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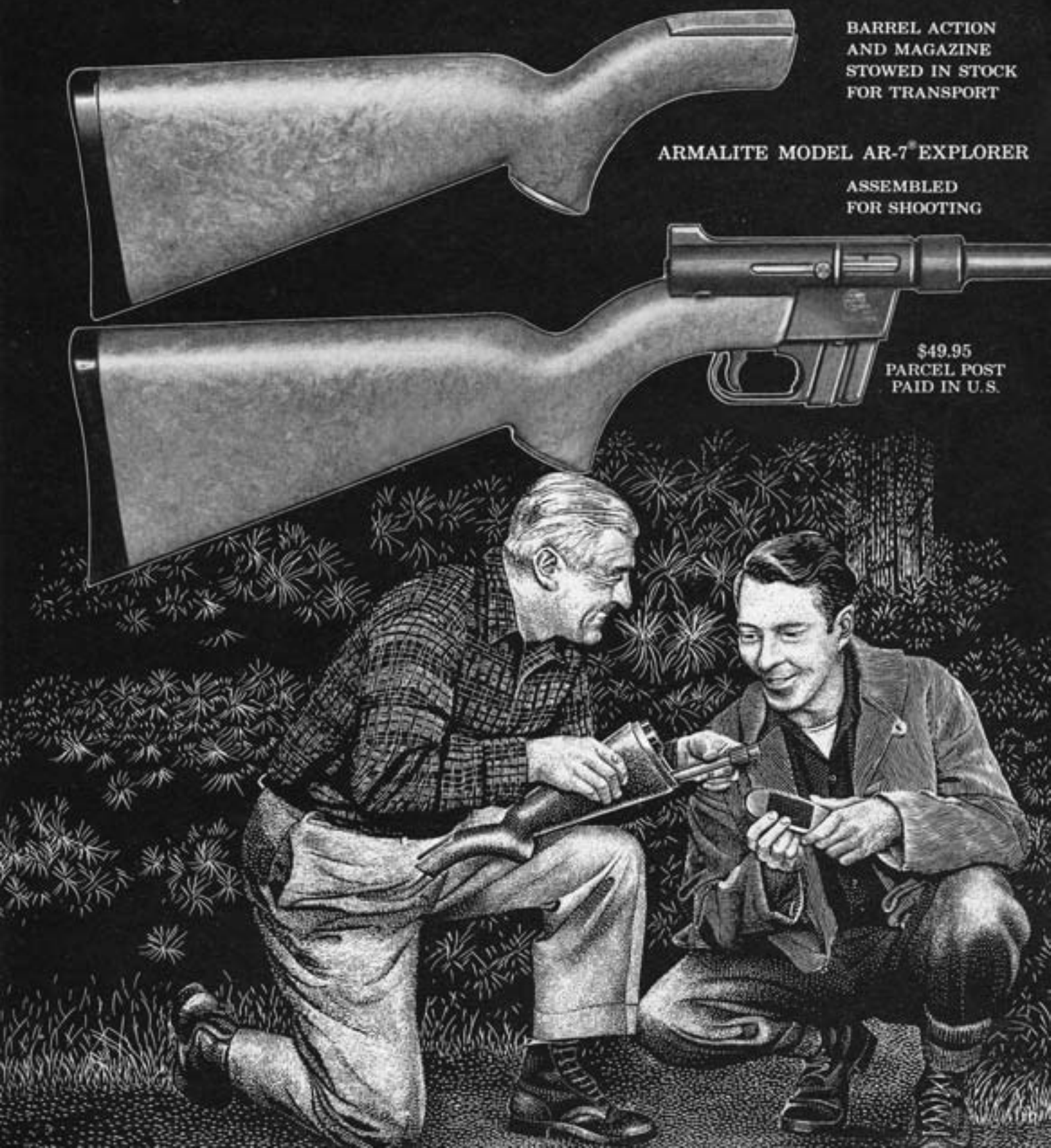
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ABOVE: AR-7 floats both assembled (as shown) or with barrel, action and magazine stowed in stock. BELOW: AR-7 shown with major components disassembled.

SPECIFICATIONS

CALIBER: .22 Rimfire, Long Rifle.
ACTION: Semi-Automatic. **LOAD:** Detachable box, magazine fed.
SIGHTS: Adjustable ramp front, adjustable rear peep. **CAPACITY:** 8 rounds. **BARREL:** 16" precision high grade steel rifling. **STOCK:** Full pistol grip, fiberglass, recessed to carry barrel, action, magazine. **WEIGHT:** 2¾ lbs. **OVER-ALL LENGTH:** 34½". Length when **STOWED:** 16½". List price: \$49.95, including one magazine. Extra box magazines, \$2.45 ea., list.

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KNOW YOUR LAWMAKERS

Congressman Daniel J. Flood
Committee on Appropriations
11th Dist., Pennsylvania

THE SECOND AMENDMENT to the United States Constitution assures the American people the inalienable right to keep and bear arms for their security and this right cannot be infringed without negating the purposes and principles of our free society.



Congressman Byron L. Johnson
Committee on Banking & Currency
2d Dist., Colorado

ALTHOUGH THE SECOND AMENDMENT has never been repealed, its original purpose of a civil militia, and assurance of the right of popular revolution, no longer holds today. Certainly, the legitimate use of guns is widely accepted. The abuses—both deliberate and accidental—should lead thoughtful citizens to a growing concern for safety and the protection of human life and property.

In protecting the constitutional right to possess and carry arms, we must not overlook the need for a broader program of safety education in the handling of firearms to help reduce the tragic loss of life and great number of injuries.

The constitution was also intended to insure domestic tranquility; and the public has a right to reasonable protection against felonious use of firearms.

Congressman George Huddleston, Jr.
Committee on Armed Services
9th District, Alabama

THERE WERE TEN basic rights which, we are told, the founding fathers agreed to attach as amendments to the Constitution of their authorship so that it would be ratified and accepted as the law of the land. It is significant that the second of these amendments, known collectively as the "Bill of Rights," cites the "right of the people to keep and bear arms."

Considering the circumstances of that historical period, it is easily understandable that the need of a "well-regulated militia" should be mentioned in connection with that right. It is interesting, however, that there is no stipulation that those who "keep" arms must use them only for purposes of the militia. (Emphasis supplied.)

In my opinion, that right is just as important to us today, as individuals and as a democratic society, as it was to our forefathers. We have, of course, a permanent military force that stands ready to defend our boundaries against foreign attack and, in most communities, a trained police force obviates the necessity that each family be ready to defend itself by use of arms. Nevertheless, there are still occasions and areas (and unfortunately not just in isolated, non-populated places) where one might have to serve as his own "militia" in numerous emergency-type situations.

Further, personal ownership and knowledge of guns have made thousands of citizens valuable members of the National Guard, military reserve units, and Civilian Defense Corps groups. These organizations have, of course, been declared by law to be vital to the strength, safety, and general welfare of our nation.

Certainly, then, in my mind, there is no doubt as to the importance of the second amendment to the Constitution as it affects us in the present-day situation, nor any doubt that it must be actively retained as a major right of our people.

Congressman Ken Hechler
Comm.: Science & Astronautics
4th District, West Virginia

I BELIEVE THE Constitutional right of the people "to keep and bear arms" is still significant in today's world of atomic bombs and guided missiles. In a limited atomic war, the possession of small arms would enable our citizens to resist invading troops more effectively.

World War II dramatized the importance of the citizen's right to keep and bear arms. The list of licensed gun-owners in the town halls of conquered Western Europe enabled the Nazis to more easily combat the underground. And one of Churchill's most urgent requests of the United States was for the shipment of a half-million .30 rifles for the Home Guard.

But a somber responsibility goes with our Constitutional right to keep and bear arms—the responsibility for stringent safety measures and proper instruction in their use.

Readers' Note: All Congressmen may be addressed as "House Office Building," and all Senators as "Senate Office Building," both at "Washington 25, D. C."

Guns

FINEST IN THE FIREARMS FIELD

JUNE, 1960

Vol. VI, No. 6-66

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THE COVER

Firepower for soldiers and the gun-fun story of Lucky McDaniel tie in with issue of M-14 rifle to 101st Airborne at Fort Campbell, Ky. "Firepower," story of M60 machine gun is GUNS exclusive review. But Lucky's own story will help you improve skeet scores, get more fun from gun sports, and may aid in using M-14 just released to civilian marksmen through the D.C.M.

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GUNS magazine is published monthly by Publisher's Development Corp., 8150 N. Central Park Avenue, Skokie, Illinois, second class postage paid at Skokie, Illinois, and at additional mailing offices. SUBSCRIPTIONS: One year, \$5.00. Single copy 50c. CHANGE OF ADDRESS: Four weeks notice required on all changes. Send old address as well as new. CONTRIBUTORS submitting manuscripts, photographs or drawings do so at their own risk. Material cannot be returned unless accompanied by sufficient postage. PAYMENT will be made on rates agreed at time of acceptance and will cover reproduction in any or all GUNS magazine editions. ADVERTISING RATES furnished on request. Copyright 1960, Publisher's Development Corporation. All rights reserved.

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GUNS in the NEWS

[Special]—

◆ **Lewiston, Idaho:** Through the cooperation of Dick Speer of Cascade Cartridge Inc., and the Cascade Television Co., live trap shooting was TV'd from the grounds of the Lewiston club to hundreds of thousands of residents of northern Idaho and eastern Washington. The program drew high viewer ratings. The camera covered the whole line of shooters, with close-ups of interesting individual competitors. The members reported that the TV equipment did not bother them nor hurt their scores.

★ ★ ★

◆ **Hollywood, Calif.:** A fighting mad Gene Autry, miffed at TV Western heroes who claim they can outshoot singing cowboys, offers to bet \$10,000 that "a 16-year-old boy working for me can outdraw and outshoot any TV actor." Anyway, Autry said, "I've always thought the quick draw was overrated. I tried to sing myself out of situations, rather than shoot my way out."

★ ★ ★

◆ A dry, roasted bird is a thing of the past in Argentina, according to Veterinary Medicine Magazine. An hour before a bird is slaughtered, it is force-fed a tablespoon of cognac. The bird relaxes and tensions disappear. Cognac adds a slightly extra zest to the flavor of the meat. Hunters have one problem: how to administer a toddy to a scary grouse or wary pheasant. We suggest a bit of salt on the tail to pin the bird down. If this fails, #6 or #7½ shot, liberally applied, may turn the trick. If all else fails, shoot and dress bird, present to wife for cooking, take off boots by fireplace, force-feed cognac to self.

★ ★ ★

◆ **Eclectic, Ala.:** Two bandits kidnapped Eclectic's police chief, then forced Cashier-manager Carl Ray Barker to open the Bank of Eclectic. Then they held the police, the banker, Barker's wife and small daughter, at gun point for an hour until a time lock would open the bank vault. James Franklin Bray, one of the bandits, forced Police Chief Maxie Taunton to go with him to find adhesive tape with which to bind the captives. In their absence, banker Barker offered William D. Hayward, the other bandit, a cup of coffee. When Hayward held out his cup for filling, Barker threw the pot of boiling coffee over him, then grabbed his gun. When Bray returned with police chief Taunton he was covering the officer with drawn gun. Fearing that a challenge would cost the officer his life, Barker fired. The gun he had taken from Hayward was a 16 gauge shotgun. The charge hit Bray in the chest, killing him. In an ensuing scuffle, Barker shot the other bandit, Hayward, in the leg. Barker has other non-banking connections. He is a National Guard captain and a fire-arms instructor.

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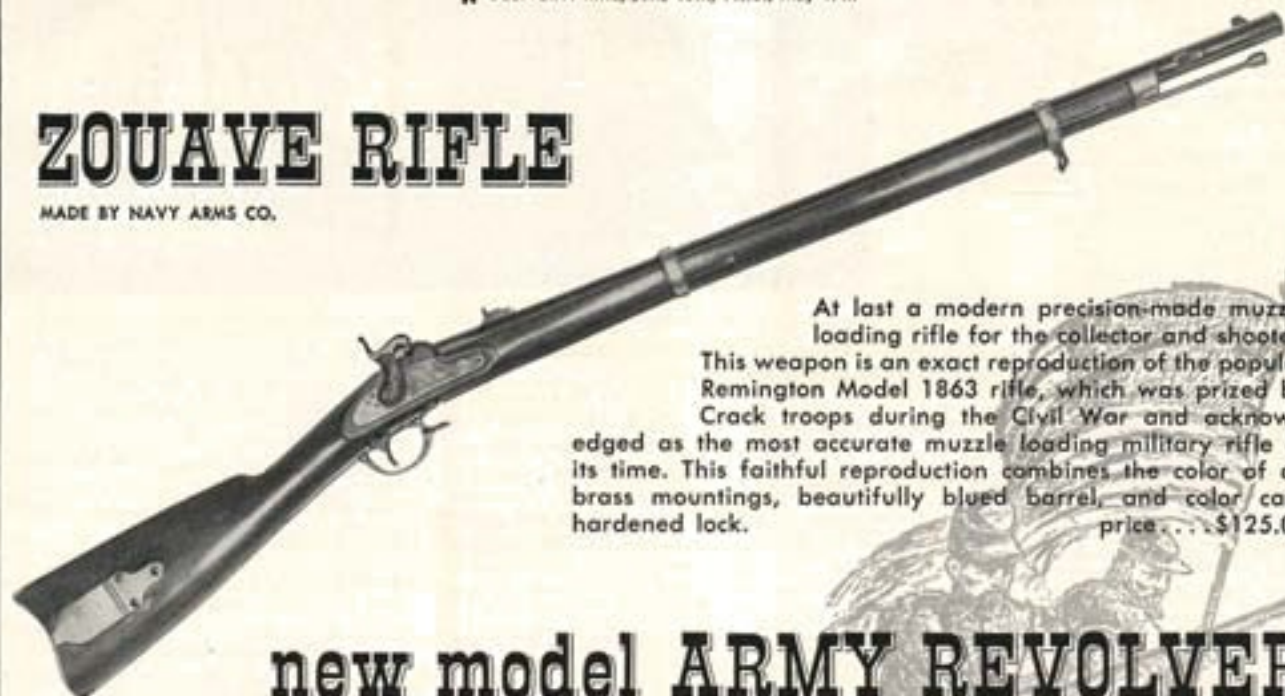
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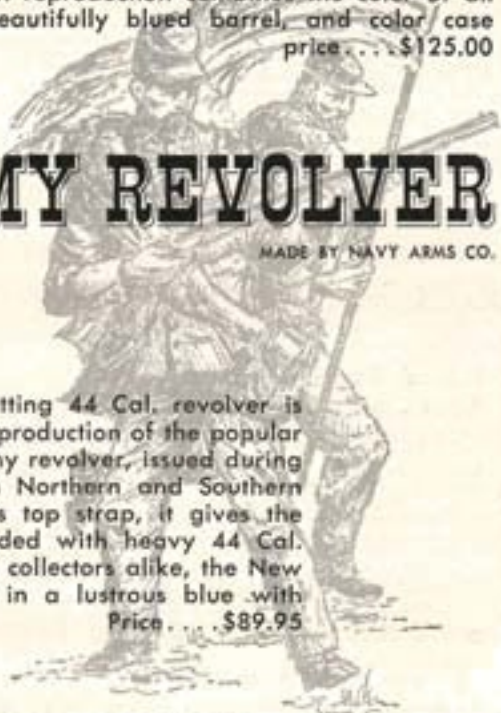
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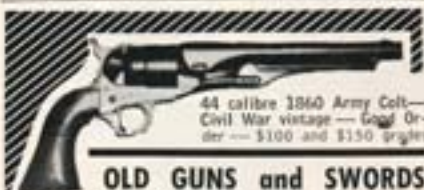
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Elmer Keith says ...

