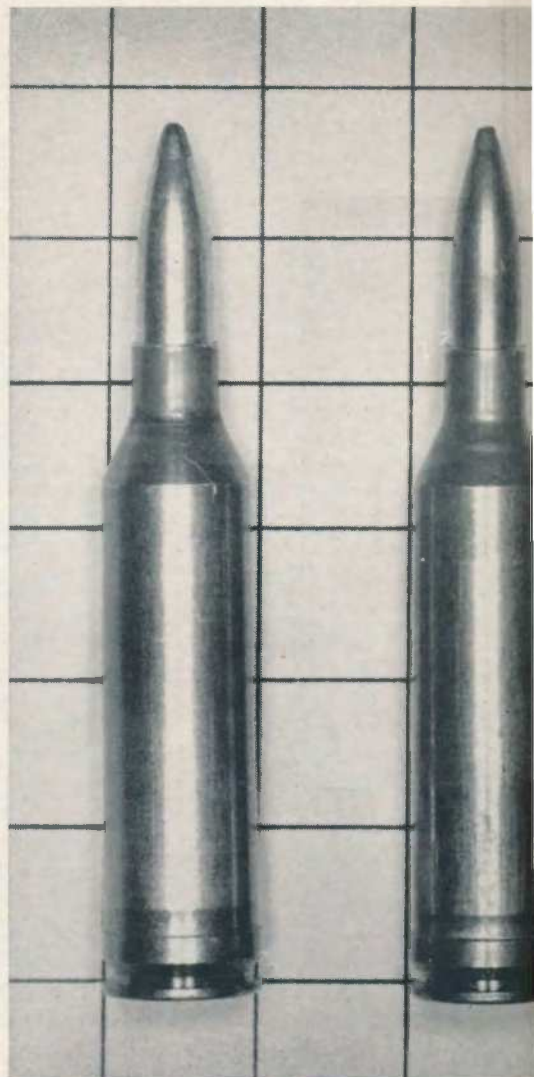
**W**ILDCATTING A relatively new factory cartridge case is a favorite pastime and there is no end to the possible and the impossible case designs that wildcatters will dream up. One such cartridge is the .350 Remington Magnum and its case is the first cousin of Remington's 7 mm Magnum hull. When developing a new cartridge, cost considerations in brass manufacture are of importance, and Winchester-Western created a whole family of cartridges based on the belted .458 case. With the current trend toward magnum cartridges, the belted case offers certain advantages, and the rapid acceptance of the 7 mm Remington Magnum and later of the .350 Remington Magnum stands witness to that.

Ever since the premature demise of the factory .25 caliber cartridges, notably the .257 Roberts, there has been a lot of clamoring for a .25 caliber factory hotshot. The .257 Weatherby Magnum, a good cartridge within its own right has, like all Weatherby cartridges with the exception of the .224, an over-bore capacity case. Hence, many shooters and gunsmiths consider these cartridges as either hard on the barrels or, if loaded within sane limits, as ballistics freaks. Moreover, Weatherby's stock design and costs are not everybody's cup of tea, and this still leaves the American shooters without that hoped-for .25 caliber rifle.

The 6.5 mm has an illustrious history in Europe, but not in the States. The first U.S. designed and produced 6.5 mm cartridge was the .256 Newton, and when this one died an untimely death, there was a long hiatus until Winchester-Western introduced the .264 Winchester Magnum in 1959 which is based on the same belted case as the .458 and the .338 Winchester Magnum. The 26 inch barrel of the .264 rifle in the standard grade produced some exceptional results, both at the bench and in the field. The 1 in 9 twist made it possible to stabilize the round nosed 160 grain bullet. Barrels shorter than 26 inches, which are handier in the field, apparently lack the inherent accuracy of the longer barrels and never made a favorable impression, neither on gun writers nor on the shooting public.

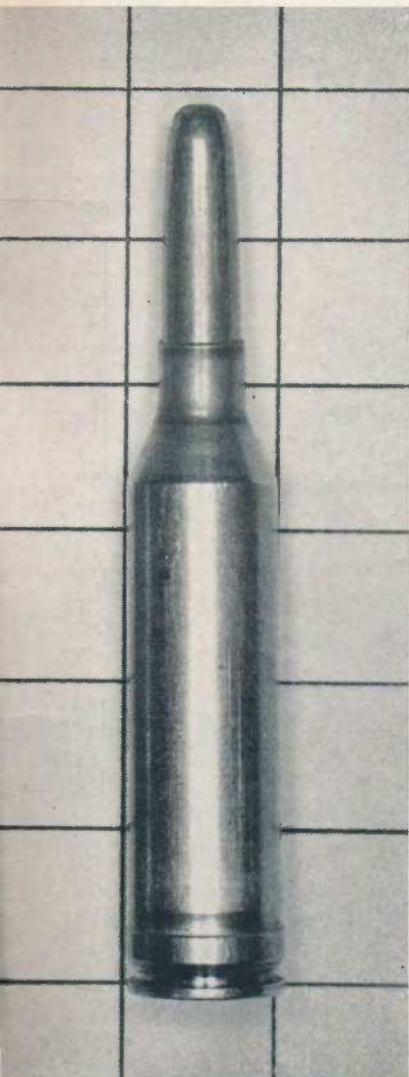
The .350 Remington case, when necked down to 6.5 mm, looked promising enough to undertake some experiments. In talking with Remington's R&D men early in 1965, it became apparent that they too had considered that possibility. I was able to discover that their interest had been more than academic—they had made up several guns and were actively working with this necked down version of the .350 case. This was stimulus enough to persuade me to go ahead and see what I could develop in the form of a medium game 6.5 cartridge based on this Remington case.

Since the gun would be used for antelope, mule deer, and perhaps goat and sheep, I ruled out the lighter bullets and decided that the 120 grain, the 140 grain, and the 160 grain bullets would be my choice. The lighter bullets, such as the 77 gr. pill from Norma and the 87 gr. Spitzer from Speer would make the proposed 6.5x350 into nothing more than another



Remington cases: 7 mm with 175 gr. bullet, the .350 with 200 gr. bullet, and the 160 gr. 6.5.





Military stock, trigger, bolt, and scope were switched back and forth between heavy barrel and light sporter barrel. HB gun weighed 15 pounds with scope, and recoil was less than that of '06, sporter recoil was equal to '06 kick.

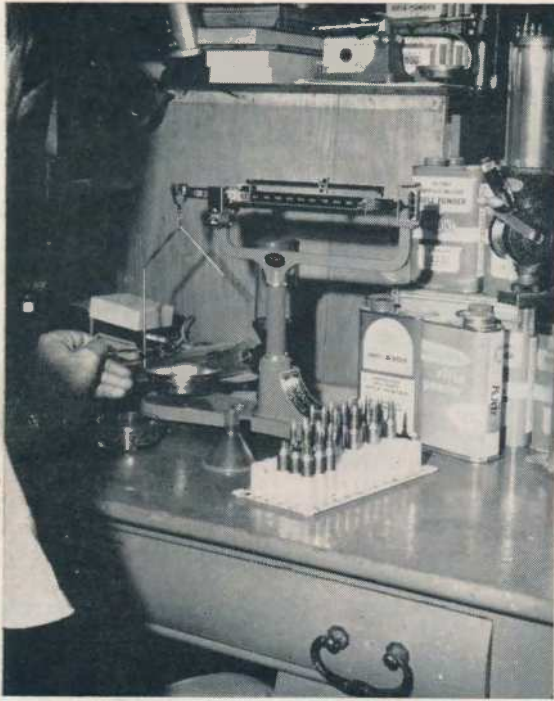


Fire formed 6.5/350 cases, from left to right: The 120 gr. Speer bullet, the 140 gr. Speer bullet, the 160 gr. Hornady RN bullet. The cartridges are shown on a one-half inch grid.



ew  
50.





## NEXT YEAR'S CARTRIDGE?



All powder charges for pressure tests, accuracy, and chronographing were weighed carefully. Sierra and Speer 120 gr. bullets grouped identically.

varmint cartridge and an over-bore capacity one at that. With this in mind, I determined that the best twist would be a 1 in 9, and accordingly Paul Haberly, staff gunsmith and owner of the Chicago Gun Center, ordered a heavy Douglas Premium barrel for me. I had decided to work with a heavy barrel gun, leaving the barrel at least 26 inches if not a bit longer. In scrounging around Paul's supply of barrels, we found another 6.5 mm Douglas Premi-

um barrel, but this one had a twist of 1 in 12. It had been turned down but not cut off. This tube was also requisitioned so that I could verify my suspicion that the 1 in 12 twist would not stabilize bullets driven at the anticipated velocities.

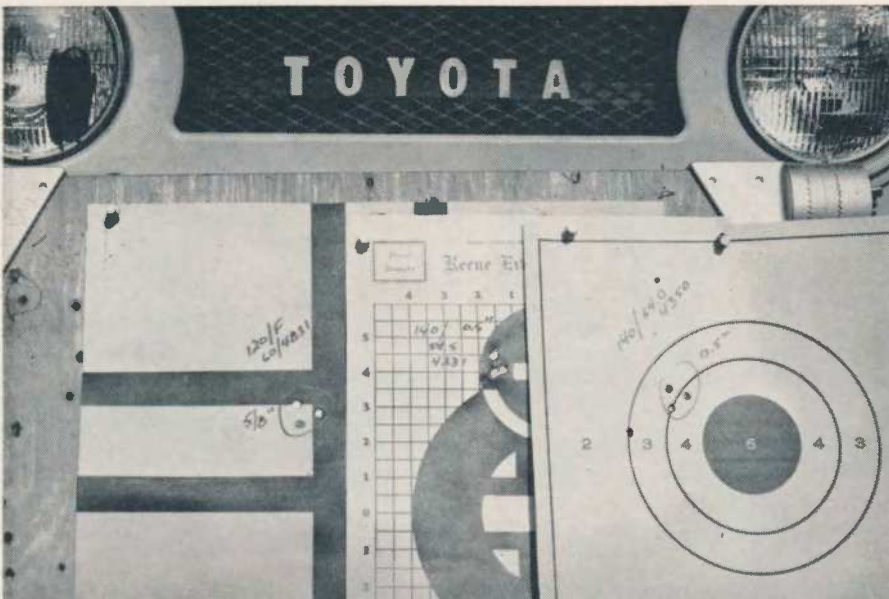
I contacted Keith Francis, the reamer maker of Talent, Oregon, and had him make up a custom reamer for the proposed cartridge. In less than four days the reamer arrived at Paul's shop

—we were on the way of building a couple of new rifles. While this work was in progress, I asked Fred Huntington of RCBS to make up suitable dies. Fred settled on two case forming dies, one to neck down from .35 to .30 caliber, the other to make the .30 caliber neck down to 6.5mm. On my request, the sizing die was made for full length sizing, and all the dies arrived in short order. On making up the first cases, I found that properly sized brass barely needed trimming, and case length of the 6.5x350 is 2.182" (if the metric system is used this cartridge could be called the belted 6.5x55).

With the help of the Powley Computer, I determined that my starting loads would be as follows: 120 gr. Speer or Sierra bullet—54 gr. of 4350; for the 140 gr. bullet I would start with 52 gr. of the same powder. The choice of 4350 was predicated on previous experiences and on some experiments Fred Huntington had conducted on a wildcat that had a similar case design, although his case was not belted and also was somewhat smaller. The Powley Computer indicated that 4831 would be a good choice and I accordingly settled on 57.0 gr. for the 120 gr. bullet and on 52.0 gr. for the 140 gr. bullet. For the 160 grain round nose Hornady bullet, I settled on three loads. Using CCI 250 primers I would start with 60.0 gr. of H5010; with standard large rifle primers, 50.0 gr. of 4831 looked like a good starting load, and 49.0 gr. of 4350 was my third choice. Incidentally, all charges were weighed in all loadings.

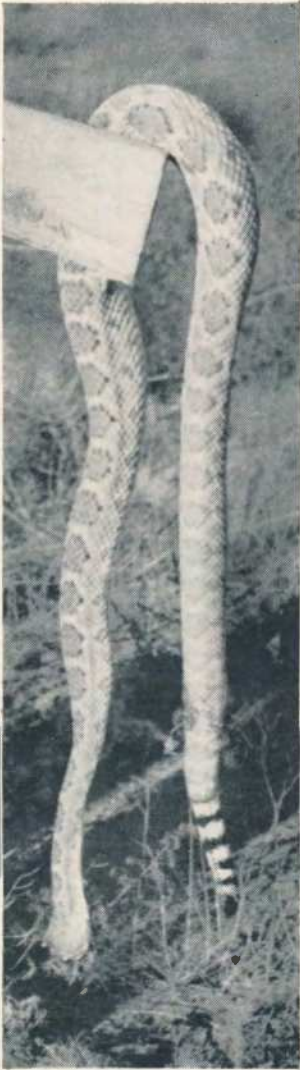
When the barrel work was finished and I had loaded my first test rounds, I had to persuade Paul not to finish the guns, but let me have them in a military stock and without altering the FN Mauser actions so that the cases would feed. I also asked him not to contour the bull barrel. I wound up with two barreled actions which shared the same trigger, bolt and stock. I did however let Paul install Weaver blocks on both actions so that scope mounting would be made easier since I intended to change from bull barrel to sporter on the range, and thus would only have to switch the trigger, the bolt, and the scope which I easily re-colimated after each switch at the shooting bench.

During most of the summer, load development work, testing for accuracy, and chronographing went on whenever the press of other business permitted. All accuracy (Continued on page 39)



Preliminary accuracy tests were made after pressure tests had been done. Groups above, measuring between 0.5 and 0.625, were typical of HB rifle.