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For over a year, we have been working with Edward H. Bohlin, 931 Highland Ave., Hollywood 38, Calif., on a combination fast draw and hunting rig for all sixguns. Bohlin has made fancy outfits for a great many fast guns and movie stars.

The first Bohlin rigs that I tried out carried the gun far too low to suit me, either for comfort or fast work. They also carried the gun either vertical or with the butt tipped to the rear, to suit some of the fast guns who use the hammer draw with the single action. This was all wrong for me, as I like the gun butt tipped forward, so I can throw the gun toward the target as I draw, and fire only when it lines up with the target. I also like a belt and holster that will carry the gun higher, where it is less in the way and not flopping against the leg when walking. A tie-down is fine on such rigs when riding, but damn uncomfortable when climbing steep mountains on foot.

For years, I have favored the holster with a loop to slide on the gun belt, and have always favored a gun belt of 2 1/2" width. This type of belt, however, means carrying the belt rather loose, below the top of the hip bones, to get the butt of the gun about half way between elbow and wrist when arm is hanging naturally. This is the best height for me for fast work. Riders find that, when the cartridge belt slants down to a holster carried thus, the cartridges tend to rub a high cantle, and the top of the cantle, unless you ride a low roper, can push the cartridges out of the loops.

Bohlin made me a visit here at Salmon, Idaho, and we decided to combine our ideas. This resulted in a drop-loop belt, but with the holster loop right on a line with the bottom edge of the belt. This permitted wearing the belt squarely around the body, in line with top of the hip bones or just be-

low, and the holsters were streamlined as to skirts, so they could be interchanged on the one gun belt, thus permitting the use of a number of different quick draw holsters on the same belt, for either single action or double action guns.

Bohlin has long produced the finest of all safety straps for all guns. This consists of a tab of chap leather with a knot on the end, fastened to a small coil spring and with a slit to go over the hammer spur. In use, you carry the gun with the strap over the hammer spur; but when the gun is needed, you simply grasp that knot at end of the strap, pull upwards, turn it loose, and it flies away clear of the gun. You can ride bucking horses (as both Bohlin and I used to do), turn somersaults, or fall in the river, and come up with your gun still in the holster. It simply cannot get out of the holster with that spring-loaded tab of leather hooked over the hammer spur. Yet it is the fastest safety strap of all to clear when you need the gun in a hurry, and to my notion the most practical ever devised.

My own long-tab safety strap with glove fastener, or the thong loop over the hammer, or the safety tab with a hole in it through which you let the (Single Action) firing pin down, will all hold the gun in the holster; but only the old A. H. Hardy design with firing pin let down through a hole in a narrow strap will clear the gun quickly. With the Hardy rig, you simply draw the gun, cocking it as you draw and thus freeing the gun. My safety tab and the old thong loop over the hammer spur are both slow to clear in an emergency, the thong loop being the slowest of all. The Bohlin spring-loaded safety strap is the answer to a lot of problems.

Bohlin made up a 2 1/2" belt and several holsters, for S & W .44 Magnums with various barrel lengths and also for the Dagoon Ruger .44 Magnum. These rigs hold the gun just as I like it, with the butt tipped forward at just the right angle and with the top of gun just above the top edge of the belt and just between wrist and elbow. These have proven the most comfortable rigs I have ever worn.

Both belt and holsters are calf lined of finest leather. The holsters fit the different model guns perfectly, leaving trigger and hammer clear of the leather but coming right up to the target sights on the rear of the frame, for protection. He furnishes tie down strings, but they are not necessary at all. A small strap and buckle fastens the back skirt to the holster proper, and a thong also ties them together at the tip. If you wish to change guns and holsters, it is a simple matter to unbuckle the strap and untie the thong, remove the holster and replace it with another for a different model gun. Holsters

fit very tight in the belt loop, with a flange of leather on the skirt at the edge of the loop, so they cannot move. Bohlin can make these rigs in either plain leather or the finest of hand carving, and with either plain nickel buckles and leather keepers or the finest hand engraved sterling silver buckles and keepers. The resulting gun belt and holster rig hold the gun in exactly the same position at all times, and is the neatest, most comfortable and practical gun belt rig I have ever used. It can be made to hold the gun at any angle or any height to suit the customer. I have a notion my own design will suit a lot of shooters, but those who want the gun tipped back or hung lower can have anything they wish, as these outfits are made to order.



The FolkMount

For several months, we have been checking out a new and very streamlined, fully adjustable mount designed by Folke Dahlberg of the Folke Gunsight Co., 2073 E. Pender St., Vancouver, B. C., Canada. The mount has a fixed front base, attached to the receiver with the usual two screws in holes furnished by the makers. The rear base is attached to one of the bridge holes and incorporates the elevation adjustments on a differential-pitch screw. Windage adjustments

are at the front of the sleeve, which completely covers most of the scope barrel. This aluminum alloy shield makes this the most streamlined mount we have seen. Adjustments are positive and stay locked, but we believe the elevation screw would have been much simpler with a plain 40-pitch screw instead of the differential type. The price of this new streamlined mount for one inch non adjustable scopes is \$29.50.

Dave Bushnell's 4X Scopechief makes an excellent glass for this mount, on most high power rifles.

S & W .22 Magnum on Cougar

While I was attending the Winchester-Western Seminar at St. Louis and later the N.S.G.A. Show at Chicago, I loaned Jack Nancolas my K Model 6" barrel Smith & Wesson for the .22 W.R.F. Magnum cartridge, to see how it would perform on cougar. He is an excellent pistol and rifle shot, a government hunter, and one of the best mountain men alive. His dogs treed a big bob cat and Jack shot him between the eyes, the slug going back through the skull and penetrating to just under the skin between the shoulders, perfectly mushroomed and with considerable loss of weight; an instant kill of course, and excellent penetration.

Next, his dogs stopped a big old tom cougar. In the melee that followed, the big cat got Jack's best lion dog down and was working him over when Jack started pouring the tiny soft-point slugs into the cat to save his dog. The bullets were going through the head and back into the body. The one that killed the big lion hit just over the

(Continued on page 65)

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CROSSFIRE

Messages To Keith

There is no doubt in our minds that Elmer Keith's .44 Magnum pistol shot that killed a deer at 600 yards was a good one. But we know of a pistol shot that topped that one.

Our story concerns our friend, Mr. —, from Pennsylvania, who killed a deer at 150 yds. with a .44 Mag. The amazing part of his story is not the pistol he used, nor the range ... but the fact that he is a double amputee with no hands.

Howard Camp
Newnan, Georgia

We cannot help but feel that we have come up with the answer to the birth control controversy and the crowded world conditions we face today. All we have to do is arm the populace with sidearms, and have the Old Master Elmer Keith himself teach the art of Combat Quick Draw.

Bill Hartley
Newnan, Georgia

Certain evidence in addition to the identical address suggests that both these postal-card comments came from the same writer. However, one of them was addressed "To The Best Darn Gun Magazine In The World"—and we can't resist flattery.—Editor.

Warning

This is to inform you that the antigun cranks are at it again in Georgia and that they will attempt to strip the people of their Constitutional rights at this session of the legislature. Please alert all your readers and ask them to write to Governor Vandiver and the members of the State Legislature, protesting gun registration laws, laws requiring permits to carry guns, and laws against carrying concealed weapons.

Wallace H. C. Colly Jr.
Atlanta, Georgia

Cars Next?

Five or six years ago, you could go into any drug store and buy what was called a "Horror Comic." Then somebody said that they caused juvenile delinquency, so now you can't buy them anymore. We also used to be able to buy switch blade knives—somebody said they caused juvenile delinquency—you can't buy them anymore. (Personally, I found mine very handy for opening grain bags when I had both hands full.) Now

some crack-pot by the name of Gallup says that firearms cause juvenile delinquency. Well, they took all these other things away; now they are trying to take our guns. One thing I can't figure out. Why do we still have juvenile delinquency?

At this stage of the game, I hope somebody doesn't say anything about cars. I live 16 miles from where I work and it would sure be a long walk.

John H. Linney
Churchville, N. Y.

Hubert Humphrey

I was pleased to see Senator Hubert Humphrey's statement in your "Know Your Lawmakers" department. I would like to know what other presidential candidates have to say about the subject of firearms control. It is vitally important that we know where any candidate for any public office stands on this subject, and especially a candidate for the Presidency. We must exercise constant vigilance.

David H. Rosen
Glen Oaks, N. Y.

Lyndon B. Johnson

Recently, several of my friends and I, numbering close to 40, sent a letter to Lyndon B. Johnson, our Texas Senator, Democratic party leader in Washington. We requested that he fight any law which might already be in effect or might be proposed that might tend to take away our rights to own and shoot our guns.

I received his reply yesterday. He assures us that he will carefully consider any such legislation in the light of views and those voiced to him by many other Texans.

I sincerely urge everyone who loves guns and shooting to write to their lawmakers—now!

Keith Newman
Fl. Worth, Texas

Senator John F. Kennedy writes

(GUNS, April): "By calling attention to 'a well regulated militia,' the 'security' of the nation, and the right of each citizen 'to keep and bear arms,' our founding fathers recognized the essentially civilian nature of our economy. Although it is extremely unlikely that the fears of governmental tyranny which gave rise to the Second Amendment will ever be a major danger to our nation, the Amendment still remains an important declaration

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of our basic civilian-military relationships, in which every citizen must be ready to participate in the defense of his country. For that reason I believe the Second Amendment will always be important."

Senator Stuart Symington replied through his Administrative Assistant, Stanley R. Fiske, that "He has a very heavy out-of-town speaking schedule on week ends, and this, in addition to his regular work of the Senate, just does not allow him enough time to comply with your request and many similar ones he receives."

Watch Your Fingers!

I think the fellow on page 29 (Feb. issue) is about to give his gun hand a good pinching by loading his magazine while in the gun. All the Lagers I've seen ram the slide forward when the magazine follower is depressed, and it goes forward fast.

You fellows have a real nice magazine and I'd like to see it stay that way so...let's have more on the military and the gun collecting angles. If you do...I think you can hold your title, "Finest in the Firearms Field."

You've printed a lot of letters requesting more on "the rifleman in civil defense" and I'm sure the readers would like to know if more on this subject will be in future issues.

Frank H. Miller

Grand Rapids, Michigan

We'll give this man what he wants, if all those who wrote in concerning their own participation in the volunteer "Rifleman" movement will again write to us. We'd like to learn the state of the rifleman in Civil Defense concept and activity to date, since GUNS first published its revealing article. Please address to Bill Edwards, Technical Editor, GUNS Magazine, Skokie, Ill. As for Lager slide closing, the slide stop holds the bolt open until the toggle is jerked a second time, releasing slide stop and allowing toggle to snap forward.—Editors.

No Such Thing?

The term "energy" has been overworked in regard to the so-called killing power of the big game rifle. Usually, the author uses the word in reference to the amount of "energy" required to knock down a large game animal, and goes to great lengths to extol the number of foot pounds his rifle bullet transfers to the beast he has killed.

There is one small flaw in this theory of energy transfer, and that is there isn't any such thing or anything remotely like it. The theory that a bullet from a rifle designed to be fired from the shoulder can physically knock over man or beast is completely erroneous. The belief that a bullet from a .470 caliber rifle is more effective than a 160 grain 6.5mm projectile is completely without foundation. The hunter who says his .338 Magnum delivers a greater wallop than the .303 British is either ignorant or so filled with prejudice that he is incapable of making a logical deduction in the light of commonly known physical laws.