**U**NDER FEDERAL LAW, a revolver, or any handgun, specifically designed to fire shot cartridges must be registered with the Treasury Department. However, you don't need a special revolver to handle shot. A standard rifled barrel will shoot efficient patterns, especially at the relatively short ranges that you would expect to clobber a rattler or put the quietus on a trout-thievin' water snake. A thimble full of No. 7½ shot and a few stiff cardboard wads will transform any .38 Special or .357 Magnum revolver into about as effective snake medicine as a fisherman or woods hunter could ask for.

Why shot instead of solid bullets? Well, if I'm deliberately hunting rattlers, or even expect to come across one, I have full confidence in my ability to blow his head off with a well-placed .357 slug. However, it's the rattler that I come across unexpectedly that "shakes" me. Under such conditions anyone can come slightly "unglued," which isn't conducive to steady shooting. For that reason I'd rather be able to put half a dozen No. 7½'s into a snake's noggin than try to decapitate him with a 156 grain slug at 1100 fps.

For example, my ten year-old daughter and I were trout fishing on the Jemez River below Battleship Rock in New (Continued on page 51)

## SNAKE LOADS



A thimble full of No. 7½ shot and a few stiff cardboard wads will transform any .357 Ruger into snake medicine.

**TRY SOME OF THESE EFFECTIVE  
SHORT RANGE LOADS IN YOUR REVOLVER**

Wads are cut by tapping cutter with mallet. Use enough 7½ to fill case to ¼" of top.





# Pull!

BY DICK MILLER

**H**OT SHOOTING and Hoosier hospitality highlighted the 1965 Central Zone Shoot, hosted by Edgar Kuhlenschmidt's Evansville Gun Club, Evansville, Indiana. Shooters had a foretaste of what is in store for them at the 1966 Hoosier State, to be held on the same grounds. The Evansville Gun Club is one of the most attractive and best laid-out gun clubs on the continent, with its shaded area, unobstructed view of targets, recreational and parking facilities. And, Edgar Kuhlenschmidt, besides being one of the nation's best shots must surely rank with the most hospitable hosts.

Central Zone shooters were treated this year to a party at the Sterling Rathskeller. The ladies were bussed to lunch and shopping at a near-by mall, and a good time was had by all. Edgar lived up to his reputation as both host and shooter by winning the preliminary 500 target marathon with a score of 498x500 and by winning AA class on Class Day with 200 straight. George Schnellenberger, from Angola, Indiana showed the way in handicap events, by breaking 100 straight from 27 yards, adding to a long list of believe-it-or-nots for this Hoosier hot-shot. Pull will try to pick up more scores from this and other zone shoots as they become available.

Over in the Eastern Zone Shoot, at Pine Valley Gun Club Berlin, N. J., Frank Little of Endicott, N.Y. won the handicap title by firing 99 from 27 yards, and added another trophy with his winning 394x400 in the High-All-Around event. W. D. Marvel, Lincoln Delaware, fired 200 straight to win one of the 16-yard titles. Walter Berkuta, Monmouth Junction, N. J. won the New Jersey state handicap title, fashioning a 98 from 22 yards. Mrs. Gerri Blank of Garwood, was high lady, with a fine 95. Eddie E. Bahr, Jr. took state honors in the High-All-Around with his 386x400. 317 hopefuls squared away on the final day at the New Jersey event.

Earl K. Angstadt of Darien, Conn. won both ends of the opening day of a three-day Atlantic Indians trapshooting program at Shawnee-On-Delaware, Pennsylvania. Franny Musselman, of Collegeville, Pa. won the Montgomery County singles championship, at Upper Perkiomen Sportsmen's Club, in Red Hill. His 99 shaded Chester Reifinger of East Greenville by one target. William Hunsberger, former Montgomery Countian, took visitor's honors with a perfect century. Donald Redlich, Camp Hill, was a weekly winner at West Chester Gun Club, Pa., on the same date, also with 99x100. Ed Schober

took home the 16-yard trophy from a Pine Valley Gun Club trap event, and Phil Cain topped the doubles field. C. K. Miller of Boyertown, Pa. topped 50 entries in a bi-monthly match at Roxborough Gun Club. Mrs. Mary Christopher was high lady with a 97. Ed Dunigan, Conshohocken, topped the handicap section, one bird up on Miller and John McCullough. John Rowland, Lester Peschko, and H. T. Bullock were winners at Pine Belt Gun Club, Indian Mills, N. J. Rowland took the 16-yard trophy, Peschko copped the handicap honors, and the doubles event went to Bullock.

Sam Schellenger of Fort Washington Pa. turned back some of the best 16-yard gunners on the Eastern shore with a 149x150 effort in a registered event at Atlantic City Gun Club. The field included Paul Holloway, Clementon, N.J., and Archie DiPaolo of Vincentown, N. J., at 146, and Danny Sarantino of the shooting Sarantino brothers from Cedarville, N. J., who had 145. J. H. Miller, Wilmington, Delaware, topped the 16 yard field in a WTA event at Glasgow, Delaware. Rodney Turner of Elkton took the handicap trophy. Miller broke 'em all, and Turner dropped one yardage target. Gerald R. Litteral from Penns Grove, N. J. annexed the handicap hardware in a Roxborough (Pa) Gun Club program.

Two Philadelphia country clubs returned trap champions recently. Pierre Houdry topped H. L. Boyer Jr. for the men's title at Aronimink. Mrs. C. Alio bested Ann Schibener by one target for the lady's trophy. Fifteen-year-old Robert C. Buerki Jr. was club champion for the Philadelphia Country Club, turning back a challenge from J. R. Woolford. A Bucks County 100 target handicap event went to Warren Fentzloff of Washington, N. J., for his 95x100. Pete Godshall from Doylestown, Pa. turned back all comers in a 16-yard event at Upper Perkiomen Sportsmen's Club, Red Hill, Pa. with his perfect hundred. Mahlon Schwar, Emmaus, Pa. also put the trophy out of reach with a clean hundred at Roxborough Gun Club. Jim Driscoll of Chester Springs was one target shy.

A. Suydam was a winner in handicap competition at Pine Belt Sportsmen's Club at Indian Mills, N. J. with 94 from 21 yards. Francis McCullough of Philadelphia had himself a big day at one of the Quaker City Gun Club's registered events. He fired a perfect hundred, along with W. W. Warner, in the 16-yard program, and was alone for the trophy in the handicap event. Mrs. Rhoda Wolf, one of the country's finest

feminine shooters, and wife of club president Dr. Lewis R. Wolf, topped the feminine contingent, just one target shy of the perfect hundred. Bruce Souzon topped doubles entries with 47x50, topping McCullough, Bobby Pagliughi and Ben Cassalia with 45 of the 25 pairs. A. W. Snyder of Bethlehem, Pa. was the top gun in a Quaker City Gun Club event at Holmesburg. Both Snyder and Archie DiPaolo were sharp with 99's in the 16-yard event, and his 44 won the doubles trophy. Miss Caroline A. Elliott, Drexel Hill, led the ladies in the 16 yard race, and Mrs. Rhoda Wolf was high for the distaff section in the handicap program.

Huntingdon Valley Country Club devoted an event to determining the club champion in doubles. R. E. Kuhn topped George Kolb in a shoot-off for the title. The lady's championship went to Mrs. Andrew F. Webb. Runner-up was Mrs. Bruce Ambler. Randy Hutton of Trenton had a day to remember at the Roxborough Gun Club. His 123x125 was good for the All-Around trophy. He was high in the handicap section with 49x50, and went home with Class B 16-yard trophy. Mahlon Schwar was the 16-yard winner. Mrs. Mary Christopher from Cornwell Heights was high lady in the 16-yard race. Leon Dembowski was Class A 16 yard winner. James Ward from Audubon was high overall in the weekly test at Pine Belt Gun Club, for 118x125. Eugene Solomon of Freehold shaded Ward one target in the 16 yard program, but Ward was strong in the handicap race (47x50).

N. L. Neff was a handicap winner in Wilmington Trapshooting Association weekly firing, one target shy of perfection. R. L. Pleasanton of Magnolia, Delaware, was a doubles victor, missing just one brace from twenty-five pairs. Pleasanton also went straight in the 16-yard race, along with J. O. Betts, of Bear. A. W. Snyder of Bethlehem, Pa. makes news for a second time, this time for winning Roxborough Gun Club's annual Mid-Summer trap tournament. Sam Schellenger from Port Washington was runner-up, one target off Snyder's perfect pace. There was a lot of traffic at the 98 spot, including C. K. Miller, Frank McCullough, Guy Frick, H. Rogers, H. A. Williams, and Mark Fox. Club secretary John Wilde had a 97 effort.

As the summer target pace quickened, Pine Belt Sportsmen's Association scheduled a two-day test. Cliff Leutholt from Allentown, N. J. turned back the Pine Belt club president Archie DiPaolo on the first day. Fred Lang, from Vineland (N. J.) was the opening day handicap winner, shooting from 19 yards. Howard Conover of Quakerstown, Pa. won a handicap event at Bucks County F&G Club, Doylestown, shooting 49x50 from the 20½ yard line.

The Emmaus, Pa. ace, Mahlon Schwar, had at least one big week end this summer. He broke 150 straight targets to win a 16-yard test at Quaker City Gun Club on Saturday, then the following day moved over to West Chester Gun Club and added another trophy to the week end's collection with a winning one hundred straight. The 150 target Quaker City event won by Schwar also featured a tight race in the lady's division. Mrs. Rhoda Wolf won with 146x150. Mrs. Jerrie Blank of Garwood, N. J. had 145x150, and Mrs. Otto Neiderer, Torresdale-Frankford, had just one less break, at 144x150.

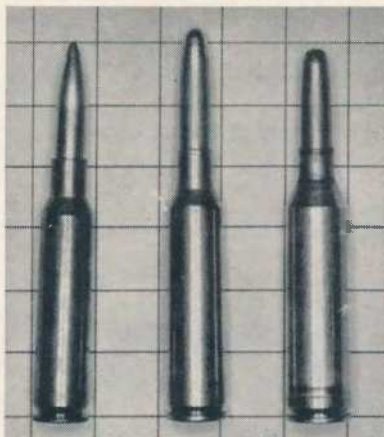




## THE 6.5/350

(Continued from page 36)

three shot groups at a measured 100 yards from a solid rest. Chronographing was done after accuracy or lack of accuracy for a given load was determined and after I had settled on a load that showed no signs of pressure. Some loads, though accurate, proved to be excessively hot and were fired from a machine rest in the basement of Paul's shop. The trigger pull of the military trigger was a gruesome 7 lbs. and it took



The 6.5x54, 6.5x55, 6.5/350.

me a few shots to get used to the two stage pull before tackling the accuracy tests.

Loads for the 120 grain bullet: Early

pressure tests and some accuracy tests were done with Sierra bullets, the rest of the shooting was done with Speer bullets. The best calculated load was 58.7 gr. of 4831. This would give me an estimated MV of 3110 fps and an ME of 2579 ft./lbs. Hutton's Powley psi Calculator predicted a pressure of 45,500 psi.

The best load by actual range tests was the one using 56.0 gr. of 4350 and the load of 59.5 gr. of 4831 which I consider as maximum load. Once pressures had been determined, five strings of three shots each were fired for accuracy, and group measurements were taken with a machinist rule graduated in 32nd of an inch. Velocity determinations were made on my Avtron T-333 with the power being taken from the 12v battery of my Toyota Land Cruiser. Screen distance was the standard 10 feet, and distance from muzzle to start screen was 5 feet. Thus, the MV data would be more accurately termed  $V_s$ . The energy data, the 100 and 300 data, as well as the MRT and the drop figures, are calculated figures and have been verified by means of Remington's ballistics tables and Winchester-Western's recently published ballistics data book.

Loads for the 140 grain bullet: The best calculated load for the 140 gr. Speer bullet was 54.0 gr. of 4831. The estimated MV for this load is 2860 fps, estimated ME is 2640 ft./lbs., and estimated chamber pressure is around 43,500 psi.

Loads for the 160 gr. Hornady bullet: The Powley Computer indicated 60.0 grains of 5010 as good starting load. Taking it from there, I calculated that 50.0 gr. of 4831 and



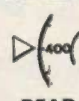
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51.0 grains of 4831 should also do the trick. For the 50.0 grain load, I estimated an MV of 2600 fps, ME of 2400 ft./lbs., and a chamber pressure of 45,000 psi. For the 51.0 grain load, anticipated MV would be around 2640 fps, ME around 2510 ft./lbs., pressure remaining approximately the same.