Newton's third law of motion states that

"for every action there is an equal and opposite reaction." This means that the punch your bullet delivers to the game is no greater than the recoil you get from the butt of your rifle. Actually, the impulse transmitted to the game is far less, because the bullet has lost velocity and momentum. Also, the bullet penetrates in a manner much less abrupt than the sharp jab of the rifle stock against the shoulder. Does this mean that you should try and kill an elephant with your .303 Winchester? It sure does. Hold for the same spot you would aim at with that .470 double-barreled cannon, and Mr. Pachyderm will fall like lightning. Just remember to use a solid bullet around four or five diameters in length. (You probably won't even recover the bullet because most likely it will pass clean through friend elephant.)

Do you think I'm suggesting that every hunter of dangerous game commit suicide? Or maybe you think a guy might get away with it once or twice only. Well, it has been done—over a thousand times by one man. W. D. M. Bell killed over eleven hundred elephants with nothing more than a 7mm Rigby Mauser or 6.5 Mannlicher and perhaps, occasionally, the .303 British and .318 Rigby. He always used a solid bullet, usually the round nosed military load common to the early nineteen hundreds, and held for the brain. He found there was no such thing as bullet impact, just penetration, and that the small bores killed just as dead as the heavy cannons without all the accompanying disadvantages.

The point I'm trying to make is that hunters should cut the malarky and print only what they know to be true when it comes to killing power.

R. de Boer

Grand Rapids, Michigan

Don't all speak at once. We'll publish one answer.—Editors.

Wild Pig.

In answer to a letter inquiring about wild boars (Feb., 1960, issue) around Monterey, California, the existence of these pigs is confirmed by the booklet Big Game of California which is published by the California Department of Fish and Game. These are European wild pigs that were released in California late in 1925 or early in 1926. These pigs may run to 600 pounds, but a 300 pound boar and a 200 pound sow are large in California.

The book states, "Because of the common occurrence of feral pigs (domestics in the wild) in the foothills of the State, and because the European wild pig interbreeds with domestic pigs, it is probably that much of this stock is of mixed blood."

I don't know if the European wild pigs are eaten or not, but I do know, since I've eaten some, that the domestic pigs in the wild that are common around Santa Barbara are eaten by many.

Tim Anderson
Santa Barbara, Calif.



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HANDLOADING BENCH

By KENT BELLAH



MOUNTAINS OF SHOTSHELLS are now salvaged by hull fillers, who bust more caps and have more fun at less cost than ever before. Cost is a major motive: you can reload for around \$1 per box. That's a real bargain, these days! And many scattergun fans get as much kick out of brewing their own fodder as in shooting it, with no pun intended.

In the mid 1930's I clobbered up fodder with crummy tools. My Eureka set was worth no more than the \$2.50 it cost. Loading was slowly done "by guess and by gosh." Some swollen shells wouldn't chamber even in a loose-chambered double gun. Factory 12 gauge loads cost from 70c to \$1.10 per box. By careful testing I learned the factory Hi-V loads could be exceeded, to gain a few yards range. This is not true today. Standard Magnum fodder is pregnant with powder, loaded to full max, or maybe more for routine shooting.

Semi-production loaders are now plentiful as fleas on a dog. Some early ones got out with a few "bugs" in the rush to hit a new mass market, created mostly by novice handloaders. A few fell by the wayside because of

of operation, you can thrash out loads at a rapid rate.

The DL-100 comes set up for the gauge, load, shells and primers or caps you desire. A novice can use it the day it arrives. I like the fixed charge powder-shot bar. You can't install it backwards or goof-up. Each bar is for a definite charge, with extra bars \$3.50. Lads who know what they are doing can ream the charge holes, or bush them, to fill their needs for different charges if desired. Altered bars should always be stamped for positive identification. At extra cost, it's easy to change to a different gauge, or from primers to caps.

The DL-100 loader is a good value. I paid for it, and have now passed it on to a friend nearby who helps me a little with loading and shooting. Like others of the same general pattern using a charge bar, only the one correct powder may be used. Substitution of a powder with different burning and pressure trends is an idiot trick that has blown up three guns in this area. Three words—Don't Do It. Stick with what the book says and you'll be safe. Factories spend a million bucks keeping the right



Five steps in shotshell reloading demonstrate easy working of more modern tools. At left, deprime over hole in plate; next, prime; then throw powder, insert wads, shot; size and crimp; eject loaded shell.

sloppy workmanship, or because they were not perfected or developed. One good loader wasn't advertised much.

All currently advertised semi-production loaders I've tried do a good job. The main difference is in speed, convenience and price. They are practically foolproof. The main thing is to use the proper powder and follow simple directions.

The Deitemeyer DL-100 Loader is such a machine. It's complete, speedy, safe and good. Simplicity and production considered, the \$49.95 price tag makes it an excellent buy for hunters or clay shooters who want to bust more caps at lower cost. They advertise a reload in 20 seconds. You can do it, but not for continuous production. It takes time to sort tubes, open powder and shot, wads and primers, and keep the hoppers filled. It also takes time to inspect and box loads. But it's fun. When you get the "hang"

powder in the right places to load the right shells. Who are you to be different?

My machine has a No. 12-B charge bar, equal to factory "3 Drams Equivalent, 1 1/2 oz." loads. It throws 23 grains of Red Dot, and approximately 1 1/2 ounce of shot. This is a dandy quail or clay load, with near top velocity for Red Dot, about 1175 feet per second. The same weight charge of Unique gives about 1200 f.p.s., but can not be substituted in a charge bar. The charge would be about 31 grains, an excessive load. Again I say it, *Do not substitute powders.* If you do not have the correct charge bar, weigh or measure all charges. This is the only time you need a measure or scales with this loader.

If the charge bar goes up, clean it and the housing with a dry cloth. Clean and dry the charge holes. Reassemble with a bit of graphite for lube. This area is always kept dry. Keep other moving parts lightly oiled.

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I loaded some once-fired Xpert hulls for a test. The 23 grains Red Dot and 1 3/4 ounce meter of No. 8 shot (which weighs slightly more than larger shot) made a neat reload. The Alcan wads were one .200" nitro card, and one 1/2" filler wad. Wad pressure was 75 pounds. Loads compared favorably with equivalent factory fodder in both pattern and penetration at 40 yards. They function in pumps or autos. Primers were the dependable CCI make that I've preferred for several years. The chilled shot were DIVCO brand, made by Division Lead Co., Summit, Illinois. They supply dealers with high grade lead products of all kinds for handloaders. Alcan wads are too good and too cheap to fool with cutting your own for small production. The old hammer & punch cutters often cut wads at an angle, which isn't good.

All components were of fine quality and well mated, factors as important as proper loading technique with good tools.

Listed loads in the directions equal equivalent factory fodder, that you can use for a control check, and I recommend them. Shotshell loads are not as versatile as rifle and pistol ammo. You can't increase velocity to gain range, as with some metallics. You are not apt to improve factory or suggested loads with your own creations today, as you could a few years ago. Overloads have long been tried without much success. A good writer and fine lad wrote a story on "Dead Ducks at 100 Yards," that was real interesting. He shot ducks (in the story) at nearly twice the range you and I will consider it sporting. I do not know of any gun, load or man that will consistently kill ducks at anywhere near that range.

The DL-100 works much like other loaders of this type. The five steps with 21 operations per shell include final inspection, but not sorting tubes or boxing loads. For new cases you'll need a Crimp Starter Die and Bracket at \$5.00. The five simple steps are: 1) Deprime, 2) Reprime, 3) Throw powder, insert wads, apply wad pressure, throw shot, 4) Size and crimp, 5) Eject load from the size die. I highly recommend a sixth operation, using the Taper-Loc Die (\$4.00 extra). It makes a tighter crimp and tapered nose for better feeding in pump and auto guns.

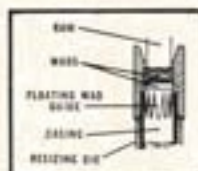
A \$6.50 Cap Converter Set allows repriming the old battery cup primer with cheap caps, at considerable saving. CCI started cap production several years ago to relieve the primer shortage. A few lads had misfires before good tools were made to use them. Cocked anvils were the major cause. The Cap Set does an excellent job, and caps are well accepted today, although loading is a bit slower. I've used caps since they were first available, with never a misfire.

The built-in wad guide is a good feature. All operations terminate with a dead stop with a full stroke of the handle. This, and the charge bar for fixed charges practically eliminate the human error. The wad pressure control is good. Correct wad pressure, as listed for various powders, makes quality ammo, eliminating "low loads," erratic or blown patterns. You can not eliminate the over-powder (or nitro) wad, nor reduce the suggested wad column to increase case capacity for improved ballistics. That is, some loads list a minimum length wad column, and results will be best with this length or more. Shotshell loads are pretty well standardized for listed components.

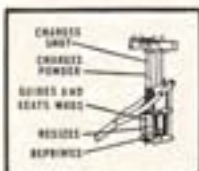
(Continued on page 61)



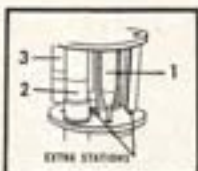
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1309 Olympic Blvd., Montebello 5, California



BY DICK MILLER

NEWLETTERS are good gimmicks for gun clubs.

Every club has at least one member who can get out a chatty, informative, monthly newsletter. The newsletter or bulletin need not be a masterpiece of prose, or a work of art. It can be done by mimeograph or any other duplicating process, and mailed third class, to keep down costs. Its purpose—to inform members of coming events, give recognition for good shooting performances (everyone likes to see his or her name in print), and give the club an identity or esprit de corps which it would not otherwise enjoy.

The newsletter should list new members either by a simple listing or with a biographical sketch, to promote better fellowship at the club. When a new member appears at many clubs, there are murmurs of "who's that." A good club bulletin can answer the "who's that" queries in advance, so that the new member can be absorbed and become an effective member more quickly.

In last month's PULL column, we mentioned and saluted the new Micro Gun Club, at Las Cruces, New Mexico, for the club's bulletin. To give other clubs an idea how a good bulletin might be put together, I quote parts of another Micro Trap Range Monthly Newsletter:

It begins: "Hi shooter!

February set a new attendance record at the range in spite of the faithful gusty breezes that never fail to blow Sunday afternoon. A lot of new shooters out, and much interest in coming registered shoots, now that schedules have been approved. I will cover these later in the letter. . . .

True to their promise, Mr. Trapshooting himself, ARNOLD RIEGER, and his charming wife stopped by early in the month on their way to the Florida Winter Chain Shoots. . . .

On February 7th, DUBWARD and Mrs. LINK came up from El Paso to shoot with us. From the North, WALTER BERGER, LES BRIGGS and BOB TINKEN stopped by for a few rounds on their way from Albuquerque to somewhere in Mexico where the ducks are thick. They were careful to keep the location a secret. JOHN VAN NOY celebrated his birthday by shooting a 49x50 but never told us how old he is.

On February 14th, Mr. and Mrs. E. C. "BUD" AXLINE and BRUCE AXLINE came down to shoot. Bud, who is president of the Albuquerque Trap Club, helped us set up our schedule for registered shoots during March and April. He was quite impressed by the attendance and enthusiasm, and went back to Albuquerque to warn the fellows that they had better get busy or start shipping all their trophies south!

Valentines Day we shot the "annual me-

morial St. Valentines Olympic Handicap" event, which was won by ROLLA BOUGHAN. . . . JOHN MATHIS celebrated the day by shooting a 24x25, and NILE BAKER came up with a 40x50 on doubles. . . .

JOHN BRIANT from Alamogordo is breaking ground for a new trap range at Holloman Air Force Base. Real glad to see this, as it should generate lots of interest (Editor's note: the newsletter can help generate competitive interest between clubs, and help toward getting leagues organized). We will have some new competition from over the hill. We are working closely with John and will help all we can. Will announce the opening so as many of us as possible from here can go over and give the club a bang-up sendoff.

Lots of new shooters got started. Dr. BEN HAINES came out with old pro FRANK PAFEN. JACK FERDIE is coaching his boy VINCE. DON LAW has his wife and son BARRY practicing regularly. The TURRET INES are represented by one or more members of the family every Sunday. Also most encouraging is the turnout among the ladies. MRS. WALLY CARROLL, MRS. CODY, MARY VAN NOY, BETTY WILLIAMS, and several others are getting active. Stick with it, gals, the wind can't blow forever! And remember, this is a "discreet" range. Your score as well as your age is kept confidential. . . .

Among the regulars we have seen lots of BOB AMMONS, GENE GRAHAM, BILL SCHWARTING, SKIP CHAUVIN, and BOBB BUTTS. HENRY CICERO, DENNIS and BILL HOLDEN, R. W. VAN NOY, HUGH NEWMAN, and CHALMER ALFREY rarely miss a Sunday. . . .

The Micro Trap Range Newsletter contains many names, much information, and has all the ingredients for keeping a club live!

We salute this month another shooting club's newsletter. This one is from the Fall Creek Valley Conservation Club, at Markleville, Indiana. The Fall Creek Valley newsletter announces a record hop, a chicken barbecue, and a regular business meeting. The results column reads:

"Twas a miserable day but nevertheless five squads of eager target busters braved knee-deep snow for this one. Earl Reed and Lawrence Tolley finished in a dead heat to share first place honors with 70 broken targets to their credit. Tom Mann and Slim Mathers held down the number two slot with 68 each. For third place it was Jesse Butler, Charlie Koehler, Bob Addison and Bob Foust each with a score of 67. With 66's for fourth it was Earl Howard and Owen Cross. Harold Bender latched on to miss-and-out money with 15 straight hits."

(Continued on page 63)

BAUSCH & LOMB'S

Balvar 8



hunt all game with ONE SCOPE

It's a proud moment when you first see your own Balvar 8 on your favorite rifle...the most wanted hunting sight anywhere around the world, the incomparable scope giving you instantly and continuously variable power from $2\frac{1}{2}x$ to $8x$.

The unique Balvar 8 tapered cross hair reticle has no apparent change in size as you change power. Focus, eye distance and point of impact also stay constant throughout the entire power range.

Varmint or big game, you've never hunted with such a superb scope before. Aim through this scope at your dealer's. See why Balvar 8 features make this the ultimate in telescopic sighting. See why you'll thrill year after year when you say, "I own a Balvar 8 by Bausch & Lomb."

Write for information or send 25¢ for 96-page manual, "Facts About Telescopic Sights." Bausch & Lomb Optical Co., Rochester 2, N.Y.

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*"Extending man's vision
through optical science."*





"If It's In Range- If You Can See It- YOU CAN HIT IT"

LUCKY McDANIEL TEACHES INSTINCT SHOOTING THAT MAY BE FIRST NEW WAY TO HIT SINCE DAYS OF MUSKET

By BOB WITT
Nashville Banner

SEEING, THEY SAY, is believing. And when I saw the unbelievable, saw Lucky McDaniel teach tyros to become proficient shooters within one hour, I had to believe.


McDaniel's copyrighted system is "Instinct Shooting," a method which thousands of his students, men and women, will swear by. Everywhere, shooters testify to new enjoyment of their scatterguns, new success a-field, and higher scores at trap and skeet. For Instinct Shooting, mechanically, is as simple as pointing your finger. The results, however, stagger the imagination.

For example, how long do you think it would take you to learn to knock a paper wadding from the center of a flying one-inch washer with a BB gun? At least long enough for your arms to become numb from trying, most likely.

As an instinct shooter, though, you would probably be separating the paper from the washer in 15 to 20 minutes. McDaniel's younger pupils with good vision, who think that isn't enough, are usually shooting tossed BBs with a BB gun after no more than half an hour with Lucky. Incredible? It sure is . . . to everybody but Lucky McDaniel.

Lucky starts pupils off with a BB gun mainly because they can quickly develop the habit of seeing the shot as it leaves the barrel. There is no disturbing noise or recoil with the BB rifle.

As soon as you can see the flight of your BB, the next step is to learn the proper gun position for Instinct Shooting. Rather than have you employ the conventional cheeking of the gun, Lucky insists that you lock it firmly in place with the side of your chin against the stock. About now, you may notice that there are no sights on the gun.



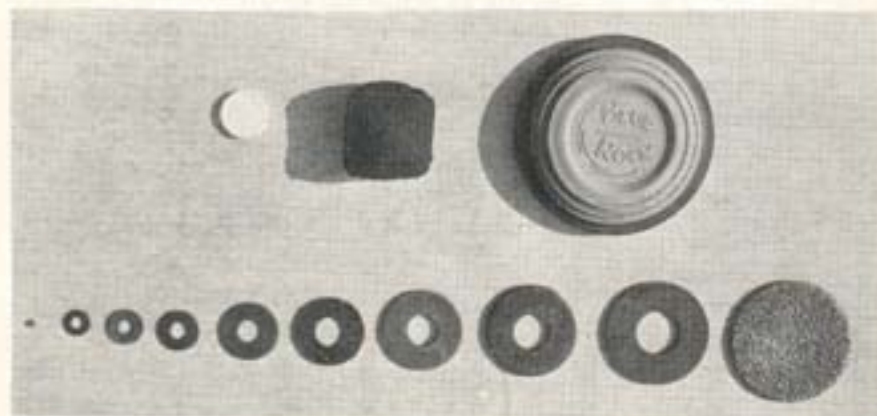
Proof: you see paper wad knocked from washer by impact of BB in Instinct Shooting test.



McDaniel and promotor Mike Jennings examine special Daisy sightless air-rifle of Instinct Shooting kit.



"Most patient coaching ever" was opinion of expert about Lucky's teaching methods. Kids learn fast, have few bad habits of "sighting" to unlearn.



Targets ranging from clay birds down to BBs are hit as student improves skill. McDaniel's teaching denies aiming. Head is high, gun is not so tightly cheeked as with regular aiming method: eyes watch the target.





Originator of Instinct Shooting was once tobacco salesman, outshot dealers on bets in order to overcome their sales resistance.



Air rifle begins new gun skill, and use even by kids will help shooting with all arms. At left, experimental BB gun Lucky made before arranging to use Daisy rifles in kit. System of aimless hitting, Army researchers hope, may offer new way to use rifle in combat.

Lucky brushes this off by simply stating that "they'd be in your way."

Now that you can see most of your shots and know how to position your gun for Instinct Shooting, you are ready to begin with the moving target.

Your first target is a solid metal disc about two inches in diameter which Lucky, crouched near your shoulder, tosses into the air about 10 to 15 feet high.

Most people will miss the first few and, all the while, Lucky will be quietly demanding, "Look at the top, look at the top of the target. Keep both eyes open."

"Most everyone," he says, "shoots under an aerial target because the gun is lower than the eye. I offset this by telling my pupils that if they're gonna miss, then miss over the top."

Remember, while you are shooting at this disc, you are not aiming, because there are no sights on the barrel. You actually have the gun chinned so that all you can do is look out over the barrel, not along it.

Your first surprise comes when, after a few misses, you suddenly hear the sharp little ping that signals a hit. "Now, we're in business," Lucky usually quips with a reassuring smile.

After the disc comes a metal washer, about 1½" diameter. Soon, hitting this, your confidence soars to new heights.

Here is where McDaniel slips you a fast one. He pauses briefly, pulls a piece of paper from his pocket and stuffs it into the center of the washer.

"Now look at the paper and hit it," he says, usually repeating those words as he tosses the washer skyward. Before you know it, you've scored again—another milestone with Instinct Shooting.

Gradually, the size of the washer is reduced until you are down to one about (Continued on page 40)



HE RODE WITH WYATT

PICTURE OF AMERICA'S
PAST IS CAPTURED
BY PAINTINGS OF WESTERN
MEN AND UNIQUE
TAPED INTERVIEW

By LEA McCARTY



"McCarty painted Wyatt Earp (above) as I knew him," says ex-Earp deputy. (Below) Hugh O'Brian as he portrays Earp on TV.



Hollywood gun-teacher Arvo Ojala (left), King, and artist McCarty (right) argue guns and gunfighting.



A DEPUTY OF WYATT EARP'S recently made a unique recording. Arthur M. King (who had worked with Wyatt for L.A. Chief Detective Flammer about 1900) taped his memories of the famous lawman for western artist Lea F. McCarty. King, now retired in Santa Rosa, Cal., recalled extraditing culprits from across the border at San Diego; told of working for the borax people out on the high Mojave Desert "at a time when we had to get out and push the old Franklin over the famous Sawgus Grade." Artist McCarty's search for traces of vanished heroes of the Old West had led him to interview King. His striking paintings of westerners capture the dash and fire of these men as they lived. Regrettably, we here record the passing of McCarty, who died in March. His interview brings us the words he spoke with King. . .



Standing in front of another Earp portrait and one of Doc Holiday, McCarty and King listen to cameraman's question.

"TELL ME, MR. KING, how long did the shoot-out era last?"

"About twenty years."

"And how many of the old West gunfighters did you know?"

"I worked with Wyatt and did know Bat Masterson. I'd



heard much about many of the gunslingers through my friend Wyatt, although he was not a big talker. But when we were alone, under the stars, and a big fire blazing on a cold night in those altitudes, Wyatt talked some."

"Did he ever mention such a famed outlaw gunfighter as Jesse James? I understand that Wyatt was born about the same time, in 1843."

"I don't really recollect. Wyatt hated men who broke the law, though, as his Pa had brought him up in a family of lawyers and judges of proud Scots descent. Yes, I do remember that he once said that Jesse James had been a poor shot due to his eyes and impetuosity; that he wore a Navy Colt of the cap-and-ball variety like his big cousin Cole Younger. Wyatt also laughed, and told me that Jesse was the cousin not only of those who rode with him, the Youngers, but also the Daltons who raised Hell around Southern California about that time, robbing the Southern Pacific; and that even gunfighter Johnny Ringo was related to Jesse.



Deputy King displays .45 Colt Single Action he carried as Earp's deputy, says Earp once tried to borrow the gun. "I refused to lend it," says King, "and we had a falling out."



King says Earp believed "nobody could match Doc when he whipped out that nickel-plated .45 Colt."



Painting shows Clay Allison a-horseback, but he died under the wheels of a wagon.

Quite a bloodline!"

"Was Earp a big man—tall, I mean?"

"No. He was under six feet and weighed about 160 pounds—all bobcat and fightin' man."

"Did he ever mention Luke Short to you—the famous gunslinger who once owned the Long Branch Saloon at Dodge in 1883 I believe?"

King coughed and smiled, "Gettin' old I guess. Yes, Wyatt talked about 'Little Luke' on some occasions. He liked Luke, to hear him talk. He respected his courage as a gunhand and his wits as a gambling man. He told me Little Luke was a fast-draw artist with his .45 Colts, but an amazing shot with a Springfield which he had learned to shoot like sin out behind the barn on his father's farm in Texas where he was reared. Little Luke shot to death gunfightin' man Long-haired Jim Courtright in Fort Worth near the 'White Elephant' which he owned. Wyatt told me that Luke cut off the hammer thumb, then broke the man's bones in his legs so that he sank to his knees, and then drilled him vitally through the heart. They had walked into the middle of the wide street and settled it as all gunfighters did—honorable-like. Both wore .45s high on the hip. Luke never wore a shoulder holster and did not like them. He lived to die a natural death in bed at 39 years of age."

"Did Wyatt ever mention Wild Bill Hickok?"

"Yes, he certainly did on many occasions. Most folks just don't seem to realize that Wyatt hunted buffalo along with, not only Bill Tilghman and Bat Masterson, but also with Wild Bill Hickok. Wild Bill taught Wyatt the art of using a hand gun against a fast-draw killer. (Continued on page 44)



McCarty painted John Ringo twice, seemed to see in him conflicting personalities. Above is Ringo the gambler.

New Target Helps

By DICK SIMMONS
Sheriff, Montesano, Wash.


DDOUBLE ACTION HANDGUN SHOOTING is the most important pistol firing system in use today. The policeman stopping a criminal on the "get away," or the peaceful citizen preventing a crime by effectively resisting assault, needs skill in this combat technique. And as the problems of such skill become evident, practice at DA firing becomes a sport, taxing nerve and control of even experienced slow-fire pistol men. The bullseye will show up inaccuracy. But to analyze poor shooting, a novel cross-style target can reveal trigger jerking and other causes of inaccuracy; can allow the shooter, even without coaching, to perfect his skill.

Best targets for double action practice are painted boards. If painted white in the center and light green on the sides, the bullet holes will immediately indicate if sights are being pulled sideways during the pull of the trigger. DA pull may be from 10 to 17 pounds in modern service revolvers. Though not a heavy pull, it does seem heavy by contrast with the 3-4 pound single pull. It is this sideways pull that will cause more misses, in DA shooting, than are caused by errors in elevation, whether sighting or point-shooting.

Practice raising or lowering the pistol with the sights trained on the center stripe. Learn to keep all shots in the center stripe at close range. Then move the board back five yards and practice more. Keep practicing until you know how to squeeze the shot off correctly. If the sights drift off target, hold the pressure and when the sights are aligned again, continue the squeeze to fire. Repeat, even if your aim wavers off target three or four times, before you finally snap the shot. Soon you will be able to double action very fast, and very surely, even when not looking at the sights.

The "hold" of the gun, the styles of grips used and the trigger squeeze are all different from target single action shooting. For accurate control DA, the fingers should grip hard. The thumb also grips, the end of the thumb resting down on the middle finger. The strong grasp is necessary to keep the pistol from twitching sideways and to keep the same "hold" on the grips during recoil of five or six shots.

Custom grips can be an aid to DA shooting. One design by the late Walter Roper, pioneer pistol scientist, had a built-in trigger stop for DA work. Part of the stock extended into the guard. A shooter with long fingers caught the trigger in the first joint crease. As the trigger is pulled back the tip of finger comes in contact with the stock wood surrounding the back of the trigger guard, forming a brake or stop. (Continued on page 65)



Gun hand held tightly beside hip gives you firm control of rapid double action firing.

DA GUNNERS

CROSS TARGET PLUS SOLID HOLD ON PISTOL

WILL HELP YOU TO LEARN ACCURATE
DOUBLE ACTION COMBAT SHOOTING



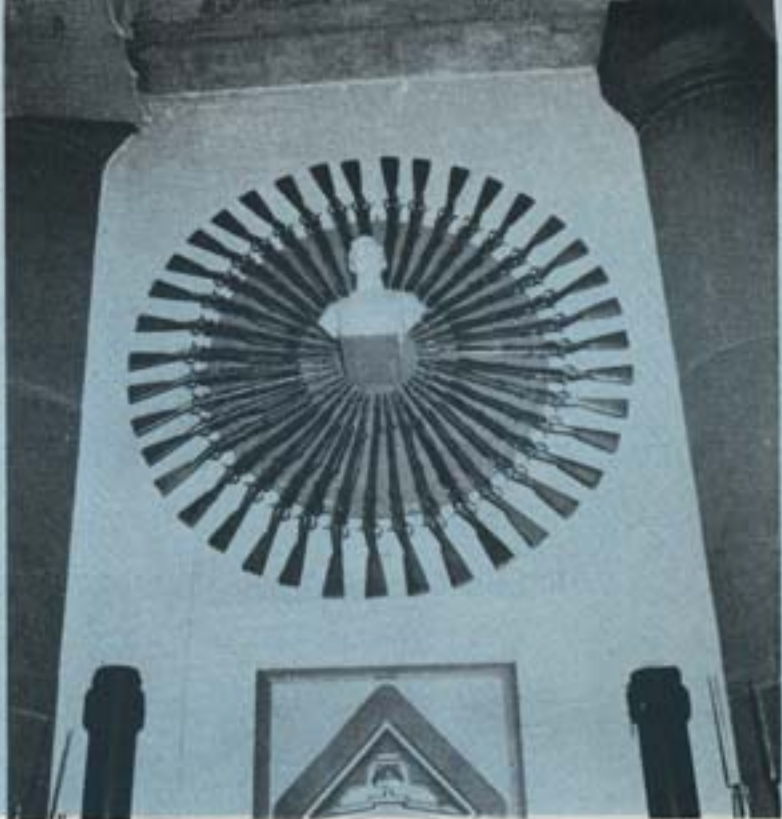
Author's pistols have new grips by Hultgren, to give firm double-action hold.