In looking over the performance of the 6.5x350 and comparing it with other cartridges, several similarities become apparent. Although this wildcat is somewhat similar to the .264 Winchester Magnum, the 6.5x350 is shorter, thus is not an over-bore capacity case. The short belted case of the 6.5x350 will work through a short action, whereas the .264 will not. A wildcat that appears to be very similar to the 6.5x350, but which I have never seen nor fired is the .264 Short

realize that the bull gun with the 27 inch barrel and the 1 in 9 twist is a different breed of cat than a gun that is made up with a 24 inch tapered barrel. There is bound to be some velocity loss, but the shooting conditions on my range during the tests won't vary greatly, except for the temperatures, from those the shooter-hunter will encounter on the range and in the field. Temperature variations from a low 60 to a high 97, and humidity ranging from 40 per cent to 95 per cent, plus a few days of strong winds and some shooting sessions in the rain, have raised all the cain with accuracy shooting that can conceivably be raised—short of freezing weather and a snowstorm. If Remington does crack lose with a necked down version of the belted .350 Magnum

### Loads and Ballistics for the 120 grain Bullet

LOAD	AVE. GROUP	MV	ME	V <sub>100</sub>	E <sub>100</sub>	V <sub>300</sub>	E <sub>300</sub>	300 YARD MRT	DROP
56.0/ 4350	0.71875	3311	2910	3000	2400	2575	1745	4.6	17.0
57.0/ 4350	1.8736								
57.5/ 4350	1.0000	3425	3110	3180	2700	2700	1940	4.3	16.0
59.0/ 4831	1.5000	3367	3010	3111	2580	2640	1870	4.5	16.6
59.5/ 4831	1.3750								
60.0/ 4831	EXCESSIVE PRESSURE, CASE HEAD EXPANSION OF 0.002"								

### Loads and Ballistics for the 140 grain Bullet

LOAD	AVE. GROUP	MV	ME	V <sub>100</sub>	E <sub>100</sub>	V <sub>300</sub>	E <sub>300</sub>	300 YARD MRT	DROP
54.0/ 4350	0.5000	3058	2900	2857	2510	2483	1920	5.1	19.5
54.5/ 4350	1.3120								
54.0/ 4831	1.1872	3067	2910						
54.5/ 4831	0.5000	2941*	2750	2700	2264	2400	1788	5.5	20.8

\* The lower velocity of this load is probably due to incomplete burning of the powder. This load was repeated several times, yet velocity changes were so minimal as to be statistically insignificant. At 55.5 grains of 4831, pressure indications were quite noticeable and accuracy dropped. Two of the three cases showed a case head expansion of 0.002, while the third case showed an expansion of 0.004.

### Loads and Ballistics for the 160 grain Bullet

LOAD	AVE. GROUP	MV	ME	V <sub>100</sub>	E <sub>100</sub>	V <sub>300</sub>	E <sub>300</sub>	300 YARD MRT	DROP
60.0/ 5010									
CCI 250	1.5								
49.0/ 4350	0.8736	2770	2720	2350	1960	1600	914	8.4	28.7
50.0/ 4831	1.0000								
51.0/ 4831	1.4368	2740	2660	2325	1940	1590	904	8.0	28.0
52.0/ 4831	CASE HEAD EXPANSION, EXTRACTION DIFFICULTIES								

Magnum (Connell) which is listed in P.O. Ackley's "Handbook for Shooters and Reloaders." This cartridge also has a belted case and the 120 and the 140 grain bullets appear to give velocities similar to those delivered by the 6.5x350. Incidentally, it should be noted that Ackley emphasizes that repeated tests by experimenters and gun writers have failed to produce the 3250 MV in handloads that the W-W ammo provides in the 140 gr. bullet load.

Aside from burning a lot of powder, burying several hundred bullets in the backstop of our range, and making cute little holes into a package of Avtron screens, what has been accomplished by the 6.5x350? I fully

case, it is quite conceivable that factory ballistics will be as good and perhaps even better than those I managed to get. This then would give us an inherently accurate cartridge that, with bullets from 120 to 160 grains, will shoot fairly flat and where the bullets are given quite respectable velocities. With these bullet weights, such a cartridge-gun combination would do very well as plains rifle, and with the 160 gr. bullet could do very well in the open areas on larger game such as black bear, caribou, and moose in the hands of a good shot. Remington has the basic cartridge family—let's see if the 6.5x350 is the next one. It could be a real whopper!





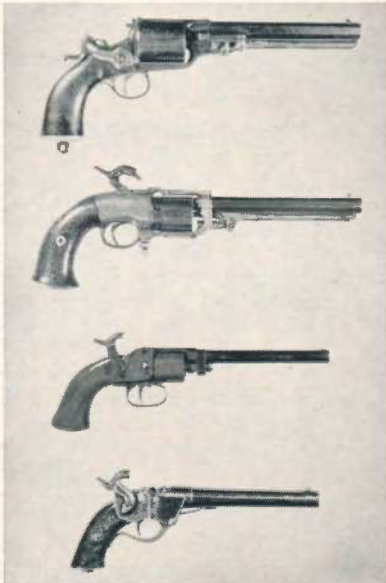
## BUTTERFIELD

(Continued from page 20)

Further refinements of Butterfield's gun lock were invented by Jesse and patented June 14, 1859. Joining with Jesse Butterfield in registering this patent (24,372) was Simeon Marshall of Philadelphia. Joseph B. Butterfield was one of the witnesses.

Butterfield's major claim rested not on a novelty of principle, but in a better protected and more positive method whereby the action of the hammer operated the carrier and deposited a wafer-like detonating disc precisely and cleanly over the nipple. His 1859 patent dealt with alternate methods of forming the disc magazine and a plan for assembling the primer discs in an adhesive column rather than loading them loosely and individually; there were also some minor improved mechanical accommodations.

Having the protection of several United States patents, Jesse Butterfield's problem was what to do with them. At least one other Philadelphian had confidence in the



Period of 1845-65 was one of vast interest in patent priming devices. From top: Rupertus, Butterfield, Maynard, Sharps.

Butterfield system, for Joseph Lemuel Chester sailed off to Europe in 1858 and secured an English patent (2050) for the Butterfield system in his own name. This system was later employed to convert the locks of a small number of British Enfield rifles by attaching an external unit.

As the differences between the states waxed hotter, the North and the South began to have deep thoughts about weapons. As early as 1858 Butterfield induced the federal government to conduct a test of muskets equipped with his priming system in competition with the Maynard system which had been adopted for the U. S. Model 1855 rifles.

Major William H. Bell was assigned to conduct the trial, which was held on March 31, 1858. A report was made to Col. Craig, Chief of Ordnance, the following day. In his report Major Bell stated that 200 rounds had been fired with "the self priming ap-

paratus of Mr. Butterfield, attached to a musket .69 in. diameter . . . in comparison with Maynard's primer on the lock plate of the new musket .58 in diameter."

Conversion of a standard flintlock .69 caliber musket to the Butterfield system was usually accomplished by fitting a new breech to the barrel with cone (nipple) bolster attached. A disc primer tube, square on the outside and containing the round brass magazine, was fitted into a slot milled in the lock plate between the hammer and the bolster. The lock plate was stripped of the excess parts as in an ordinary caplock conversion. The stock above the lock plate was recessed to accommodate the feeding arm and was covered by a metal plate.

Butterfield's wafer primers were described as tin and copper discs by Major Bell. The .69 musket charge of powder was 80 grains, the round ball weighed 412 grains. Maynard's "tape or chain" piper primers were used in the .58 caliber Model 1855 rifle, and the charge of powder was 60 grains, the elongated ball weighing 412 grains.

Misfires for the Butterfield were three percent as against six percent for the Maynard. On the basis of this performance and other tests, Major Bell concluded: "On the whole the superiority of the Butterfield apparatus over the Maynard primer, working from the lock plate of the new musket, would appear from the above experiment to be clearly established. The principal advantage being in the accuracy and uniformity in the feeding out of the primer, in which respects this application of Maynard's without cog wheel seems to be deficient."

There is little doubt that Major Bell's favorable impression of the Butterfield lock led to a contract which in their own deliberate fashion the ordnance department later awarded Butterfield on January 21, 1859. The contract granted rights to the U. S. for application of the Butterfield primer system to the locks of 5000 muskets for \$3,000. This appears to be a very small sum, but Jesse Butterfield probably figured that this would be a foot in the door for more profitable contracts.

The small survival rate of U. S. muskets converted by the Butterfield system gives rise to doubt that the full 5,000 guns of the 1859 contract were converted. A lesser known breech-loading gun with a Butterfield lock was made experimentally; it used a brass cartridge, something like the "hole in the head" Maynard.

From the standard U. S. shoulder arms, distinctive only in their Butterfield lock apparatus, we can now turn to the Butterfield "revolver-pistol," a model completely original in its design. On this repeating pistol and its baby-brother derringer, the major collector's interest is centered.

Two sizes of the Butterfield five-shot "revolver-pistols" are known. The larger size is perhaps unique, for only one specimen has ever been publicized. This arm is of heavy "dragoon" size, weighing over five pounds. In general mechanical function and design it resembles the smaller standard revolver, but it is a massive fistful of pistol.

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Extensive research into Philadelphia history by Ray Riling, made it possible to trace this big Butterfield pistol.

In August 1916 Joseph Fratanduona, an antique dealer, purchased a number of articles from Butterfield descendants, some of whom then still lived in Philadelphia. Among these things was the big Butterfield pistol. The reputed price paid was \$1. Sensing something rather unusual about the piece, Joe upped the price to \$15, promptly sold the pistol to a son-in-law of Mr. F. Ostendorf in whose famous old Philadelphia restaurant hundreds of guns decorated the walls. There the big pistol hung until prohibition put the Ostendorf establishment out of business.

Stephen van Rensselaer, a prominent arms dealer of those days, purchased the Ostendorf arms collection. Then O. J. Bierly, a Pittsburgh policeman and collector with a nose for rarities in guns and other antiques, learned of this pistol. He is said to have paid Mr. Van Rensselaer \$500 for it, plus some valuable pistols to sweeten the deal.

The Bierly collection began to run into problems of display space. The collections of guns, rare china, and other things was loaned to the Carnegie Museum of Pittsburgh. There, among rare U. S. martial pistols, Paterson Colt pistols, and many other fine arms the big Butterfield was one of the outstanding specimens exhibited at the Carnegie Museum until 1940. Mr. Bierly, then advanced in years, decided to return to his home town, and contacted me. I purchased the entire gun collection and moved it to Arizona.

Carl Metzger, a well-to-do Texan, visited my Arizona ranch, and after "some arm-twisting and financial discussion" toted the big Butterfield back to Texas. A little over 10 years ago, Mr. William Locke of Cincinnati proved to be a pretty good arm-twister himself and, in an exchange satisfactory to both, obtained the Butterfield dragon pistol from Mr. Metzger. The gun is still in his possession.

The standard model of the five-shot Butterfield repeating pistol is a rather colorful weapon with a rounded bronze frame and blued barrel and cylinder. Immediately forward of the trigger guard is the channel into which the magazine holding a column of discs is inserted and held by its threaded and knurled head.

The standard Butterfield has a 7" octagon harrel with hinged loading lever underneath and usually bears the marking BUTTERFIELD'S PATENT DEC. 11, 1855 PHILADA. A few pistols have been reported without any marking. The barrel rifling has seven lands and seven grooves of about equal width. A matter of long controversy and considerable confusion is the actual caliber of this pistol. It has been given variously as .36, .44, and other figures. Col. Arcadi Gluckman gave the most accurate appraisal in his "United States Martial Pistols and Revolvers."

The actual groove diameter at the muzzle is .410, the land measurement .412. Col. Gluckman's .41 is a correct caliber designation for this pistol. A major cause for differences of opinion as to the caliber has come from the fact that the chambers of the cylinder are reamed at a taper, measuring approximately .447 at the mouth. The breech end of the barrel has a similar tapering flare, then narrows down to its true bore size. A few of the early five-shot cylinders had a decorative milling around the outer surface at the forward end, and a difference in cylinder stops will be noted.

A further reason for the peculiar bore variations of the Butterfield comes from notations made by Mr. W. Stokes Kirk, Sr.: "Jesse Butterfield patented his revolver and it was an utter failure. He tried to sell his stock on hand at the close of the Civil War at \$1 each and had a hard time to find a customer. The frame was so close to the cylinder that after the ball was entered, it could not be brought under the rammer until it had been forced into the cylinder by hand."

The feature of which Butterfield was so proud was his automatic priming device. When the single action hammer was drawn back, a flat tongue-like carrier, with a hole near its forward end to receive the detonating disc, picked up the disc from the spring activated magazine tube and moved it forward to its correct position, over the cone. Other claims, such as protecting the cone from rain drops and keeping the nipple free of fragments, were given to add frosting to the cake.

One might ask, "If Butterfield repeating pistols enjoyed such little favor in comparison to other contemporary arms like the Colt and the Remington, why were they made in the first place?" For the answer to this we must go to the files of the U. S. ordnance department.

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men to be known as the "Ira Harris Guards" of the 5th New York Cavalry. In letters from Brig. Gen. James W. Ripley during 1861, Col. De Forest was authorized to purchase a total of 2280 "revolver pistols" and the same number of swords and horse equipments. Dr. Charles L. Rowland, assisting Col. De Forest, and apparently without the Colonel's knowledge, contracted with J. B. Butterfield & Company for the 2280 pistols, and later sent a letter in Col. De Forest's name, requesting government inspection and acceptance of the Butterfield pistols.

It is interesting to note that the contract was not made with Jesse S. Butterfield but with J. B. Butterfield & Co. Joseph B. Butterfield was a witness to Jesse's 1859 patent. He is presumed to be Jesse's son; the Philadelphia directory in 1861 listed "Butterfield & Son" gunmakers at 1528 Frankford Avenue. Apparently Joseph B. was more persevering in the gun trade, for his name remains in directories as a gunsmith and machinist after Jesse went into selling stationery. Jesse died in 1869, his widow Hannah being listed at 1524 Frankford Avenue in 1870. Joseph later became a photographer, his last listing in 1883.