Novel cross painted target board guides eye and aim to develop skill in quick triggering; is better than bull.

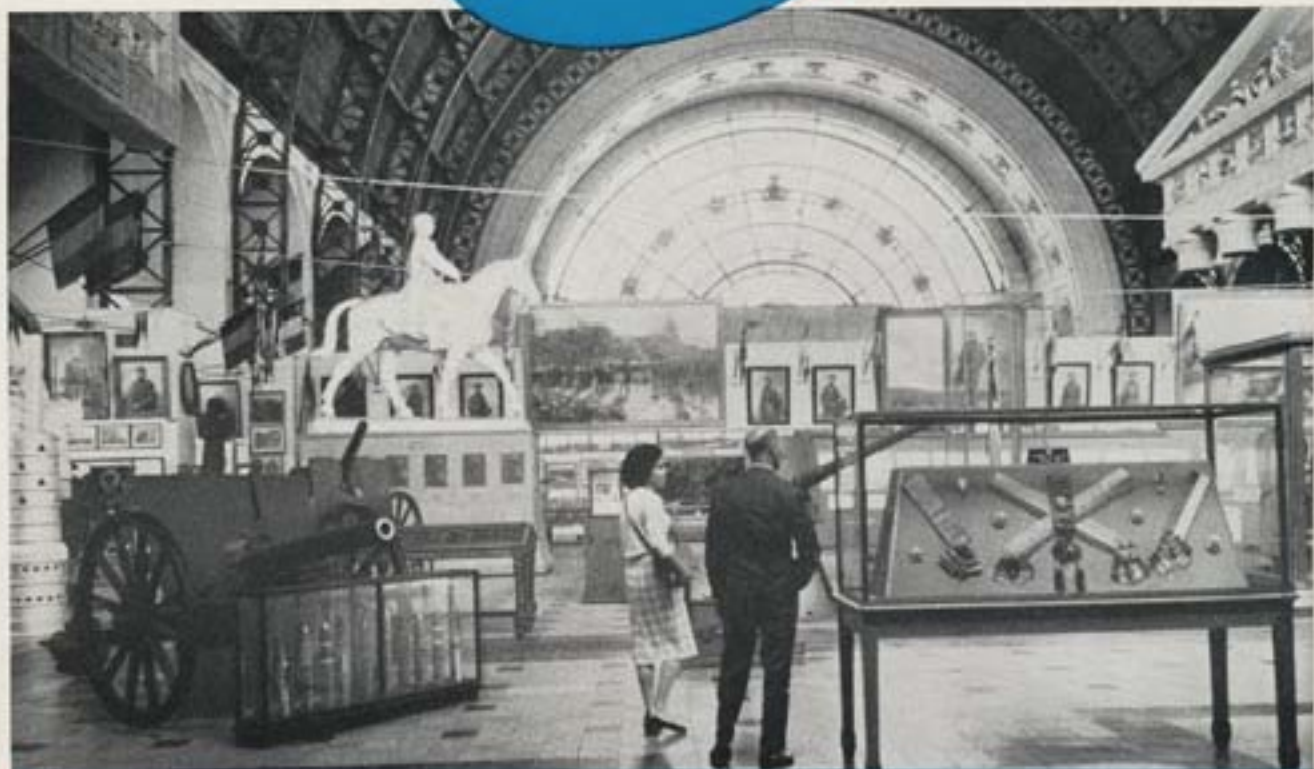


Chasseurs rifles garnish the walls like candles on cake. Below, Napoleon 6pdr. gun dominates room of Waterloo battle period.

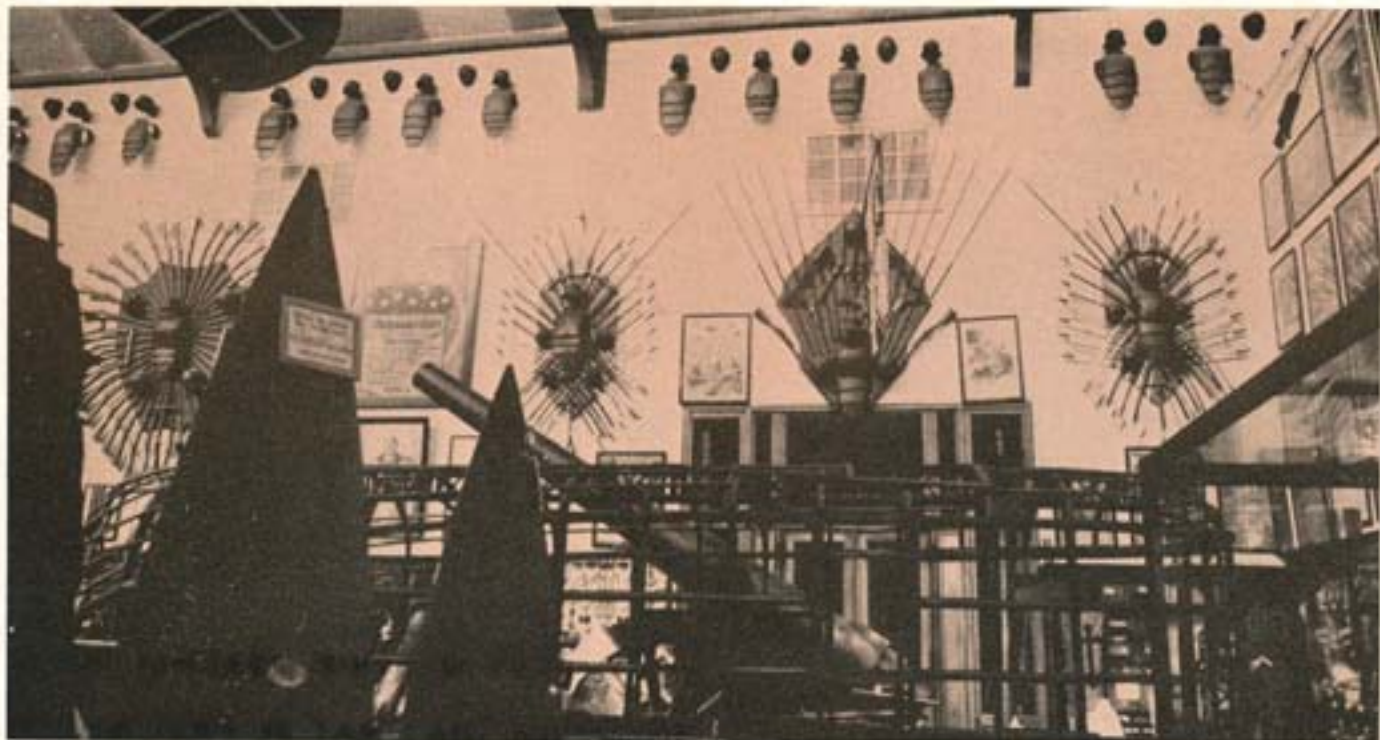


Belgium's

WORLD'S



Mrs. Kit Flannery and guide M. Coessens are dwarfed in vast Hall of King Albert. Nine galleries hold military relics of many nations. Museum is lifework of Louis Leconte, who is the director.



Photos By John S. Flannery

Cannon shells mingle with Zeppelin gondola cage in WWI hall. German machine gunner armor, lances, festoon walls. French MG is on AA mount.

BIGGEST GUN MUSEUM

AMERICAN GUN COLLECTORS WERE AMAZED

WHEN VISIT TO WORLD'S BIGGEST ARMS MUSEUM REVEALED

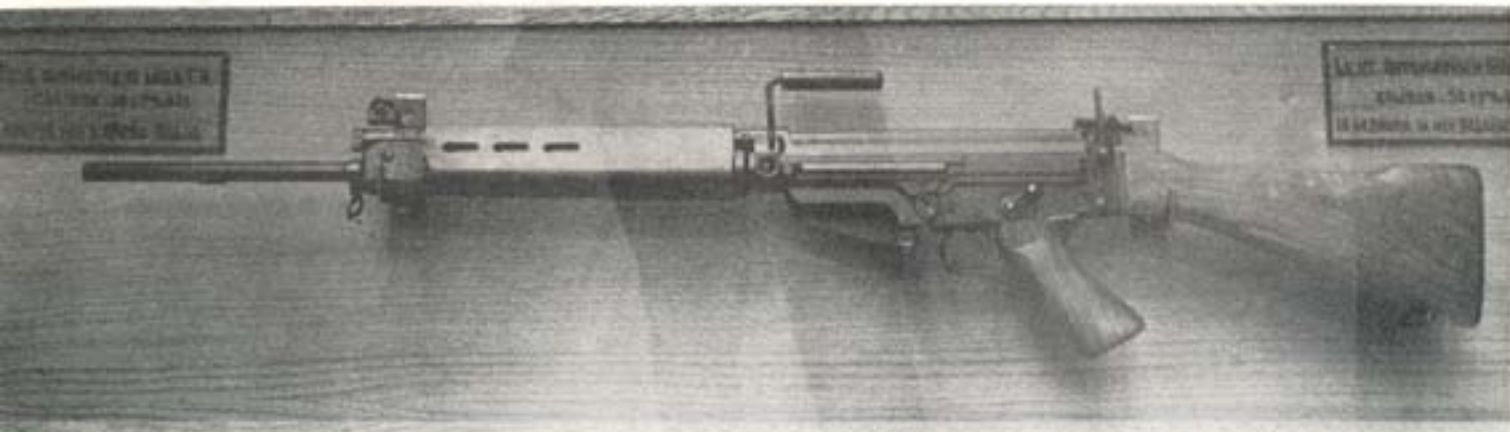
WEAPONS TREASURE HOUSE WAS UNKNOWN

By WILLIAM B. EDWARDS

AS I WALKED INTO the foyer of the museum, I looked in awe at the fantastic array of guns, swords, cannon, uniforms, airplanes displayed in the world's biggest and best military museum, the Belgian Army Museum in Brussels. Housed in the Palais du Cinquantenaire, the palace built to commemorate 50 years of Belgian independence, is the most magnificent collection of weapons in seven countries visited by the "Gun Tour." If West Point's guns, the Colt and Winchester museums, the Smithsonian arms, the Marine Museum at Quantico, Harold's Club and Aberdeen Proving Ground's collections, were all rolled into one, they might equal this huge arms array. And, for the most part, the arms you would see in these mentioned displays *will not be duplicated in this Brussels Museum.*

Superlatives fail in describing this museum. We eight Americans were the only visitors there, though visiting days, except Friday, include Sundays and holidays, 10-12:30 and 1:30-5. But even Belgian tourist guides don't know of this collection. The road to Waterloo routes by the Roman-like building but of the thousands who pass daily, few enter. This is their loss, for there is much to see at leisure. The history of northern Europe is written there in actual arms used to create moments of history now studied on the dry pages of indifferent history books. The burnished weapons blossom like flowers, displayed on the





Huge Brussels Army museum displays weapons of Belgium's armies through centuries. Fusil Automatique Leger is official name for Fabrique Nationale light assault rifle in NATO caliber.

walls. The brilliant gold and silver of bullion-embroidered Hussar uniforms, the dull gleam of bronze guns, dazzle the eye. In this museum the guns make history come alive. Never have I seen so orderly a profusion of weapons, many of them identical rare specimens by the hundreds. The artistically balanced displays keep the eye from being offended, though every square meter of space is crammed with rare guns, uniforms long since rotted to dust elsewhere, and paintings by recent great masters of Europe, depicting the most spirited and accurately detailed battle scenes of military and heroic figures.

The entrance to this "Musée Royal de L'Armée et d'His-

toire Militaire" is flanked by grim Krupp cannon of the 1870 war, and great guns of an earlier period. Inside, cameras are forbidden. After three years of effort, GUNS finally was able to secure permission for our photographer John S. Flannery to picture this archive arsenal. Through the courtesy of Monsieur Louis Leconte, Army Museum Director, every facility was afforded to John Flannery to photograph the great collection. But still there is no catalog in English, no listing of the arms there, no guidebook but this article, for the ever-increasing tide of U.S. gunbug tourists to Belgium. The museum does publish a quarterly journal "abundantly illustrated." Membership in *La Fourragere* museum association costs 75 francs annually, \$1.50, including the quarterly journal.

The weapons are displayed in historical order. First you pass through the "Austrian and French Period" where bronze Napoleon field guns are flanked by tall glass cases containing figures in full uniforms of the period. The walls carry panoplies of swords and muskets of various models, 1717, 1763, 1777, circled like the petals of flowers about lifelike marble busts of battle heroes. And rising, high as the eye can see, to the vaulted (Continued on page 60)



Dazzle-paint Krupps crowd floor. High trunnion style carriage preceded recoil absorbing type.

In quirk of history, museum profited by two German invasions. Nazis took Lebel's, left relics behind.



GUNS GO ELECTRIC

U S FREE PISTOL IS NEW DESIGN WHICH MAY ELECTRIFY 1960 OLYMPICS

MAN AND MACHINE proceed together in assaying the results of any shooting match. Our US shooting stars are as good as any in the world, but certain specialized shooting sports have needed specialized guns not ordinarily used here. Such a sport is the gruelling routine of the International Slow Fire or "Free Pistol" .22 course. And to complement the skill of Yankee pistoleers at the 1960 Olympic ISU shoot, High Standard has built a Free Pistol.

American shooters years ago started international shooting matches. Then we backed out; refused to have any part or branch of competitive shooting. Great names they once were, American names: men like Ira Paine, who was knighted by the King of Portugal for his shooting prowess; men like Walter Winans, who pushed the traditional skill of the American sharp shooter to new heights and probably did as much as any man in forcing the perfection of handguns into target pistols.

Champions like these, were known and respected in the great shooting "salons" of the Continent. If their presence (Continued on page 48)



First Yankee free pistol of modern era has screw at trigger guard to adjust for finger position to fire.

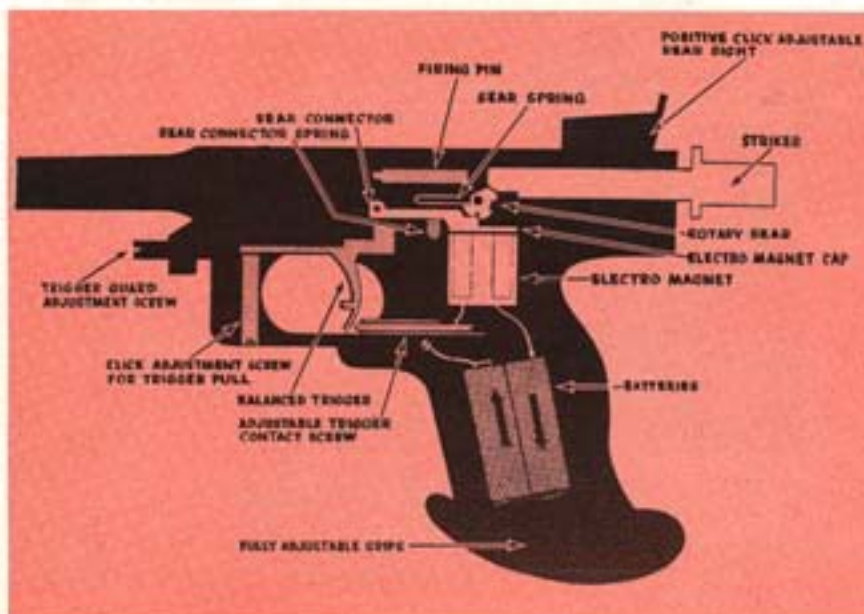


Fluted barrel is accurate and stylish on new pistol.

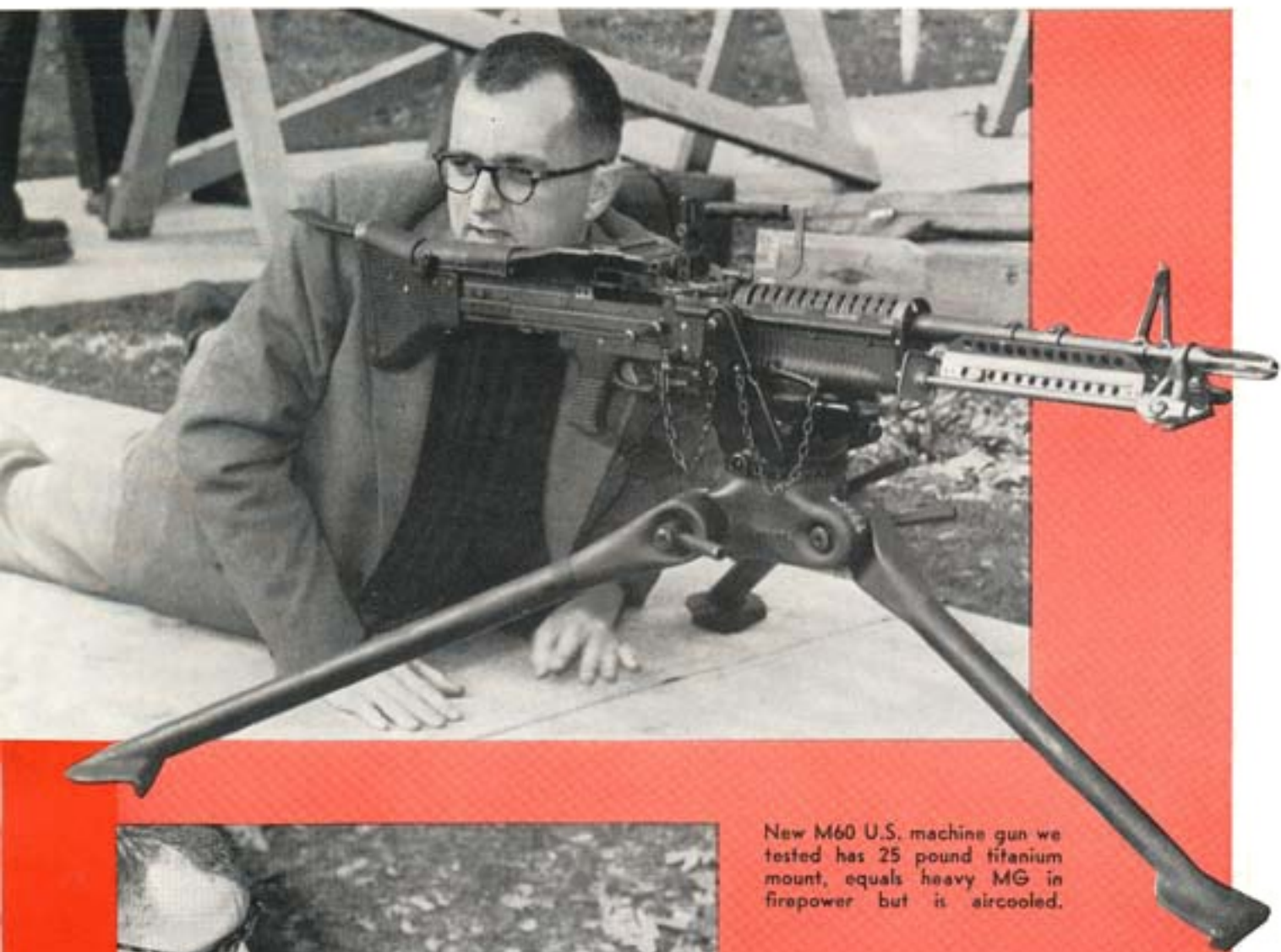
By WILLIAM C. L. THOMPSON



Electric trigger is magnet-operated; releases connector to free rotary sear. Striker under spring compression flies forward to hit pin.



Firepower For Foot-Soldiers



New M60 U.S. machine gun we tested has 25 pound titanium mount, equals heavy MG in firepower but is aircooled.



Flat clip by fingers holds grip pins in; cocking handle is shown with bolt open. At right, by handle, thumb piece lifts up to free barrel for quick removal in cleaning.





Ripping off burst, gun does not jump and accuracy is high from bipod legs.

EXCLUSIVE GUNS TEST REPORT OF AMERICA'S NEW MACHINE GUN

**SHOWS M60 IS STURDY,
CONTROLLABLE ON FULL AUTO,
SERVES MANY ROLES**

By HERBERT J. ERFURTH

WITH THE RETURN this winter of the first General Purpose Machine Gun M60 from its varied test and display career to Fort Benning's museum, a modern saga has come full cycle. It is the project culminating in producing 6800 of what Ordnance calls "the world's best light machine gun."

Dubbed "M60," the new welded and stamped link-belt fed LMG weighs 23 pounds, compared to the (dry) water-cooled M1917 Browning at 40.7 and later "light" versions scaling over 30 pounds each. For fixed firing, M60's tripod of titanium alloy weighs but 25 pounds; the old familiar M1917 tripod hefts at a chunky 43. With M60 gun on mount, the weight is still not so much that a man can't lift it. I took the gun by its carrying handle and lugged it easily about with one hand though it did clip my shins a little. Such mobility might be valuable if all but one man of a crew were dead.

The caliber of the new volley fire arm is of course 7.62 NATO, and the sights introduce novelty in American small arms—the leaf is graduated in meters so our own fire-control charts could be integrated with those of our metric-measuring allies. The tripod of M60, though light, is an elaborate structure. Legs lock individually in any position allowing the gun to settle on hard, uneven terrain, while the gun can pivot a full (Continued on page 54)



Butt removes when you push a defent with bullet; then recoil stop plate is pried up releasing buffer; bolt body.



Firing pin in bolt is held back until gas operating rod closes action, locking bolt and then firing cap.



Trigger group is easy to take off; is neoprene covered for cold weather. Sight is marked in meters.

100-Match Winners Tell HOW TO BUILD A WINNING CLUB

By ROBERT DYMENT



New members in 500-man Buffalo, N. Y. gun club must take instruction from experienced shooters. Fine points of winning are passed along, help beginners take share of trophies.



**WHAT DOES THIS
CLUB HAVE THAT YOURS COULDN'T
HAVE IF YOU TRIED?
THERE'S NO SECRET TO
SUCCESS EXCEPT HARD WORK**



Scores are kept on file, show competitors' standing weekly. Here club exec Hal Dudley checks 90 target.

FOUR INDOOR TARGET shooting seasons—more than 100 consecutive matches—without a single defeat! That is the record of the Buffalo Revolver & Rifle Club, Buffalo, New York, in competition with 16 other teams in the Niagara Frontier Pistol League, covering the western New York area and nearby Canada.

What has made this club so successful in so many matches, shooting against clubs with equal advantages so far as membership and facilities are concerned? That's the \$64 question, of course, and I asked it of tall, friendly Harold Dudley, Pistol Executive of the Buffalo R&R Club. He gave it some careful thought before he answered:

"It's not an easy question to answer, because it involves a number of things. Even trying to state the factors in numerical order is tough, because they seem to me to be of equal importance. Each factor dovetails into every other factor.

"Practice is essential, naturally. And we are able to—and do—practice three nights a week. We have our own indoor range, which gives us excellent practice facilities. Tuesday, Thursday, and Saturday nights are open for pistol shooting. Monday and Friday nights are for rifle shooting, and Wednesday is Ladies' Night. Sunday afternoon is set aside



On Buffalo Revolver & Rifle Club indoor range George Young, president Bill Sutton, Harold Dudley and Matt Kuhn await start of timed fire. Ceiling is soundproofed.



Rugers are popular in Buffalo club. New men like lower first cost, often customize them.



Big Colt National Match .45s vie with revolvers in B.R.&R.C. matches.



Basic shooter's kit includes .38 or .357 (Python, above) revolver, .45 and .22 pistols, shooting glasses, tools.

as Juniors' Day, which is always well attended.

"To develop topnotch shooters, a pistol or rifle club simply must own or have free access to good range facilities. It's the only way members can get the necessary practice. But it goes further than that. The frequent get-togethers at the range build club spirit, which becomes team spirit when we compete with other clubs; and shooting together night after night produces member-against-member rivalries which provide incentive for each man to work to improve his scores. This means that a club must set aside specific nights for practice, and the members must be keen enough about shooting to devote those nights to it. We're lucky in having that kind of members.

"Another thing that has helped us make the grade competitively is—we provide plenty of competitive shooting. There's no way to make a competitive shooter except by competitive shooting. You have to get used to competition in order to shoot your best scores (Continued on page 50)

**SIMPLE IDEA IN TOOL DESIGN
IS MAJOR STEP FORWARD FOR HOME
GUNSMITH IN SPEEDY
STOCK SHAPING FROM BLANKS**

New Tools For Stocks

By CLIFF CURTIS

FAST BECOMING POPULAR with gunsmiths, and equally popular with the sportsman who is interested in shaping his own gun stock or in making alterations on a present gun stock, is a new line of tools, called "Surform" tools, made by Stanley Tools, division of The Stanley Works, New Britain, Connecticut. These tools, made up of blades with hundreds of individual hardened and sharpened cutting teeth are available in two basic styles: plane and file type. Flat and half-round blades are available. Working essentially like a wood rasp, the Stanley "Surform" tools cut all types of wood—soft woods, hard woods, decorative fruit woods—faster than a conventional wood rasp or any file hitherto available.

The secret of this remarkable performance lies in the fact that each blade is made up of from 250 to 500 individually hardened and sharpened teeth. Each pass of the tool over the stock, results in the removal of actual chips from the wood. The chips are cleared through the individual "throat" or opening above each tooth.

Because of the diverse shapes and styles—flat, half round, round, as well as convex—practically any area of a fine gun stock may be quickly and accurately dressed down to desired size with a "Surform" tool.

As a testimony to the effectiveness of these tools, many manufacturers claim that they do 90 per cent of the forming and shaping job after rough, hardwood billets have been cut out. Equally appealing to the "purist," is the fact that he may remove as much or as little stock as desired. The pressure exerted by the user accounts for this versatility. As a result, if the sportsman desires to remove a small amount of stock from any area, the "Surform" tool will provide a fast and ready answer for him. Similarly, if he is starting from his own rough billet, he can work



Surform black blade takes big chip, cuts fast for first hogging-out of stock from the rough blank, works like rasp.



Holders include file (above), plane, and rocker or convex type to form all kinds of flat, curved shapes in hard wood.

his stock down to the desired shape quickly and easily.

Two blade patterns are standard. The regular cut, the blade with the black finish, is especially designed for the speedy removal of softer materials, such as all types of wood. The second is a fine-cut blade, the blade with the silver finish, for the final finishing strokes. The cutting edges of the fine-cut are set so that they take half the bite of the regular cut, give a smoother finish.

New shapes now added to the blade family include the half-round and the round file type. They fill a need for trimming and forming concave surfaces and enlarging holes, as in the inletting for trigger or magazine.

Holders for the blades include the file and the plane, the pocket or block-plane type holder, and the "rocker" or convex. Favorites with gunsmiths are the file and pocket type holders using regular, fine-cut, and half-round blades. Retail prices range from \$1.79 each for the "Surform" pocket tool, \$2.69 for the regular and fine-cut file type, to \$3.69 for the convex with fine-cut blade. They are available through hardware retailers nationwide.