The controversy for the 2280 Butterfield "revolver pistols" is designated as "Case No. 106," and may be found on pages 590-595 of Senate Executive Document 72 (37th Congress, 2nd Session) for those who wish to review it. Two communications, however, tell the story rather fully. The first was dated at Philadelphia, June 10, 1862. It was addressed by Butterfield to Brigadier General J. W. Ripley, Chief of Ordnance Bureau, Washington, D. C., and read as follows: "Under your orders to Colonel O. De Forest, Ira Harris cavalry, of the dates of September 16, October 30, and November 22, to purchase twenty-two hundred and eighty pistols, which orders were subsequently given us by him to make and deliver, and in pursuance of which we have thus far expended over ten thousand dollars for alteration of tools and new machinery and materials (some delay having necessarily been caused by the alteration of tools, having previously made a smaller arm) the entire parts being nearly all made, we are now ready to commence putting the same together in the course of the next week, when they will be ready for inspection. Will you oblige us by stating, by return mail, where we shall present them for inspection, whether at our factory or at the arsenal . . . J. B. Butterfield & Co., Box 1045 Post Office, Philadelphia, Pennsylvania."

This letter appears to dispell any doubt that the Butterfield pistols were made in any shop other than that operated personally by the Butterfields. Further, it mentions their manufacture of "a smaller arm," this being presumed to be the small derringer pistols with Butterfield locks, made to compete with the pocket pistols made famous by Henry Deringer, and it indicates manufacture of those pistols prior to 1862.

Sad news, indeed, for Butterfield & Co. was contained in a report by J. Holt, commissioner on ordnance and ordnance stores, and his assistant, Major P. V. Hagner. This following report wrote finis to any government interest in Butterfield pistols:

"Colonel De Forest now writes to the chief of ordnance, under date of June 18, 1862, referring to the orders given to him in Sep-

tember, October, and November, to purchase supplies for his command and states: 'Finding your department could furnish as good an article as I could purchase myself, and much more speedily, I purchased nothing except 605 sets of horse equipments from Messrs. Phillips & Co. of Philadelphia, but I have since learned that Dr. Charles L. Rowland, whose assistance I desired, and who cooperated with me in raising my brigade, thinking himself authorized by me, made a contract with Messrs. Butterfield & Co. for 2280 pistols, an article of superior value and which should be adopted by our government. He informs me that they have never been received by you but that they are ready for delivery. Will you do me the favor to have them inspected and paid for.'

"No copy of contract has been presented and no statement made as to the price or time agreed on. Messrs. Butterfield & Co. have also notified the chief of ordnance by letter dated June 10, 1862, that they were ready to commence putting together the work prepared by them under an order from Colonel De Forest for 2,280 pistols, and asking where they are to be inspected. Upon receipt of this letter the Messrs. Butterfield were requested by letter, from the chief of ordnance, dated June 11, 'to enclose a copy of Colonel De Forest's letter to you to make the pistols you report ready for inspection.'"

"No answer had been received to this letter up to July 15, 1862.

"In the absence of the copy of the contracts, and not informed of the price, the commission cannot decide upon the most advantageous course to be pursued in this case. No obligation rests upon the govern-



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ment, however, to carry out an agreement not made by its orders, but under an error by an unauthorized agent. The commission therefore direct that nothing be received under such contract or agreement; but that, should it be deemed advisable to purchase the pistols stated to have been made, it shall be done, after proper trial and in open market, at such price, compared with the present prices of revolvers, as may be fair and just."

The Butterfields may have been good gunsmiths, but they were apparently led down the primrose path in business matters, proceeding with tooling and other expensive work without a bona fide contract.

Despite an acute need for arms in the Civil War period, the Butterfield pistols attracted few buyers. The great expense in

manufacturing 2280 pistols, and the insignificant amount realized from their sale, put the Butterfields nearly out of the gunmaking business.

One source of reference suggests that Beauregard & Slidell of Charleston, S. C., were southern agents for Butterfield arms. If this is true, it is quite certain that they received no arms during the war and were apparently not very successful in selling them during reconstruction days.

It is ironic that over a hundred years after their manufacture Butterfield "revolver pistols" that once would bring only a dollar or two now sell as high as \$500. The last price noted on a U. S. musket with a Butterfield conversion lock was \$325. The Butterfield derringers are especially rare and bring high prices.

## SHOTGUN FIT

(Continued from page 27)

rasping and sanding to the proper height, and refinishing. Both of these alterations should be done by a competent stockmaker, especially on a higher quality shotgun. The cheapest and easiest way to raise the comb is to lace on a sleeve with a built-in comb. But, in my opinion, this spoils the looks and lines of the gun.

Drop at the heel is the distance, measured from the same imaginary line from which drop at the comb is measured, to the heel (the top of the stock, at the butt end). A man with a rather short "bull" neck will want more drop at the heel than will a man with a long, flexible neck.

It is the difference in the drop at the comb and at the heel that determines whether the stock is "straight" or "crooked." The straight stock is one in which there is but a little difference in a drop at the comb and at the heel. The more experienced shotguns prefer straighter stocks because it makes gun mounting faster and easier. It also brings the recoil straight back and thus the "kick" is channelled into a push and lessened. Modern shotguns have much straighter stocks than guns of yesteryear.

Drop can be altered by bending the stock. In case of a double barreled shotgun, or shotguns where the stock is held to the receiver by tang screws, the stock must be held under pressure and hot oil or water poured over it until the wood fibers take the new set. This is a fairly expensive operation which only few top craftsmen can perform. However, in the case of a gun that holds the stock to the receiver by a stock bolt, it is a somewhat easier job.

The average American repeating shotgun has the following stock dimensions: drop at the comb 1½", drop at the heel 2½", and length of pull 14". These dimensions are a compromise at best. However, they work reasonably well for anyone 5' 8" to 5' 11" tall. For a tall "rangy" man, such dimensions won't do. The stock has too much drop and is far too short; he needs a longer stock with less drop. My bird shooting partner is 6' 3" tall, has square shoulders, a long neck, and wears a 35" sleeve. His field gun dimensions

are 1¾ x 2¼ x 14½. A woman I know stands 5' 5", has sloping shoulders and a broad face with very wide cheek bones. The dimensions of her field gun are 1¾ x 2¾ x 13½. She finds standard stocks too long, and because of her wide cheek bones she needs less drop at the comb.

The pitch of the stock is, actually, the angle of the butt, and is measured from the top of the muzzle to a perpendicular which is placed on the receiver and is at a right angle to the butt. Too much pitch makes the gun shoot high; not enough pitch has the opposite effect. Pitch is easily altered by placing paper shims under the butt plate. When the desired pitch is obtained by using paper shims, the butt end of the stock is then cut at that angle and the butt plate is reinstalled. A shim at the heel (top) will increase the pitch; a shim at the toe (bottom) has the opposite effect. The pitch, of course, is relative to the length of the receiver and barrel.

A shotgun stock is said to have "cast," when the sighting plane is either to the left or right of the heel of the butt stock. This simply means that the butt stock, from the comb to the center of the butt, is bent to the right or left rather than being parallel to the line of sight. When the butt-stock is to the right of the sighting plane, it is known as "cast-off"; when to the left, it is "cast-on."

According to the British, cast is a must in a shotgun stock. The man who shoots from the right shoulder, they say, must have cast-off; the man shooting from the left shoulder must have cast-on. The cast supposedly makes the gun easier to mount. It also, it is said, makes gun pointing easier—if the shooter shoots with both eyes open. In my opinion, the cast, off or on, is more useful in theory than in practice.

A properly fitting shotgun stock is an invaluable help to good shotgunning—but it has no magic power. It will not transform a poor shot into a good one overnight. But it will help you to shoot better and that is all one can expect. If your shooting is not what it should be, take a good close look at your stock and ask yourself if it could fit you better.



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## WESTERN GUNFIGHTERS

(Continued from page 33)



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"I'll still lay you ten to one he didn't "split the bullet."

Try hitting the edge of a dime (at any distance) with a bullet. What you get is a crumpled and highly un-spendable dime, not a split bullet.

Hickok was a show-off; he loved to stage exhibitions of his shooting skill. One of the oldest stunts in the category of exhibition shooting is "splitting a bullet on the edge of knife." Hickok may have shot at knives as well as at dimes; in fact, he is said to have done so. Well, hitting the edge of a knife blade at reasonable range is possible; even I have done it. But—split the bullet?

I have seen the knife blade trick performed many times, but I have yet to see anyone split a bullet by firing it out of a gun at a knife blade. Maybe you think you've seen it, but—show me the split bullet; and make very sure the shooter doesn't use any sleight-of-hand in producing it! . . . Yes, I've seen split bullets shown; but I happen to know that they were carefully split before the shooting, and not by shooting them out of a gun!

You see, a bullet fired out of any rifled barrel is spinning very rapidly when it leaves that barrel—and when it hits the target. And a rapidly spinning bullet just doesn't "split" when it strikes an edged target; it mangles! (But you've seen shooters do this and break two separate targets, one on either side of the knife blade? Yep; I've even done it myself. But I didn't split any bul-

let; and if anyone else does, I'm open to proof.)

What has happened to this story, and to many of the other tall tales of handgun shooting, is that, while they may be based on something that actually happened, they have been too often repeated and enlarged by people who didn't know enough about guns and shooting to know where "improbable" ended and "impossible" began. Hickok could and did do things with handguns that would be regarded by many as highly improbable; he did the impossible practically never.

Or take the one about John Wesley Hardin "fanning two guns simultaneously." Not many years ago, a lot of people would have told you that it was impossible to "fan" a sixgun, even one sixgun, and hit anything less than a large barn at six paces. Ed McGivern proved, even while scores of experts were still sneering, that he could do it; and now at least a few thousand of today's Fast Draw shooters can do it, making the draw and hitting the target in a slim fraction of a second.

But "fanning" a gun requires two hands. If we give the original teller of the John Wesley Hardin story the benefit of the doubt by assuming that he knew that Hardin had only two hands, we must suppose that he just didn't know how a handgun is "fanned." John Wesley was a fast and deadly gunman, and he was ambidextrous; but quadridextrous he was not. If he had been, he might have wiped out the entire population of Texas!

Billy the Kid was another passable exponent of speed and accuracy with a sixgun, but the tale about his knocking snowbirds off fence posts with bullets while riding a running horse past them is—let's call it "strictly fictional." Did you ever try hitting something with a pistol bullet fired from the back of a running horse? I have. It can be done with practice, and you can even nick a few man-size targets.

On the other hand, "experts" laughed at Wyatt Earp's (alleged) statement that he could make his Colt Single Action "effective" on man-targets at a hundred yards or further. People devoted to the business of debunking all of the stories of old-western gunmanship said he couldn't do it. Ed McGivern did it. McGivern records (not for anyone's amazement but merely as a fairly average result of extensive shooting experiments with handguns out to 700-yard ranges) a three-quarter man-size silhouette target showing 16 hits out of 25 shots from a Smith & Wesson .38-44 Outdoorsman revolver, 6<sup>1</sup>/<sub>2</sub>" barrel, at 300 yards, firing from sitting position with back support. He records also four out of five hits on a man-size target (four in the chest, the fifth an inch off the left arm), with a .357 Magnum revolver, 8<sup>3</sup>/<sub>4</sub>" barrel, at 600 yards. In neither case was the shooting done by the incomparable McGivern; the two scores mentioned here were made by men McGivern describes as "not supergunstick heroes, but just fairly proficient performers."

Writers of western stories have been laughed at down through the decades for describing draw speed so fast that the man's hand "blurred with the speed of his move-

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ment." Today, the Fast Draw competitor who can't draw, fire, and hit his target in less than a half a second is wasting his entry fee. Does his hand "blur with the speed of his movement?" Watch him, and see.

Writers were laughed at, too, for such exaggerations as "firing five shots so fast the reports blended into one long stuttering explosion." Ed McGivern repeatedly proved that he could fire five shots from a double-action revolver, all five hits in playing-card size groups at 18 feet, in three-fifths of a second. That is "one stuttering explosion"—and not a very long one, either!

"But," you say, "the old western gunmen didn't have double-action revolvers!" Okay; so McGivern repeatedly "fanned" five shots out of a Colt Single Action, all shots hitting in groups that could be covered by a man's hand, in times slightly above or below one and one-half seconds. Can you count one-two-three-four-five in one and one-half seconds? A lot of McGivern's spectators couldn't; many would insist that he fired two, three, four—but surely less than five—shots.

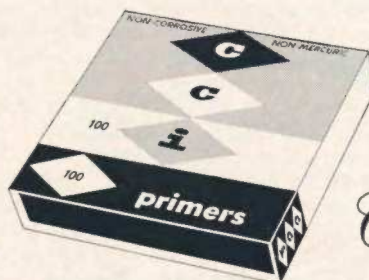
Now don't go away saying that I said western gunfighters "fanned" their guns in combat. I've been reading wild-west lore for 50 years, and I don't know of any gunman who "fanned" in combat; if any did, they must have been bowled over before their names got into the records. McGivern says (and nobody knows more about it) that "fanning" is the fastest way to get a series of shots out of a single action revolver. He suggested that it might be practical as a desperate expedient by one man against several, in close quarters. Modern Fast Draw performers "fan" for fastest times in competition, and hit their targets. But "fanning" is a complicated sequence of two-handed movements. Miss one movement by a fraction of an inch, and the whole performance is ruined. There are simpler, easier ways, almost as fast and a lot surer. With his life in the balance, only a reckless gambler would "fan" at a shooting-back target. The old westerners were gamblers, but in kill-or-be-killed shooting they liked to keep the odds even—or better!

The de-bunkers laughed, too, at the "two-gun man" concept. Nobody, they said, could draw and fire two guns simultaneously, much less fire them accurately. The fact that numerous Hickok contemporaries said they saw him do it, at least in exhibition shooting, didn't convince these wise ones; this was just another tall tale, pure fiction, strictly impossible. McGivern could do it. So can any number of today's Fast Draw experts, including George Virgines, who writes for this magazine. Thell Reed, Jr., can toss up a couple of bottles and bust them both, one with each of two very fast guns, before they hit the ground. Thell was doing this little stunt, incidentally, before he reached his mid-teens.

No, the two-gun man is not "just fiction." Several of the old-west gunmen wore two of the big "hawlaigs." They may or may not have fired them simultaneously (or in right-left rotation) in combat, but you can bet they didn't pack that extra weight just for glamour. Wyatt Earp said some carried the extra gun for use if or when the first was shot empty, or if a man happened to get his right arm shot out of action. Makes sense?



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To me, it does. Those old boys were practical men; they didn't want to be caught unarmen in the presence of their enemies—and they had plenty of enemies!

So how good were the old-timers? How fast were they? How accurate?

You can (and will) get a thousand answers to that question—from "stumble-bums" to "wizards." You will never get an accurate, provable answer—for the simple reason that nobody ever timed an actual shooting involving any one of the big-name gunmen; and no one ever accurately timed any one of them even in practice, because timing devices of the necessary types simply weren't in existence then.

Re-phrase the question to read, "Which was the fastest?"—and you won't get any provable answer, either; only opinion. As above, there were no timing devices; and (did this ever occur to you?) no two of the big-name gunmen ever met in a shoot-out.

The fact is that there are many questions about the old western gunmen to which you will never get accurate, provable answers. Documentary evidence (even who killed whom, where, when, how) is more often than not non-existent. Eye-witnesses are notoriously incapable of seeing any such action as a shooting with accuracy; and eye-witness testimony changes with every repetition. Newspaper reports, where they exist at all, and the written narratives of the old timers themselves or their friends (or enemies) are as contradictory as black and white. The fight at the OK Corral in Tombstone was covered by two local papers—perhaps the best newspaper coverage ever given any single western shooting. Read The Nugget, and you have one set of answers; read The Epitaph, and you have—confusion. One paper was on the side of the Earps; the other was on the side of "the cowboys." Which will you believe?

I can show you evidence from highly reputable sources to prove that Billy the Kid was a pint-size angel, "A nice boy, driven astray by his environment." (And how familiar that sounds, to modern newspaper readers!) And I can show you evidence from equally credible sources to prove that Billy was a juvenile psychopath, a murderous monster.

The best anyone can do (and it can be very good) is to read all the evidence and draw his own conclusions. How valuable these conclusions are will depend on many things: the open-mindedness of the reader, his knowledge of the times, the people, and the places involved (after all, you can't judge a man or an event of one era and one environment in terms of moral codes evolved decades later and in other places)—and, on questions of guns and shooting, his knowledge of guns and shooting.

Finally, the drawer of conclusions must not fall in love with his character! One able researcher in Hickok-iana is said to have written, in a letter, "The evidence you offer seems authentic; I cannot disprove it; but I cannot accept it—because Hickok just was not that sort of man!" . . . Neither must he permit himself to hate the character. One truly fine writer (on other subjects) managed to paint Wyatt Earp a worse scoundrel because he taught a Sunday School class! No man is all good, or all bad. The truth lies somewhere between.



## FORE-END BOLTING

(Continued from page 30)

a hanger bolt, the heads of two lag bolts are sawed off with a hacksaw, the head ends vee-ed and placed in a clamp type set of V-blocks for proper alignment and welding together. Surplus weld at the junction is filed off, and the threads deepened a little and sharpened.

Lag screws of at least  $\frac{3}{8}$ " diameter should be used. I ran into several hanger bolt breakages when tightening up the tips on fore-stocks. Broken bolts are difficult to remove and the tip is all but ruined. So start with adequate strength bolts. The thread sharpening and deepening is important. A deep, sharp thread grips best in wood, and also the screws turn into place with least resistance and less chance of breakage.

Fore-end tip wood for stocks is available from most of the producers of semi-inletted blanks. Popularity of exotic woods has brought many imports with puzzling names into use. The best, of course, are those having expansion and shrinkage characteristics most similar to the stocks on which they are to be used.

Choice of tip wood is an individual matter, but the color mating has become such a complicated mess that at least one wood supplier, Roberts of Portland, Oregon, publishes a chart indicating types of tip wood giving acceptable style and contrast to the various stocks.

faces must be level, and if it is to be attached at right angles it should also be square. This can be done on a table saw. A hand saw can be used if you can "saw straight." Then place the cut face onto a sheet of sandpaper laid onto a level surface, such as the table of a drill press. Smooth block face by working it back and forth while maintaining an even pressure against the sandpaper with your hand (photo 4). A level surface to join the stock is important.

The other end of the tip wood need not necessarily be level, but it helps in getting the hole drilled into the block straight, in order to achieve a straight hanger bolt installation. By using a level on the block face (photo 5), the opposite end on the drill press table may be shimmed until the face is level when locked up for drilling.

Tip wood should be cut to permit the longitudinal grain to run in line with the fore-stock. The hole to be drilled in the fore-end tip block must always be of smaller diameter than the hanger bolt outside diameter. Only trial and error will provide you with information on what size drills to use with different woods. Extremely hard woods will require a slightly larger drill than softer woods. Even walnut of different density will require different drills.

To turn your completed hanger bolt into

Specie Tip Wood	COLOR (when finished)	Stock Recommended For
Holly	White—no grain	Walnut
Burl Maple	Honey—burl figure	Walnut
Burl Myrtle	Silver grey—burl figure	Walnut
Redwood Burl	Dark red—burl figure	Maple and Myrtle
Tiger Myrtle	Light with black lines	Walnut
Purpleheart	Purple—Mahogany grain	All
Walnut,	Walnut, fancy figure	Maple and Myrtle
Zebra	Light yellow, black lines	Walnut
Vermillion	Wine red, mahogany grain	Maple and Myrtle
Cocobolo	Orange red, dark, wavy	Maple and Myrtle
Rosewood	Near black	All
Milo	Reddish walnut, fine pores	Maple and Myrtle
Golden Padouk	Rusty gold	Walnut
Lacewood	Light yellow, lacy figure	Walnut

In relation to amount of fore-end tip wood your \$2 or \$3 will buy, this business might seem quite lucrative. However, I've seen a number of woods disappear from the market because importers found lots of wastage due to checking, knots and other defects. Others had undesirable characteristics such as virtual impossibility of complete drying, rupture and tool abrasion. Tulip, Ebony, and Kingwood are examples of the foregoing.

When you receive your tip wood, usually about  $2\frac{1}{4} \times 2\frac{1}{4} \times 3\frac{1}{2}$ " in block size, it is a good idea to treat it with a good stock finish. Even at the end of the day, if work on a tip is not completed, re-treat it and keep a coat of finish on tip wood at all stages of waiting for the final and overall finishing of the stock.

To ready your fore-end tip block for installation on the fore-stock, the mating sur-

the hole you have drilled into fore-end tip block, lock the bolt between bench visejaws which are lined with soft copper to protect bolt threads. Grip the fore-end tip block and turn it onto the hanger bolt. The hole drilled into the tip block must not exceed a depth of about  $\frac{3}{8}$ " and never over  $\frac{3}{4}$ " the span of your anticipated finished tip length.

The hole drilled in the fore-end tip block should be matched size-wise with the hanger bolt to assure a firm turning resistance. Too much tension may result in breaking the bolt, or later stripping the wood in the corresponding hole you must drill in the fore-stock. Stock wood is often softer than tip woods. Therefore the drill used to bore the hole in the fore-stock end can usually be a little smaller than the one you used on the tip wood. The surface of the fore-stock end to which the block is to be attached, must

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also be level and, unless you are striving for the angled tip joint, square (at right angles) with fore-stock center.

When drilling the hole in fore-stock, be certain it is approximately centered between bottom of finish inletted barrel channel and outside of fore-stock. With hanger bolt screwed tightly into the fore-end tip block, about half of it should still protrude from block. Treat tip block and fore-stock surfaces with waterproof cement. Start end of hanger bolt into the hole in the fore-stock as shown in the photo, turning the tip block clockwise. Watch turning tension carefully. If the hanger bolt screws in too easily, the wood in the fore-stock hole may be irreparably stripped when you cinch up the two surfaces. Too much turning tension,

caused by the hole in the fore-stock being too small, can split the fore-stock or actually break the bolt.

A firm "cinch-up" provides a lasting tension which thwarts separation. To prevent its possible turning back slightly, and to permit immediate shaping of the tip block, two small holes, (using a drill of about No. 33), should be drilled approximately two thirds of the way through the fore-stock from the inside of the barrel channel at 8 and 4 o'clock at the tip and stock junction. Drill must cut about 50 per cent in parent stock wood and 50 per cent in the fore-end tip wood you have just attached.

Now whittle two small pegs from scrap walnut, sand round and fit them to these holes with slight friction. Apply cement and

drive gently into holes. Use a sharp stocking chisel to cut pegs off flush with inside of barrel channel.

Next shape outside of the fore-end tip block with rasps to approximate stock dimensions. Leave the top (barrel channel side) of fore-end tip slightly higher than that of the stock. This will prevent excessive cutting or jump-out damage from the power tool used to semi-inlet the barrel channel of the tip. When within reasonable distance of your barrel channel dimensions, use hand inletting rasps or cutters to finish.

While shaping out fore-end tips, bear in mind that tips under 1 1/2" in length usually will give a very "stubby" appearance and throw the stock out of proportion, unless the fore-stock is of very small dimensions, such as used on some of the European styles. As most American made custom and factory stocks go size-wise, a fore-end tip about 1 3/4 inches long is maximum. To eyes trained in appraising stock beauty, 1/4" or even 1/8" difference in fore-end tip length in relation to diameter can make or break its symmetrical beauty.

Protrusion of hanger bolt from the fore-end tip block should be measured after it is installed, and marked on the tag accompanying the gun job. If a fore-stock sling swivel is fitted, it must be located a little behind (toward the action) from the furthestmost extension of hanger bolt into fore-stock. You just can't drill sling swivel holes through hanger bolts!

Solid wood fore-end tips can be installed with hanger bolts before or after the rest of the stock is inletted. The best procedure is to lay out the proper length of the rifle fore-stock and fit the tip prior to other inletting, and do the barrel channel work as a unit.

On factory or other stocks already completed, there is of course no choice. A little more care must be taken when the tip is inletted to fit the barrel. Any "slip" of inletting tool may gouge or remove wood from the original stock.

Still another virtue of the rugged hanger bolt fore-end tip installation is that you no longer need to relieve bedding tension on weak fore-end tips as has been the established custom when other methods are used. If you so desire, you can bed your barrel directly onto a properly installed hanger bolt fore-end tip. However, it won't hurt to extend some of the bedding tension back onto the barrel channel wood just behind the tip.

New fore-end tip installations should always be finished with a good waterproof stock finish such as Mayers, or the new plastic and resin types. If the tip is part of a new stock, then of course the entire finishing is accomplished at the same time. On an already completed stock, a total refinishing is in order when a fore-end tip is installed. This gets away from the patch-work appearance, and does justice to your almost indestructible hanger bolt solid wood fore-end tip installation.

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## SNAKE LOADS

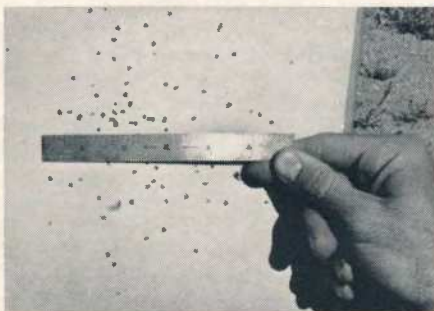
(Continued from page 37)

Mexico. Bobbie was about ten feet behind me on the trail when she suddenly squalled: "Snake!"

Now, when a ten year-old screams, especially one who's scared and has healthy lungs, it's rather unnerving. I went straight up in the air, clawed the .357 Ruger out of its holster, and had it cocked and ready before I hit the ground.

The rattler was coiled on the stump end of a fallen tree, at a range of only a scant five feet, but it took me three shots to hit that ugly, arrow-shaped head. The first two slugs passed within an inch or two of my target. Then I settled down and squeezed off a good shot. Had I been using shot loads the first would have done the job.

Loading this type of shot cartridge is easy, and no special tools are required. Full length size, prime, and expand each case,



then bell the mouth slightly to help lead the over-powder and shot wads into the case.

Use stiff cardboard for wads; the back of an ordinary pencil tablet works fine. If you prefer felt wads, cut them from an old hat. A wad-cutter is easily made by sharpening the mouth of a .38 Special, .357, or .35 Remington case, punching out the old primer, and running an 1/8" drill through the flash hole. Lay the cardboard or felt on a board, set the wad-cutter on it, and tap the head of the case with a mallet. Then punch the wads out of the case by running a wire through the primer pocket hole.

Charge each case with 3.0 grains of Bullseye, and push two of the wads down on top of the powder with a dowel, cut-off pencil, or a rod. Seat the wads firmly, one at a time. Pour enough No. 7 1/2 shot to fill the case to within about 1/16" of the top. Seat another wad firmly on top of the shot. Crimp the mouth of the case slightly to help retain the over-shot wad, then place a small piece of beeswax or paraffin on the wad and melt it with the heated head of a nail. This will seal off the case and help hold the shot wad in place.

Patterns with this shot load will be surprising, even from 2" barrel "belly" guns. My Ruger Blackhawk with a 4 5/8" barrel will put the entire charge in a six-inch circle at five feet. I've killed sparrows and starlings at 15 feet, and one rattler, shot at about 4 feet, was practically decapitated.

Remember, this load was developed as a close range snake load for the pistol totin' fisherman or hiker, and any snake that must be clobbered will be well within its lethal range.