"Surform" tools, unlike other files, remove chips, not dust. They cut clean and leave a clean finish.





Finer cut Surform is white-finished, leaves wood smoother before sanding, filling, varnishing or oil finish. New gun gadget makes practical use of expensive blanks by casual arms hobbyist.



Set in file-type holder, Surform shreds off long curls of wood as if by many tiny blades, does not clog like wood rasp because teeth are open at back. Final comb height is shaped with Surform.



Ye Old Hunter is all heart!
Ye Old Hunter illustrates all weapons by actual water-
brushed photographs so you can see how they REALLY look!

AMERICA'S GREATEST SHOOT

All U.S.
(Springfield Armory)
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The Greatest Rifle Offer



ALL MILLED PARTS!
ALL MATCHING NUMBERS!

AMMO: Commercial made .30-06 ball-only \$7.50 per 100
ACCESSORIES: Brand new original leather slings, each \$1.95
Brand new Web slings, each 1.00
Issue 8 round clips, each30

Cal. .30-06 Original

Yes, Ye Old Hunter, the Guantanamo Buddha of the gun trade, world brings to you another fabulous shipment of the greatest rifle ever found... a gigantic shipment of "The finest rifle ever made" tens of thousands of ORIGINAL GARANDS, all in v. g. or better condition, all manufactured by SPRINGFIELD ARSENAL (no cheap contract in the world's greatest cartridges, .30-06, and all at a price EV can afford... just a mere \$79.95. Now you can throw away those old and rough Springfields you've been paying so much for from other step up and enjoy the best of 'em all, the great Garand, and blaze away!

U. S. ARMY MODEL 1917 CALIBER .30-06 RIFLES!!

Cal. .30-06



Virtually unfired... fresh from government cases.
All milled parts. All N.R.A. Very Good - or Better!

ONLY
\$29.95!

TIRED OF PAYING OVER \$40 FOR A U.S. ARMY .30-06 RIFLE? No was Ye Old Hunter, no he went out and now brings you this "SPACE AGE" SPECIAL and U.S. ARMY MOOSEKIN .30-06 RIFLE, GIVEAWAY WITHOUT PRECEDENT! The latest and best model U.S. Army bolt action .30-06 rifle, and strongest U.S. Army bolt action EVER made... This superb strength action can be converted to take virtually ANY cartridge but it already shoots the BEST OF 'EM ALL, the fantastic U.S. .30-06! (A few "like mint" selected specimens on hand for you ultimate Model 17 seekers at only \$3.00 additional!) Genuine Leather Military Adjustable Slings Only \$6.00! Garand Model 1917 Bayonet \$1.75! Bargain U.S. made N.C. ammo only \$7.50 per 100.

THE MOST DRAMATIC PRICE REDUCTION EVER

Cal. .303



New-only

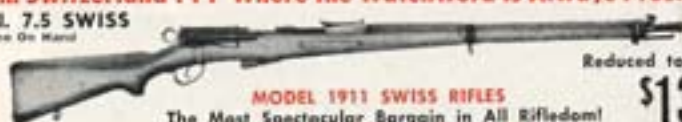
THE FAMED ROYAL ENFIELD No. 1, Mk III

Cash in today on the most astounding bargain EVER, before Ye Old Hunter wakes up he finds out what he's done. The price of the British Army from 1900 to Korea NOW at the GIVE-AWAY price of only \$9.95! Almost too fantastic to believe, and luckily so, otherwise Hunter might not have scraped a howling bunch both of competitors already at his heels have give-away bargains! Order yours today while this price is still in effect. Add only \$2.00 for specimen. Original long knife bayonets only \$1.25 when ordered with rifle. A truly incredible!

From Switzerland!!! Where the Watchword is Always Precision

Cal. 7.5 SWISS

Amme On Hand



MODEL 1911 SWISS RIFLES
The Most Spectacular Bargain in All Rifledom!

Reduced to Only
\$13.95!

The most SOUGHT AFTER treasure in all gun-dom—as last run down by Ye Old Hunter! A few lucky loads have been having \$99.95 for these 1911 precision masterpieces... but now this very rifle is available to ONE AND ALL at the reduced price of ONLY \$13.95. Super designed with the rapid (almost semi-automatic) straight pull bolt and also chambered for the SUPER ACCURATE 7.5 Swiss cartridge. New 7.5 Swiss Soft Point Ammo with all essential components only \$3.00 per box of 20. A must for any collection... Order now, before huge supply has been picked over. A fine lot of better condition, (selected specimens only \$3 additional!) Swiss Model 1911 Bayonet Only \$1.50! Swiss New Youth Camp Maquette—complete with Maquette—Only \$3.95! Your friends will marvel at this one.

AMERICA'S GREATEST DOLLAR for DOLLAR VA

Cal. .303



THE #4 ROYAL ENFIELD SERVICE RIFLE ONLY \$2

BRITAIN'S BEST!! The past year's fastest selling and most popular rifle and now at the reduced price of only \$12.95. Britain's latest and most developed service rifle which has the improvements of over 50 years of service requirements. Manufactured AS LATE AS 1945 standard in the British Commonwealth and many other nations. Proudly in service from 1900 to Kuala Lumpur! Carefully selected specimens only \$4.00 additional. Original bayonet only \$1.00 when ordered with rifle. The late model highly accurate receiver sight in p...

BEAUTIFUL GERMAN-MADE ARGENTINE MAUSERS!

Cal. 7.63MM



THE RIFLE THAT MUST BE ACTUALLY
SEEN TO BE FULLY APPRECIATED.
ABSOLUTELY "NEAR MINT" ONLY

\$19.95!

Never, NEVER, NEVER has such a Mauser bargain been available. UNBELIEVABLE. From our own size the best YE OLD HUNTER it would be unbelievable. You've paid more for bolt actions than for THIS MASTERPIECE. Buy now while they supply lasts. THINK OF IT—an original German made Mauser rifle in ALMOST NEW condition throughout manufactured in the prime vintage years with (optional) ALL MILLED PARTS and TRUE BLACK WALNUT STOCK and the best of all... the superb receiver chambered 7.63mm (.30) MAUSER rifle cartridge. Buy and enjoy forever... THE MOST BEAUTIFUL MAUSER EVER MADE! ONLY \$4.00 more if we select an OUTSTANDING Beauty! Original German long blade Mauser Bayonet and Scabbard: only \$1.50. Caliber 7.63mm AMMUNITION (Cal. .30) Only \$7.50 per 100. Caliber 7.63mm SOFT PT. (Hunting) Ammo Only \$3.45 per box of 200.

THE TREMENDOUS LITTLE ROYAL ENFIELD JUNGLE CAR

Cal. .303



THE ULTIMATE IN ENFIELDS—ONLY \$2

The World famous hard hitting .303 British Jungle Carbine at a price EV can afford. Order now while stocks of this premium rifle are still available low price of \$24.95. The rifle designed for Jungle fighting. Just the ticket for fast off-the-right down to the built-in rubber recoil pad. Be a proud owner of this "as is" sporter. The rifle manufactured for rapid firing with a full ten round magazine and only 7 lbs.—a true low Only \$4.00 additional if we hand select one in ultimate condition. YOURS THIS VERY

WORLD'S GREATEST—THE M91 MAUSER SPORTER!!

Cal. 7.63MM

• Adjustable Open Sight • Commercial High Finish Bluing

• Positive Safe with Checkered Lever



\$27.95!

• 5-Shot Magazine — No Clip Required
• All Milled Parts — 28" Barrel • 1 1/4" Swivels
• Select European Walnut — Partially Hand-fitted — Natural Oil Finish

The Fine German made Mauser M91—Beautifully sporterized at the most reasonable price EVER. The rifle that has EVERYTHING—top quality features NOT found on high priced sporters. Originally manufactured by the famous German arms makers Ludwig Lorenz & Co., Berlin and D.W.M., Berlin, during the great arms period when THE EMPIRE WAS IN TRAPSHOOTING and were lovingly sporterized at the lowest price imaginable. One of the finest Mausers of all time and with all milled parts. The M91 is stocked with only select European walnut, all finished and superior fitted. (Only obtainable today on a custom basis.) A Sporter gun can truly be proud to own the finest of the Mauser line and only \$24.95... the greatest quality yet ever!

(Add \$1.00 if we carefully select a stock with outstanding grain beauty.)

Special! IMPROVED CUSTOM ROYAL ENFIELD SPORTER

Cal. .303



OWN THIS FINE SPORTER—ONLY \$29.95

IN LIMITED SUPPLY—The No. 4 Royal Enfield, beautifully sporterized by the world-famous and Harrison gun makers (England's premiere gun makers)—and only \$29.95! Each rifle carefully selected for both condition and beauty. Each has been cut down and reshaped to perfect smooth and COMPLETELY refinished and reblued. Each is a genuine factory conversion as opposed with makeshift "cut-downs" advertised at fantastic prices elsewhere. Insist on Cugwell & Harrison conversion. This is the rifle that has all sportsmen talking. Own

IMPORTANT INFORMATION! SALES TERMS—PLEASE READ CAREFULLY: All guns and ammo shipped REGISTERED (Shipping Charges Collect) from Alexandria, Virginia. Send check or M.O. DO NOT SEND CASH. Sorry, NO O.D.'s. "Money's Worth or Money Back" guarantee when goods are returned prepaid within two days after receipt. Ye Old Hunter will not answer any indiscriminate type letters. Send them elsewhere. ALEXANDRIA, VA. THE GUN CAPITAL OF THE WORLD. World's Biggest Arms House—World's Lowest Prices. Order now. Sales Limited to Cont. United States! Never before, never again bargains. S-A-V-E! S-A-V-E! S-A-V-E! S-A-V-E! S-A-V-E!

REGISTERED DEALERS: Write direct to our Canadian Distributor,

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ring Ever.. Anytime!.. Anywhere!



"The Finest Rifle Ever Made" **\$79⁹⁵!**
M1 GARANDS Only...

Ye Old Hunter's bargain .30-06 MC cartridges for only \$79.95. This is no worthless bag of reject mis-matched parts someone was afraid to assemble; this is no phoney "auction" to stick you with what others would not buy; this is no over-priced monster from the other side of the moon, but the REAL THING from Springfield Arsenal, in superb original condition GUARANTEED by Ye Old Hunter and with all milled parts and all numbers matching. Send today! the best bargain of the new decade! Order from this ad to insure prompt delivery! .30-06 MC cartridges only \$7.50 per 100 rounds.

RUSSIAN M91 and M91/30 RIFLES

Cal. 7.62 Russian



Your choice **ONLY \$14⁹⁵!**

(M91 Model pictured)

THE MOST AMAZING FIND OF OUR TIMES. Authentic Russian Infantry Rifles in both the rare Model 91 and the rare Model 91/30. YOUR CHOICE of either model only \$14.95, or both models for ONLY \$29.45 when ordered in pairs. Guaranteed complete, in good serviceable condition and devoid of all communist rust. A hazardous find that shattered the shooting world, and what mayhem for our competitors who tried to jockey Ye Old Hunter out of this cache. Thanks to an underground waterway, shooting is now yours in the popular 7.62 caliber—only \$7.50 per 100 rounds. Today!

MODEL 3C SAVAGE .22 CAL. RIFLES

Cal. .22



ONLY \$9⁹⁵!

A FANTASTIC BARGAIN

Here at last! A rifle the entire family can enjoy. The perfect little .22 for all around plinking and target shooting, and at what a steal price—only \$9.95 complete and serviceable in every detail. While away hours of practically endless shooting with this eye sharpener. Better order this very day to insure one in your household!

Remington Made .43 Caliber Saddle Carbines!

Cal. .43



Genuine Remington Rolling Block Carbine

LOWEST PRICE EVER—Only \$17⁹⁵!

Just arrived! Rare shipments of arsenal reconditioned genuine Remington made Saddle Carbine complete in every detail and ready to go. The first and possibly LAST CHANCE for you Rolling Block lovers to purchase one of these true little rifles at a price never before heard of unheard. This is the rare octagonal breech model which makes it a collector's must as well as a shooter's treasure for a lifetime of rare pleasure. Original boxed UMC .43 ammo only \$8.00 per 100 rounds.

A Pancho Villa Special! Cal. 7mm Remington Rolling Blocks!

Cal. 7MM



TOTAL PRICE Only \$9²⁸!

NEW SHIPMENT of rare original 7MM Remington Rolling Blocks—the rifle that broke all sales records a few years back. Absolutely complete and in remarkable condition for the condition they are in. Condition is "gun nut special" and not to be confused with former "gun crank special" rusty relics. The finest 7MM Remington Rolling Blocks available anywhere. Own this historical relic for a mere pittance—only \$9.28. The rifle you can't afford not to buy! Glamorous, rare "short tooth" bayonets only \$1.95. 7MM M.C. ammo only \$6 per 100.

your official letterhead for new sensational discount lists. CANADIAN BUYERS: Write P.O. Box 824, Peterboro, Ontario. Add 20% to above prices when ordering and SAVE!

200 S. Union St. • Alexandria 2, Va.

SHOOTERS! DEALERS! COLLECTORS! Remove and frame this ad—SOMEDAY it may be used as MONEY! Hang in prominent place and replace pictures with actual weapons!

FOREIGN GOVERNMENTS!! Write directly to Ye Old Hunter. (Still one step ahead of a howling lynch mob because of his ethical practices.) Deal direct. Save money! Save Time! Save middlemen! Save agents! Save commissions! Immediate reply guaranteed. Ye Old Hunter—always the first with the most! World's biggest gun store! World's best prices!