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## GYROJET GUNS

(Continued from page 25)

in front of the fixed firing pin, thus preventing any contact between rocket and firing pin. The hammer is then pulled forward and down into cocked position, and the loaded clip of gyro rockets inserted in the grip.

"Remember," Mainhardt said, "when the trigger is pulled, it drives the rocket back against the firing pin, but if the hammer should slip now before I release the safety, nothing would happen." He demonstrated, and nothing did happen.

"This system," he continued, "has many advantages. With the rocket pistol, the recoil is only about 1/10 that of a .45 auto, and it's even less with the carbine. Second, in a conventional arm, the bullet has had its maximum push by the time it leaves the barrel. With the standard loading, this rocket engine does not achieve maximum velocity—in this case 1250 fps—until burnout, which occurs about 45 feet from the muzzle. MBA tests indicate an effective range of about 300 yards. They can be loaded to achieve higher velocity and later burnout." At the 45 yard range, three reports can be heard—the first, MBA says, occurs when the rocket goes through Mach I, the second at burnout, and the third on impact.

Ready to fire, Mainhardt steadied the carbine on a bench to offset a stiff wind from 3 o'clock and let fly at the phone book 45 yards away. Al Magazu and I heard the triple report (the sound of the rocket hitting Mach I is about as sharp as that of a .38 Special) and simultaneously saw shredded yellow paper fly out from the phone book.

The rocket had penetrated near the upper left corner, an inch or so in from the book's spine. At the front was a clean half-inch hole. At the back—2,164 pages later—the pages were shredded above, below, and to the right of the point of exit; the spine side had resisted more successfully. The rocket had continued through the plywood and slammed into the hill. We dug in after it, but gave up after boring six or seven inches.

For comparison, a follow-up shot from the .45 was fired at the book. It also penetrated, but on the open side and had keyholed upward as it came out.

The test on the plastic jug full of water

was not impressive. The plastic split for a good four inches above the point of rocket entry, relieving the pressure. The exit hole was only a little larger than the entry.

Thinking about the hunting use of this rocket, I asked: "On the deer you shot, how much meat was spoiled by the rocket?"

Mainhardt shrugged. "Not much as I recall. It wasn't too good a shot; I hit him low in the belly."

"Would residue from the rocket make the meat around the area of the hit dangerous to eat?"

MBA's president didn't think so. "Might even be helpful," he suggested, "if the guy had a heart condition."

"You use a nitro base propellant?"

"Yes, somewhat similar to Bullseye chemically except that it looks like this." He pulled a blackish, inch-long cylinder from his pocket. After some difficulty igniting it with a match in the strong wind, it took fire and burned inside out, for a few seconds. The concrete was only slightly darkened and there was virtually no residue.

To illustrate the difference in recoil, Mainhardt had us fire the .45 auto first and then the rocket pistol—an effective way to show lack of recoil. While MBA claimed the rocket generates only about 1/10 the recoil of the .45, I'd say they were overstating it. With either the rocket pistol or carbine, the recoil is so close to nil that you might well be firing a BB gun. It is true that there is a blast of air—MBA calls it "turbulence"—when the rocket cracks through Mach 1, but it is warm air, and that might be quite welcome on a chilly November day. With the pistol, recoil is barely noticeable. With the deflector off the carbine, you can feel it, but it is in no way painful or even distracting. By about the fourth shot, you forget about it completely.

In this area in late August, there's a lot of dry grass around, and I wondered if a rocket fired into dry grass or brush at short range constituted a fire hazard—Mainhardt conceded that there might be some danger, if the weapon were carelessly handled.

Both the carbine and pistol functioned perfectly, firing in bursts of as many as three shots. We succeeded in digging out several of the spent rockets, and although perhaps as much as three to five minutes had elapsed after firing, they were still too hot to hold in your hand without bouncing them around. Temperature of the gas at burnout is far above 5,000 degrees F.

MBA claims that the rockets, as far as stability of the fuel and its resistance to both high and low temperature is concerned, are as safe as conventional ammunition. I accidentally dropped one from more than four feet onto concrete, and nothing happened, but I don't recommend that you try it. Like any ammunition, the rockets should not be stored for long periods at high temperatures, but no problems are indicated in their use in either warm or cold weather.

One magazine article on the 13 mm pistol mentioned that it would penetrate an inch of steel, and I asked Mainhardt about this. "That fella got a little confused," he ex-

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plained. "I was talking then about our 20 mm rocket." Nevertheless, a high velocity 13 mm rocket has bored through three sheets of aluminum, spaced a half-inch apart and totaling 7/16"; a feat by no means in the slouch class. But what other advantages does this system have?

There is almost total absence of muzzle blast. Should you be standing to one side of the muzzle when a rocket is fired, you're not likely to lose an eardrum as could happen with a heavy caliber conventional arm.

There is little need to clean the rocket gun. Since the propellant is inside the rocket, there is little fouling. We saw one pistol which had had a reported 700 rockets fired from it. It was soiled, but its operating condition was unimpaired.

Because of the low friction factor, there is almost no wear, and parts are relatively few and simple. Outside of the steel tube and a few springs and screws, the remainder of the parts are high-grade castings. We watched Bob Mainhardt slap a pistol together from scratch in about two minutes.

The system is virtually moisture and dirt resistant. The rocket itself is sealed at the base with an aluminum membrane, which keeps moisture away from the charge. Because of the way the projectile is delivered, loose sand, dirt, or even snow in the tube are not a problem in the sense they are with ordinary guns.

Obviously, we were quite impressed with the gyro rocket weapons, but was there anything we didn't like about them? Yes. The price, the sights, and the trigger pulls.

"Writers," said Mainhardt somewhat gloomily, "always have to find something wrong. It's part of the business."

Nonetheless, prices are high, the sights are crude, and the triggers heavy and creepy. Price for a walnut-gripped specimen of the first thousand pistols—numbered from 1 through 1000—is \$250 including a walnut case, a medallion honoring Robt. H. Goddard; pioneer in rocket development, and 10 rockets, either polished dummies or loaded rounds. The carbines are priced at \$300 in a similar limited run version, also with a supply of rockets.

Extra ammo is priced at \$24.50 for 18 rockets, called a "triple pack." That figures out at about \$1.35 each. For collectors, three rockets in a plastic kit sell for \$6.

To the criticisms we offered, Bob Mainhardt has serious and sensible answers. At least we thought so.

"As I said, the carbine is a prototype. I'm sure we can do better on the buttplate; it was carved out in a hurry. I agree that the trigger pulls are too heavy," he admitted, "but in general, the arms we're putting through now are intended for collectors who, as a rule, won't fire them more than a few times—if at all. The pulls aren't hard to fix; I can work them down to a smooth three pounds in about an hour, and I'm sure the shooter-collectors can do the same. I'd bet that most of them have the guns all apart within 24 hours after they get them."

"Now on sights," continued Mainhardt, "we plan to provide bases for good commercial sights. Perhaps we'll install these ourselves, perhaps not." As for the carbine, we could see no reason why it could not be adapted to scope sights as well, if the proper base were provided.

"Finally, our prices. I can envisage cost of a rocket round on a competitive basis with regular ammo, and probably even less when we get rolling. The same thing applies to the arms, but keep in mind that we're seeing the birth of an entirely new concept in weaponry. It has taken more than five years and a great deal of costly experimentation to develop these things. Right now we have about 35 people working here; later we hope to have more than a 100. Imagine what the value would be today if the guy who invented the bow-and-arrow had numbered the first thousand of them serially!"

It makes sense, and, judging from MBA reports on collector response, a great many of them agree. The batch of 1,000 cased pistols will almost certainly be gone before the snow melts this coming spring. Maybe the carbines, too.

Coming soon! A comprehensive study of the rocket guns for law enforcement and military use, and for underwater sports.—Editor

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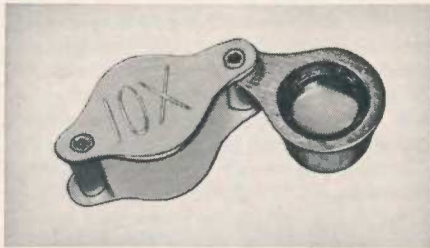
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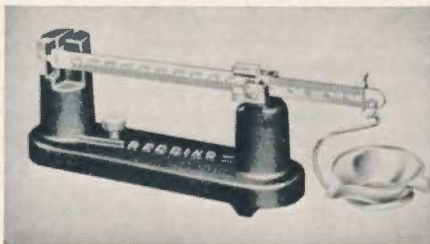
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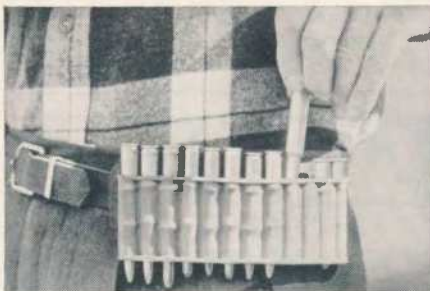
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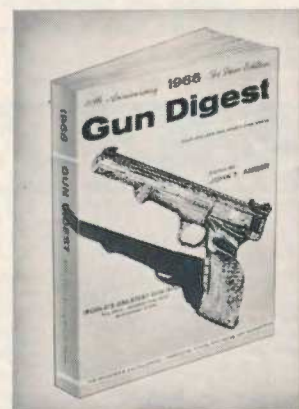


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MAYVILLE Engineering Company, Inc., Dept. G-12, Mayville, Wisc., announced production of a new hydraulically operated shotshell reloader, the "hydraMEC 600." A six-station reloader with all press operations powered by a hydraulic pump and cylinder, the reloader is arranged so that up to 12 operations are performed during every



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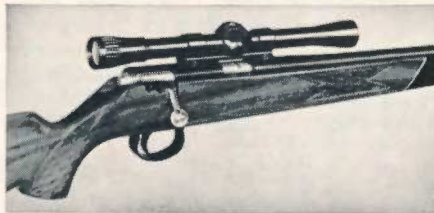
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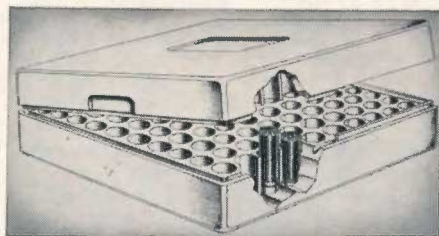
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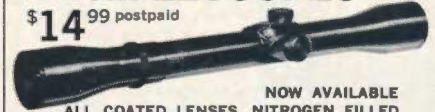
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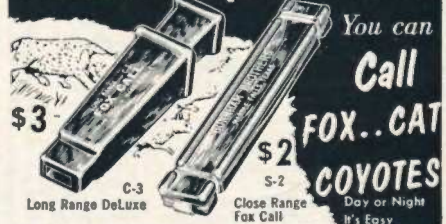


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## QUESTIONS & ANSWERS

(Continued from page 9)

as done by Sears Stores, and many other large department stores). Four of the fire-arms makers I know of that made guns on large contract order with the store name on frame or hbl. are: Stevens, Iver Johnson, Hopkins & Allen, and Harrington & Richardson.—R.M.

### .35 Win. Autoloader

Could you inform me where I might be able to get a clip and ammo for a .35 Winchester Autoloader?

L. R. Reichel  
Nome, Alaska

The last that I heard, Numrich Arms Co., West Hurley, N. Y. has some .35 cal. magazines, and the Chicago Gun Center, Inc., 3109 W. Armitage, Chicago, Ill. 60647 has a few boxes of the ammo.—P.T.H.

### Barrel Length

I have been confused lately by the advent of shorter barrels on production rifles manufactured by the leading firms. Most come either in 22" or 20" barrel lengths in comparison to 24" a few years ago. It was my impression that a 24" barrel was used as a standard and all velocities came from that size barrel. The new belted magnums such as the .264 Win. Magnum were even recommended in 26" barrel length to obtain optimum results.

I question how the shorter barrels effect performance in such calibers as .30-06 where peak performance is desired without going into the new "short magnums." I know that an inch of barrel reduces velocity by only a few fps, but when the difference in retained velocity, say at 300 yards, between two different cartridges is so slight, does not the shortened barrel only reduce the desired results?

Jack Overton  
Petaluma, California

Barrel length is a controversial subject. Short tubes reduce velocity a bit in standard calibers, and a bit more in hot magnums with slow powders. I like short barrels that are handier to carry and handle. I'm willing to lose a little velocity, so long as I have an adequate rifle for the game and range with a good bullet. A "well placed hit with a reasonable caliber, bullet weight, or velocity.

A friend has a .30-06 with a 18½" barrel, which I think is a bit too short. But he has used it for 12 years on elk, deer and bear with good results, and doesn't want a longer tube. You'll like a barrel length you can handle well, if you concentrate on a well placed hit with an adequate load.—K.B.

### Forehand Revolver

I have a "Forehand" .38 caliber revolver with the hammer pointed and used as a firing pin. I would like to know where it was made and its value. I also have a double shotgun, 12 gauge, made by or stamped "prizo Machine Gun." Can you tell me anything about this gun?

Mitchell Reid  
Grant Falls, Va.

Your Forehand was probably made by the

Forehand Arms Co. before Hopkins & Allen took them over; value would depend on condition and range from \$8.00 to \$20.00.

I can find no record of "Prizo Machine Gun" as a shotgun brand name. Just after the turn of the century a vast number of guns appeared, named as per wishes of large hardware dealers, jobbers and distributors; it is very likely that your gun is one of this type.—S.B.

### Golcher Kentucky

I bought an old rusty Kentucky rifle recently and discovered after cleaning it that all parts are marked "No. one CD" and on the lock is "J. Golcher." The rifle is .36 caliber, with a 41" octagon barrel. The stock is maple with brass cap box and butt plate. Does the "one CD" mean it is the first Kentucky rifle with double set triggers made by J. Golcher in percussion lock? I would appreciate any information you could give me on this rifle.

John P. McLaughlin  
Norfolk, Va.

The lock of a rifle is a poor guide to identification; the Golcher's stamped their name upon the locks they made, and unless the rifle barrel is so marked, it can be guessed that the gun was not made by them. Maker of the lock can not be credited with manufacture of the rifle. There were three J. Golcher's; . . . James, John, and Joseph. From your description, your "one CD" could be the assembly mark of the maker. Date of the rifle should be about 1840 to 1855. Without seeing the condition and quality, it should be worth from \$75 to \$125.—R.M.

### Fox Shoots Low

I have a new 20 gauge Fox double, with ventilated rib. I sighted it in on a sand bag rest, and shooting at 25 yards, the center of the pattern was six to eight inches lower than the point of aim. Can you tell me the cause, or more important how to remedy this?

John Graham  
Mattoon, Ill.

Although shooting from the bench has been advocated, I have found that the only way to check the pattern is to shoot off the shoulder. Try that. If that does not move the pattern up, you better take the gun to a gunsmith and have him (a) change the stock for you, (b) put on a lower front sight, or (c) change the choke so that pattern will be delivered higher.—P.T.H.

### .41 Magnum Loads

I recently purchased a S&W .41 Magnum revolver. As yet I have not been able to find bullets for reloading. Speer's No. 6 manual does not have any of the information needed for this reloading. If you have any new information concerning reloading the .41 I would appreciate very much if you would send me this information.

J. A. Kopenhafer  
Little Rock, Ark.

I covered .41 Magnum reloads in the August 1964 issue of GUNS. I don't know of any commercial bullets. Demand is too small for Speer to tool up. RCBS said they



made only 15 sets of dies, most of them for writers. I doubt the gun will be as popular for reloading as a .357 (generally).

Hensley & Gibbs, 2692 E. St., San Diego, Calif., have a superb 4-cavity 210 gr. Bellah .41 Magnum mould at \$27.50 plus postage. They can make sizing dies. Specify your size and .4095". To duplicate the Hi-V factory load use 20.5 gr. 2400 for 1394 fps with CCI 350 Magnum primers. I suggest 19.5 gr. A good light load is 8.5 gr. Unique for 1108 fps.—K.B.

### Daniel Boone

I am interested in learning the origin of a shotgun I have. It is a 16 gauge double with 30" full and modified barrels. The number C-3038 is stamped on all parts. The only other marking on the gun is the name "Daniel Boone" which surrounds a picture of a man in buckskins and a coonskin cap.

Weldie E. Donald  
Atmore, Alabama

"Daniel Boone" was a brand-name used by the Belknap Hardware and Manufacturing Company of Louisville, Kentucky on guns made for them by other manufacturers. From your description one might guess that your gun is 40-60 years old, and cost about \$12-20.00.—S.B.

### Winchester 64

Please give me information on what was about the highest serial number that was put on the Winchester Model 64 Rifle. Also, about what year were the first 64's made.

Joseph Gravitter  
Marshfield Wisc.

The Model 64 was introduced in 1933, and was chambered for the .219 Zipper .25-35, .30-30, and the .32 Win. Special. The .219 Zipper and the .25-35 were discontinued soon, and the other two calibers were very popular and continued to be chambered in this model. Manufacture of the Model 64 ceased in 1956. Serial numbers continued in the model 1894 series.—R.M.

### Detective Work

I would like some information on the following shotgun: marked "New Ithaca Gun" on side, no. 73387, 12 ga. double barrel, with hammers, checked forearm and grip. When was it made? What price? Was it a quality gun or cheap? Did they build a Damascus gun? Is it safe to fire today's shells?

Douglas Waters  
Jefferson, Ga.

As near as I can tell from checking old Ithaca catalogs, your gun was made about 1910 or 12 and it was Damascus barreled. The original price was about \$30. We do not recommend the use of modern shells in old double barreled shotguns. —P.T.H.

### New Weapon?

I recently saw a picture in a Bangkok newspaper (photostat enclosed) depicting a new recoilless weapon which is being made for the U. S. Navy. I would be grateful if you could identify this weapon for us and advise the name of the manufacturer, as we are very interested in contacting them.

J. H. Winters  
San Francisco, Calif.

The illustration represents what is now generally known as the "M-16", a version of the "M-15" as designed by Eugene M. Stoner

and manufactured by Colt's Firearms Div., Colt Industries, Hartford, Conn. For further information, you may contact the above company.—S.B.

### Colt Derringer

I have a Colt 3rd Model derringer, silver plated, with all of the finish on the frame and about 75 per cent on the barrel. It has a good bore and is mechanically perfect. The barrel and frame are stamped "No. 26" and English proof marks are on the underside of the barrel. Please tell me approximate date of manufacture and value.

Gary D. Davis  
Kansas City, Kansas

Colt's derringers were the first cartridge arms put on the market by the Colt Company. The No. 1 and No. 2 Derringers were made from 1870 to 1890. The No. 3 Derringer made from 1875 to 1912. Value of the Derringer you described (condition and finish) should be about \$95.00.—R.M.

### Best Dove Chokes

I am planning to buy a Model 11-48 Remington in 28 gauge for quail and dove hunting. Most of our shots here at quail are from 15 to 25 yards and doves from 20 to 35 yards. Would an improved cylinder and a full choke be best for this type shooting or would a modified be best for one or both types?

Cecil Wells  
Mount Olive, N.C.

For doves and quail at 15 to 25 yards, your best bet is the improved cylinder or the modified barrel in the M 11-48.—P.T.H.

### Berdan Primers

Where can I obtain a hand tool to deprime Berdan primers? As you know, most of the ammunition used in central Africa is manufactured in England and uses this type. I have tried to lever them out but merely manage to ruin the seat.

F. M. Simpson  
Africa

Like you, I often damage a Berdan pocket when I "lever them out." I believe Alcan Co., Alton, Illinois, has a Berdan primer remover. Hydraulic pressure removes them OK. Make a punch that fits the case mouth. Fill the case with water, place it over a hole to catch the primer. Drive in the tight fitting punch with a hammer blow. I believe this is even better than a primer remover tool. Occasionally I take a 5 minute break to give silent thanks for Colonel Boxer's primer.—K.B.

### Rapassin Pistols

I would appreciate your assistance in identifying and evaluating a pair of single shot percussion pistols which bear the name of "Rapassin A. Bergerac." The octagon barrels have a beautiful damascene effect and the entire set is in excellent condition. The fitted case has, on its cover, a metal plaque which reads "Gral Minot." This is an engraving.

James F. Mahon  
Boston, Mass.

I can find no reference to "Rapassin A. Bergerac" in any of the standard directories or my private lists; however there were many

(Continued on page 58)

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(Continued from page 57)

artists, jewelers and related craftsmen that had guns made on contract, whose names have long since been lost. In a way, the current practice of affixing a "brand name" to a product of another's labor is somewhat similar. If you could carefully sketch whatever "proof-marks" may be on the guns and send them along, I might be able to indicate place of testing. It is difficult to evaluate your set without physical examination, but photographs would help.—S.B.

### Old Smith & Wesson

I have a .38 Smith & Wesson revolver that is marked for ".38 S&W Ctg." The serial number is 209650, and the patent dates are Oct. 2, 1883; Aug. 4, 1885; April 9, 1888. I cannot find a model number. The revolver is hammerless and you have to squeeze the grip before you can fire. Is it safe to shoot modern ammo in it? Can you tell me the history and value of the gun?

Max B. Laney  
St. Louis, Mo.

Smith & Wesson, in 1887, brought out the Model .38 Caliber Safety. Also called the "Safety Hammerless" and "New Departure Model." It was as foolproof a revolver as any ever made. It has been manufactured in five models, each a little different than its predecessor in some small refinements. The safety feature (squeeze grip) was ingenious and was the work of Daniel Wesson himself. It was made with barrel lengths of 3 1/4, 4 and 5 inches; either blued or nicked. You can shoot your .38 Safety Model; suggest you have it checked over first by a gunsmith to see that it is in firing condition. Value of the Safety Model today, to the collector, should be about \$15.00 to \$25.00, depending on the condition.—R.M.

### 1901 Winchester

I recently acquired a 10 ga. model 1901 Winchester lever action shotgun, serial number 77053. The wood is scratched and some of the blue is worn off, but otherwise it appears in good shape. What is the gun worth?

Are 10 ga., 2 7/8" shells available, and is this model safe for 2 7/8" shells of recent manufacture? Is there a reloader for 10 ga. similar to the Lee Loader?

Arthur W. Hanley  
Fort Eustis, Va.

The value of your 1901 Winchester lever action shotgun is about \$30. This gun is not safe for anything but black powder loads, and the Lee Loader is available in 10 ga.—P.T.H.

### Loading Funnel

Can you tell me who makes a funnel for loading .17 caliber Javalin cases. I lose more powder than I get into the case with a Fitz and others as they are made for .22 caliber and larger cases.

Dee M. Patterson  
Houston, Texas

I don't know of a .17 powder funnel. We like a Fitz in larger calibers very much. We made a 1/2" long brass insert for this funnel with a .17 hole tapered on both ends. It's a press fit and works well, but a .17 is still

hard to load. I'll ask Fitz if they think sales would be large enough to justify making a .17, and will let you know their decision—K.B.

### European .32 Auto

I purchased an automatic pistol of .32 caliber a few weeks ago and am in need of some information. The pistol bears the serial number 245102 and on the side of the barrel is the word "Germany" followed by some sort of an emblem followed by the letter Z or N depending on the angle of viewing. The firing pin, when cocked, projects out about 1/4". I was told that the pistol is a .32 German Dryse. The information I need is: Is this a German Dryse and where can I purchase a clip for it. The clip I now have holds nine rounds but is in bad shape.

Strawder Maddox  
Lake Charles, La.

It is true that most Dreyse pistols have firing pins that project from the rear when cocked; however, this is also true of many other pistols, and from your description, I doubt if your gun is a Dreyse. Every Dreyse I ever encountered bore the name stamped quite legibly on the left side; also, the barrel of the Dreyse is covered by the slide. If you will forward a pencil outline tracing of your gun, I'll try and help you. Please include, very carefully, each and every identification mark.—S.B.

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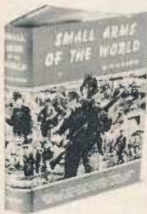
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2. Title of publication: Guns.
3. Frequency of issue: Monthly.
4. Location of known office of publication (Street, city, county, state, zip code): 8150 N. Central Park Avenue, Skokie, Cook County, Illinois, 60078.
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6. Names and addresses of Publisher, Editor, and Managing Editor:  
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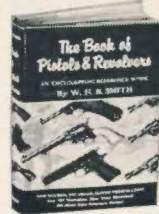
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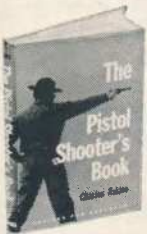
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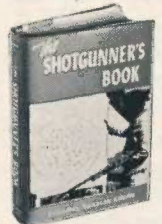
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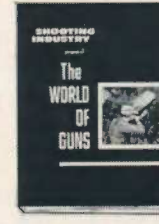
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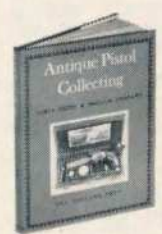
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**PERCUSSION GUN**

(Continued from page 32)

cylinder indexed a quarter turn by hand, the barrel slid back, and the nut is tightened again. The intrepid shooter is then ready for another fast three shots.

The real pay-off is the fantastic arrangement in the breech end of the barrel. The maker figured that there must be some means of keeping all or most of the propelling gases from leaking out of the flat funnel-like breech as the bullet passes through to the barrel proper. Hence he arranged two steel plates, pivoted at their rear ends. They can swing in either direction to accommodate the bullet, regardless of which chamber it comes from. Theoretically this prevents a large loss of power and renders the system feasible.

Of course the bullet must be square to permit such an arrangement, but the muzzle-end is round, hence the happy inventor planned on swagging it round somewhere down the line. Since the bore is a dark and dismal hole, it is not possible to determine just where he planned on doing this. Chambers are about .47, the muzzle about .42, and I'll leave it to you to figure it out.

I like to shoot old guns and have fired flintlocks, a Hawken, Henry's, Spencer's, teat-fires, Sharps, Ballard's, and many others. However, this is one that has never tempted me in the slightest!

It's interesting to note that this gun was built without the use of any machine tools. The job was done by forging and filing, and no doubt the use of a screw-plate for cutting threads.

Some years ago, at a meeting of the Wisconsin Gun Collectors, a group of knowledgeable collectors had a star-chamber session over this one. The group included Nick Harrison, editor of the late-lamented "Gun Collector," and Eldon Wolf, curator of the famed Nunnemacher Collection of the Milwaukee Public Museum. We agreed that the gun had its origin in the American backwoods and was probably made about 1850—but that was as far as we could go.

The maker obviously completed the gun only far enough to test it. For example, he did not provide trigger springs, and the piece must be held muzzle-down when cocking so that the triggers engage the sears. I wonder why he never finished the job?

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**GUN RACK**

(Continued from page 7)

string, slightly under 2 inches at 100 yards. Trigger pull was smooth, functioning and finish of the gun was flawless, and for the advertised price, the FN400 is a bargain. Klein's offers the same rifle completely scoped, and the test gun carried a Realist scope in Realist mounts. These mounts, by the way, are sturdy and foolproof and have stood our extensive tests on the 7 mm Magnum very well. The Klein FN 400 has the usual features such as Monte Carlo Cheek-piece, well finished and checkered walnut stock, adjustable rear sight and hooded ramp front sight, hinged floor plate, adjustable trigger, and thumb safety. Barrel length is 24 inches, and total weight of the gun, without scope or sling, is 7½ pounds. Prices vary with caliber, as well as with scope, but whichever way you look at it, these scoped rifles are a good buy. Write to Klein's Sporting Goods, Dept. G, 227 W. Washington Street, Chicago, Ill. 60606.

**Gun Cases**

Rugged and handsome would be about the best way to describe the Protecto-Kaddy cases. These cases come in a wide variety of sizes and shapes; you can have one for a single gun or for two, for long guns and for handguns, for take-down models and for solid frame models. We received a Model RC001 which is 12" wide, 48" long, and 3½" deep, thus will accommodate two rifles or shotguns. When the case arrived, we were testing a new chronograph with two rifles, and we used the case to move our guns back and forth to the range. One of the guns is a very fine, lightweight sporter in .222 Remington which is topped off with an 8X Unertl USMC Sniper scope in target mounts; the other gun used in these tests is a custom stocked Model 70 in .375 H&H. The Protecto-Kaddy with the two guns bounced around in our Toyota Land Cruiser for almost two weeks, and the last but inadvertent test came when the case with the rifles bounced off the tailgate as we crossed a muddy and rocky area in 4-wheel drive. As soon as the case was washed off, we double-checked the scope on the .222—it was completely undisturbed, despite the fact that the heavy M70 could have easily jarred it off its moorings. The Protecto-Kaddy is strong enough to carry the weight of two adults, and the double suitcase handle makes carrying the case easy. The cases can, of course, be locked, and a number of case designs for cameras and other gear are available. There is, for instance, a case for bow and arrows, another for cameras, still another for a spotting scope. You can get these fine cases from your dealer, or you can obtain full information from Protecto Plastics, Inc., P. O. Box 37, Wind Gap, Pa. 18091.

**Rare Books From England**

If you are looking for British gun books and some of the fine English hunting books of yesteryear, and cannot find them anywhere, drop Jim Stonley a note. Jim specializes in firearms books and has been able to locate a number of books for me that could not be found here. Write to J. Stonley, Startforth Lodge, Startforth, Near Bar-

nard Castle, Co. Durham, England, for his latest list. Prices quoted are in dollars and you pay when the books reach you.

**Gloy's Camping Gear**

For quite a spell I had been looking for an unbreakable mirror for my panniers and for a waterproof bag for my cameras. I found both of these items in Gloy's Inc. catalog and ordered them pronto. This outfit specializes in camping and sporting equipment of the highest quality, and I liked the looks of the #55 Frame Pack so well that I ordered that one too. The whole lot of stuff arrived in the nick of time to be packed up and taken along on a major hunt in the Yukon Territory. The mirror was in constant demand—it is made of steel and is chrome-plated, thus survives the rigors of camp life. The Flote Bag that housed my cameras was a life-saver; we had 9 days of rain, fog, sleet, and snow in 10 days of hunting, and my camera gear remained dry and safe. The frame rucksack turned out to be a real handy thing, especially when we moved spike camp every few days and had to travel ultra-light. Write to Gloy's Inc., Dept. G, 11 Addison Street, Larchmont, N. Y., 10538, for the current catalog.

**Hornady Bullets**

Joyce Hornady, the bullet maker of Grand Island, Nebraska, has gone into the match bullet field. He now offers a super-accurate .22 caliber, 53 gr. H.P. bullet that is tailored for the needs of the benchrest fraternity. At .222 velocities, the same bullet can be used for varminting. Diameter, jacket concentricity, and uniformity of weight are excellent, and shooting results in a standard sporter .222 were excellent. Joyce recently returned from the benchrest matches in Johnstown, New York, where he unveiled his .30 caliber match bullets. Benchresters usually don't change bullets in the course of a match, but several of them tried the new Hornady bullets and liked them so well that they used them in competition with most gratifying results.

**Gun Holder**

This gun hanger, called the Redi-Rack Gun Rack, is a handy item. It consists of a mounting rack and a barrel holder, both made of sheetmetal that is finished with Coppertone Enamel. All you need is a screwdriver, two minutes, and a wall space big enough to accommodate a gun—and presto, your gun rests safely and handsomely in the gun rack. The mounting rack, available for left and for right hand hanging, has ample vinyl foam padding to protect the butt of the gun, and the barrel support features a soft leather cushion that protects the blue of the gun and the stock finish. A complete Redi-Rack that holds one gun retails for \$3.95, and any number of guns can be hung on a given wall space; with guns angled only slightly, a great number of guns can be displayed. Made by the Ferrell Co. (Dept. G, Route 3, Gallatin, Tenn., 37066), the Redi-Rack should by now be in the local sporting goods stores.



## Lyman DeLuxe Dies

Lyman Gun Sight Corp. now offers these dies in all rifle calibers, and these are nicely finished precision loading dies. The test set received by GUNS Magazine were for the .243 Winchester, and I loaded a passle of brass with them. Of about 100 rounds, I neck sized about half the cases, the rest were full length sized and loaded rounds were run through the action of my custom rifle. After checking the brass for chambering, I miked the full length sized cases and compared my finding with the factory case specs—they agreed right down the line.

The Lyman P.A., and that stands for Precision Alignment, is a new feature that assures correct bullet seating and crimping. The new Lyman dies are chrome plated for permanent protection, and the steel hex nuts for positive dies adjustments are, in my opinion, a considerable improvement. If you want further information on the new line of Lyman dies, drop the company a note. Write to LGSC, Dept. G, Middlefield, Conn.

## Hatchet Axe

When is an axe a hatchet, and when is a hatchet an axe? I had often wondered about this, and now can offer an explanation—at least I was able to until I found a tool that is called Hatchet Axe. An axe, according to Vaughan & Bushnell Mfg. Co., (135G South LaSalle Street, Chicago, Ill., 60603) is not to be used for pounding or hammering since the head design and angle of handle to head is not built for this kind of force. A hatchet, however, is made for use of the cutting edge and the pounding on the flattened rear part of the head won't affect the fit of head on handle. The Hatchet Axe, designed for sportsmen, is a 17 inch long axe and hatchet combination, and the greater length of the tool makes it a great deal handier for axe work than the shorter sportsmen axes on the market. If your local hardware store or sporting goods store does not have this handy camp tool in stock, write to V&B at the above address and they'll see to it that you can get a Hatchet Axe locally.

## Stevens M 95

When we saw this gun in January of this year at the NSGA show, we were intrigued by its heft, and its smooth action. Off and on during the past months, we have been banging away with the test gun, and no matter what ammo we used, it shot as well as the guy behind the butt was able to hold and swing.

Chambered only for 12 gauge 2¾" and 3" shells, the gun comes with either a 28" modified or a 30" full choke tube. At my special request, I was shipped the full choke gun, and this Model 95 makes not only a fine single shot beginner's gun, but also a dandy and inexpensive trap gun. In this respect, I would like to see Savage offer a Model 95R—the R meaning rib, preferably a ventilated one.

The action is a smoothly functioning piece of engineering and the low rebounding hammer can only be fired when trigger is pulled. The extractor is spring operated and performed flawlessly, and a feature that is of interest to southpaws is the breaking mech-

anism. This is of the push button type on the side of the frame and permits easy gun breaking with either the left or the right hand. This is a solid frame gun, well finished, weighs about 7½ pounds, and stock dimensions are: length 14"; drop at comb 1½"; drop at heel 2½". Stock is well finished and has a full pistol grip and a fluted comb, and the hard rubber butt plate can, if so desired, be removed and a regular kick pad can be installed. I patterned the gun with W-W Mark V shells first, then with trap reloads, and both sessions at the board showed that the gun was full choke, the trap pattern being just a fraction more full than the pattern I got with 7½'s. If you are hankering for a good and reliable single shot 12 ga. gun, you should take a good look at this one—I think you'll like it.

## Redding Powder Measure

Redding-Hunter, Inc., 114G Starr Road, Cortland, N.Y., now offers their Master Powder Measure with their Universal Micrometer. In place of the Universal Micrometer, the Model #3 can be equipped with the Pistol Micrometer, or the Pistol Micrometer can be purchased from your Redding dealer for \$6.50. Redding shipped us one of these powder measures, complete with the pistol unit, and we have been comparing it with three other measures. The Model #3 is a solidly built, precision made, and highly accurate powder measure that delivers uniform charges when the operator does his job of manipulating the handle in a uniform manner. Like all other powder measures, this Redding tool also operates on the principle of cutting powder granules, and we found that even 5010 measures evenly and with a high degree of reliability. The micrometer is a material help in setting the measure to deliver a given amount of powder and it should be kept in mind that the micrometer does necessarily give the same degree of accuracy that a good bench scale will. In setting the micrometer for several charges, and then checking the charges thrown on two scales, the maximum deviation obtained with a uniform operation of the measure, was ± 0.2 grains. With careless or sloppy operation, it was possible to have as much actual charge variation as ± 0.5 gr. For max or near-max charges, weighing of several charges, or at least checking every tenth thrown charge is strongly recommended, but for reduced charges, weighing can be omitted if the operator is careful in handling and manipulating the measure. Throwing 50 charges of a standard load, and then weighing each charge on two scales, there was but one charge that was overweight, and this was only 0.1 gr. Of the remaining 49 charges, two were underweight, each by 0.1 gr. This is excellent accuracy and is on a par with the performance of another powder measure which was used as control throughout the tests.

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By Harry K. McEvoy and Charles V. Gruzanski

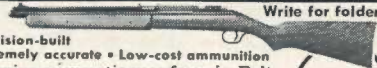
(Charles C. Thomas, Springfield, Ill., 1965. \$4.50)

Knife throwing, as a profession practiced by steel-nerved performers on the stages of theaters, carnivals, etc., is well known to many sportsmen. Few, however, know of the sport of knife throwing; for recreation or hunting. While this book may not make an expert knife thrower out of anyone, it serves well as an introduction to the sport and as a source of basic information on the throwing methods, the equipment, and even the competitive aspect of the sport. If you're looking for new sporting fields to conquer, perhaps knife throwing is what you've been looking for—and this book will get you started.—J.R.



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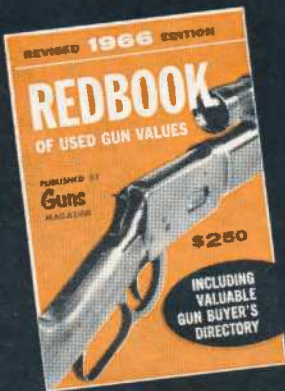


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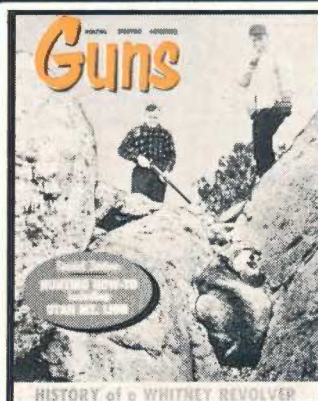


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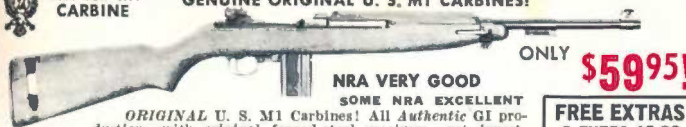


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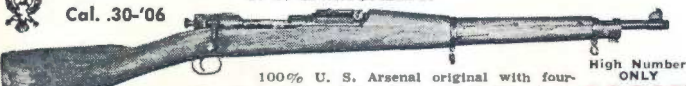


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	<b>E</b> 8MM Mauser Soft Point (40 rds.).....\$6.00
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# “Imagine Winchester bringing an Englishman from Africa to hunt a Chinese bird in America.”



**The Englishman: David Ommanney**  
**The bird: The ring-necked pheasant**  
**The gun: The Winchester Model 1400**

The reason we invited David over here in the first place was to see what an African hunter thought of *American* game.

And then he tells us our pheasant is a ringer. Well!

“Maybe he’s not exactly an all-American bird,” we pointed out. “But he’s been here long enough (since 1881) to get his citizenship.”

Then we tramped David through a cornfield to find us some ringnecks.

The gun he was using, by the way, was one he’d tested for us on safari the year before. The new Winchester 1400 automatic.

This gun weighs under 7 lbs., yet has up to 10% less recoil than other automatics. And its front-locking rotating bolt (exclusive with Winchester) is the safest, strongest breeching to be found in a shotgun.

What did David think of it?

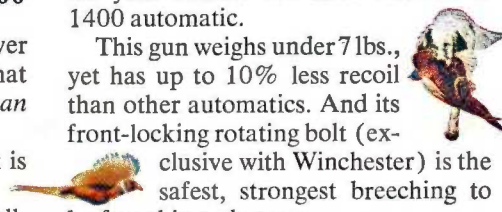
“I wouldn’t be here if I didn’t like what I saw in Africa,” he told us. “I’ve never seen a gun so quick to point.”

Meanwhile, a couple of birds gave our dog the slip (they’d rather run than flush). And David was mumbling something about a pheasant’s ancestry, when ZOWIE!

A cackling, gaudy-colored, long-tailed cock rocketed straight up in front of us, leveled off and streaked away. Only to run smack into a pattern of 6’s from David’s Model 1400.

“He’s really quite a bird,” said David, as he took his pheasant from the dog and held it up.

“He’d be darn good shooting—in any man’s country.”



Model 1400 Automatic.  
Price \$144.95.