WORLD'S GREATEST PISTOLS! WORLD'S LOWEST PRICES!

Order from this ad!

(Send permit if your state or city requires)

RARE MANNLICHER PISTOLS

Cal. 7.65MM

Now! Genuine, original, rare, Mannlicher Automatic Pistols at only \$24.95 in very good condition. A few excellent \$29.95. The most racy auto design ever. 7.62 Mannlicher Pistol ammo only \$7.50 per 100 rounds.



ONLY \$24.95!

MILITARY MAUSERS

Cal. 7.63 Mauser

Genuine (Oberndorf) 7.63 Mauser Pistols in stock for immediate shipment. The most precise pistol ever made. Perhaps never again available. Excellent condition—only \$44.95. (A few absolutely select only \$1.95 additional.)



ONLY \$44.95!

INCREDIBLE AMMO BARGAINS

MINIMUM ORDER 100 ROUNDS. All prices below \$100.00. All ammo must be shipped via EXPRESS. SHIPPING CHARGES COLLECT. Send your order to: Ye Old Hunter, 200 S. Union St., Alexandria 2, Va.

6.5MM ITALIAN IN CLIPS (M.C.)	\$ 7.50
7MM MAUSER (M.C.)	\$ 6.00
7.35MM ITALIAN IN CLIPS (M.C.)	\$ 7.50
7.5 SWISS SOFT POINT (20 rds.)	\$ 3.95
7.62x39 RUSSIAN SHORT (M.C.) (20 rds.)	\$ 4.95
7.62 RUSSIAN (M.C.)	\$ 7.50
7.63 MAUSER (PISTOL)	\$ 5.00
NOW 7.65 MANNLICHER PISTOL (M.C.)	\$ 7.50
7.65MM (.30) MAUSER (M.C.)	\$ 7.50
30 CAL. M1 CARBINE	\$ 5.00
.30-06 U.S. COMMERCIAL (M.C.)	\$ 7.50
U.S. .30 (.30-40 CALIBER) KRAG (M.C.)	\$ 5.50
CALIBER .303 BRITISH (M.C.)	\$ 7.50
.303 BRITISH SOFT POINT	\$14.75
8MM GERMAN MAUSER ISSUE (M.C.)	\$ 6.00
9MM LUGER (PARABELLUM) (M.C.)	\$ 5.00
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.42 COLT BERGMAN RIFLE (M.C.)	\$10.00
.43 (11MM) REMINGTON (M.C.)	\$ 6.00
.45 (ACP) COLT AUTOMATIC (M.C.)	\$ 5.00

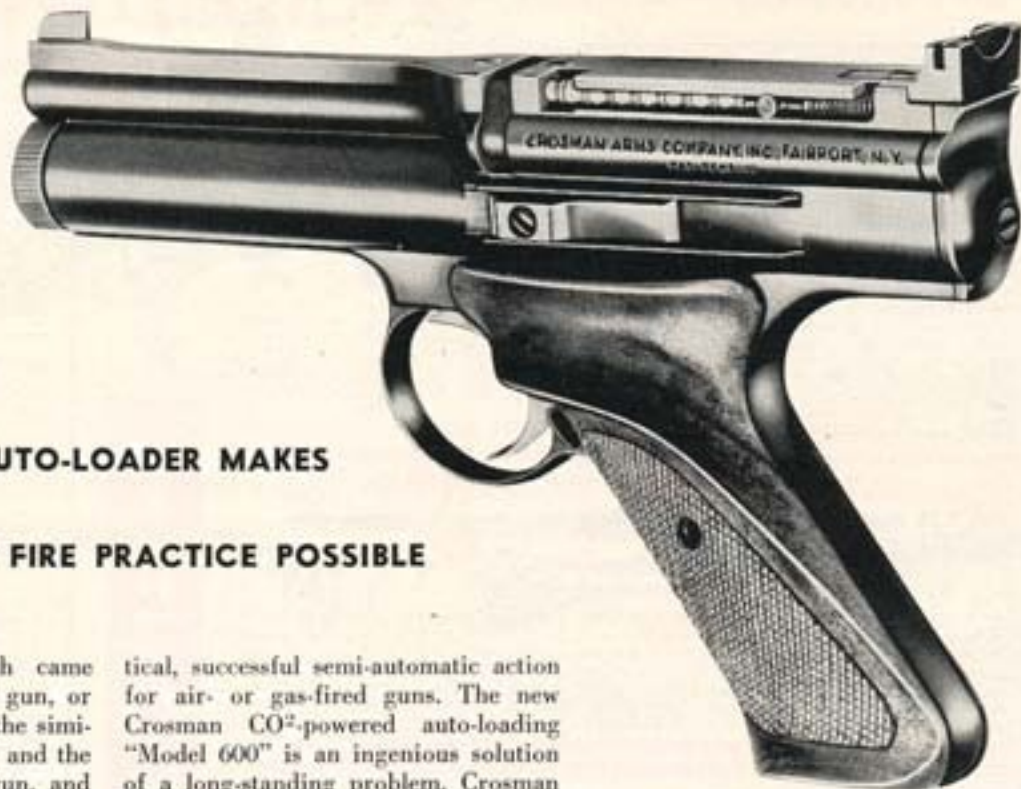
SPECIAL!!! Full case 7MM (M.C.) "Pullin" Ammo (1,000 Rounds) only \$10.00. NEVER before so much for so less. Bullets alone worth quadruple. Cracked necks insure tool-less pulling. Any with good cases give you the ammo bonus of this millenium. Packed in commercial boxes of 20 rounds each. Today's super give-away!

Bargains! Bargains! and Bargains!!!

NEW. In original wrapping, Colt 45 Automatic Barrels. Put your favorite Colt in new condition—or stock up with an extra.....Only \$4.95!
MAUSER 98 BOLTS. Stripped, slightly used, genuine issue Mauser 98 Bolts.....Only \$4.95!
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ATTENTION AMERICAN REPLENISH! Take advantage today of these superb, safe, sure, selected, annualized, special weapons and ammunition bargains! Never in history such a selection at such prices! Order TODAY from this ad, for lasting pleasure and permanent value! Don't be misled by claims of others—for the finest quality and greatest value selected surplus weapons and ammunition are unquestionably the best!

"They Said We Couldn't Do It"



By CLIFTON CAMP

CROSMAN'S NEW AUTO-LOADER MAKES IN-THE-HOME RAPID FIRE PRACTICE POSSIBLE

THE QUESTION, "Which came first, the air- or gas-fired gun, or the firearm?" is as tricky as the similar question about the chicken and the egg. Say "blow-gun" for airgun, and you have a clue to the antiquity of the airgun principle. A 15th century fresco at Angers, France, shows a blowgun being aimed at a pigeon. In many parts of the world, the air-powered blow-gun dates back beyond written history. Benvenuto Cellini (1500-1571) may have concealed his invention of a compressed-air-powered gun behind his tall tales of "a smokeless, flashless, noiseless powder."

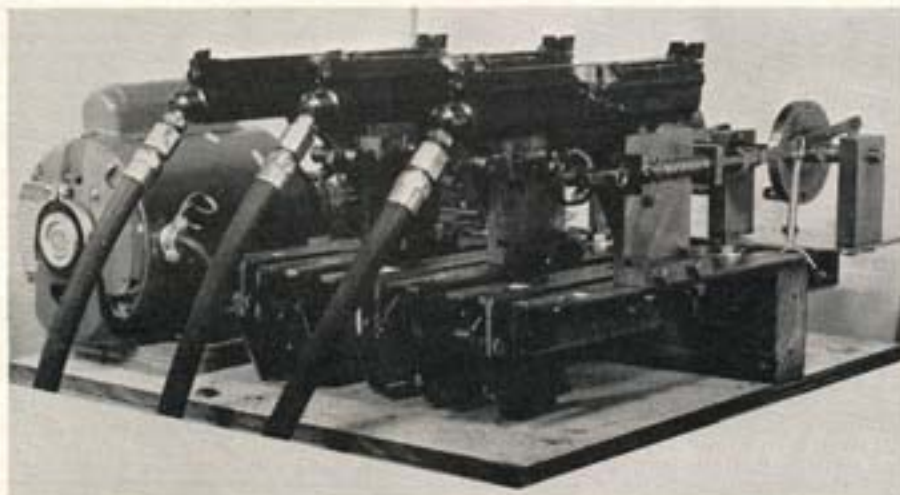
But in all those centuries, nobody (until now) has come up with a prac-

tical, successful semi-automatic action for air- or gas-fired guns. The new Crosman CO₂-powered auto-loading "Model 600" is an ingenious solution of a long-standing problem. Crosman releases call it "an engineering miracle", and maybe it is. At least it is an effective reply to the demand of target pistolmen for a pelletgun of high accuracy and fast-firing efficiency that would enable them to practice (at home, without objectionable noise) not only slow fire but also the timed and rapid fire stages of pistol target competition. It is also a fun-gun for plinkers and the hunters of lesser varmints. If you miss him the first time, shoot him again!

New pistol seems high in hand but is comfortable; triggers pellets as fast as your finger can move.

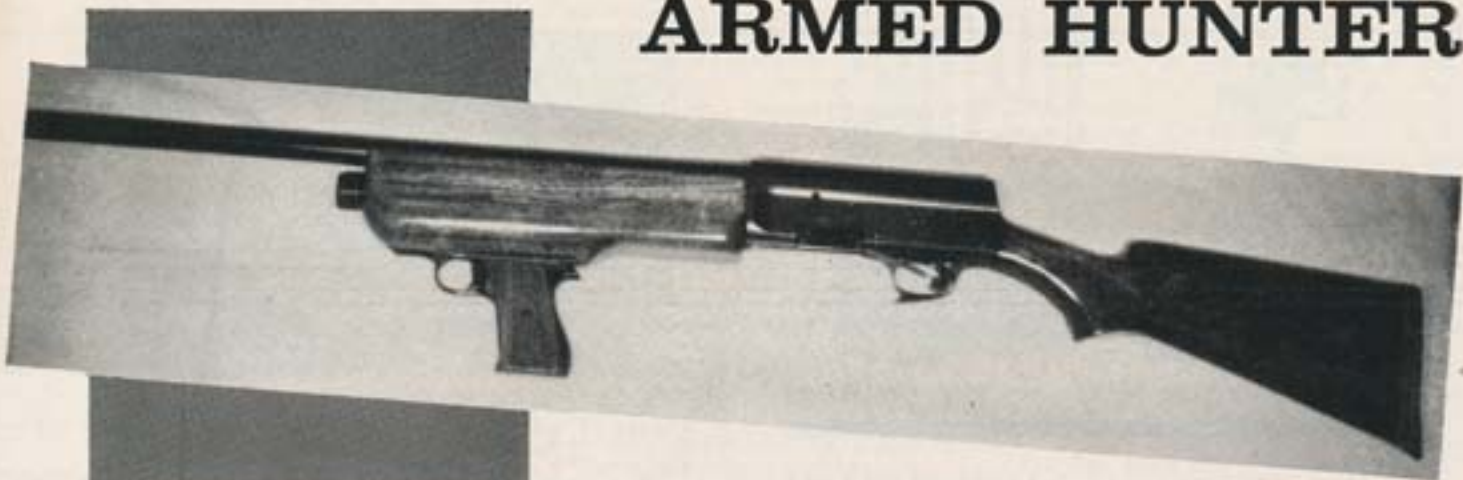
Crosman engineers believed the mechanical achievement of a gas-powered auto-loader might be based on the patented swing-feed mechanism of the Crosman bolt action repeating rifle. Their interest in the problem was stimulated by an independent survey of more than 11,000 pelletgun owners, dealers, and distributors who believed that a semi-automatic gasgun would "open a new era for shooters." New era, or not, they felt that they had a ready-made and waiting market among the target pistolmen who have long awaited a gun with which they could practice at home without arousing the ire of police or neighbors.

There were many technical problems. Basically, there had to be built into a pistol a loading and recocking device which would deliver with lightning rapidity a soft, pliable, .22 caliber lead pellet without deforming it—and return to receive and load subsequent pellets. The popular demand was "the faster the better." This had to be accomplished by using the carbon-dioxide gas to activate the semi-automatic mechanism. (Continued on page 56)



Not one but three pistols were tested under constant barrel pressure firing a hundred thousand times each without leakage or any mechanical failure.

A SHOTGUN FOR A ONE-ARMED HUNTER



**ONE HANDED HUNTER
GAINS NEW USE FOR
FAVORITE SHOTGUN
BY CUSTOM CHANGES**

By CHARLES L. UNIACKE
and
JAMES H. VEEDER

WHEN ACCIDENT OR NATURE leaves a man with but one hand, his shooting days need not be over. This was the view of one Maryland duck hunter who ended up at our gun shop with problems: his favorite Model 11 Remington autoloading 12 gauge, a yen for continuing duck hunting, and a prosthetic hook where his right hand should be. His right eye was master. The steel hook, manipulated by the right shoulder moving slightly rearward, made aiming and firing difficult. Two shots at a time were often fired because of insensitive trigger "feel", using the hook to pull the trigger. And with the right eye the master eye, he couldn't shift to his left shoulder for firing. Skipping over many ideas which were rejected one by one as impracticable for some reason, we arrived at a final solution. We installed a vertical fore grip with trigger and guard, and a means of linking the fore trigger to the regular trigger. One limitation to alterations was that the gun (Continued on page 52)



Pistol grip was put in special forend of old Remington 11 shotgun to enable right-eyed man to pull trigger with his left hand providing gun support.

Forearm detaches if owner wants to restore gun to original condition. Star pistol frame was fitted; linked to trigger by choke cable for left handed triggering.



Gun of THE MONTH

ONE OF THESE GUNS KILLED
HAMILTON—AND RUINED BURR



THE OLD • THE NEW • THE UNUSUAL

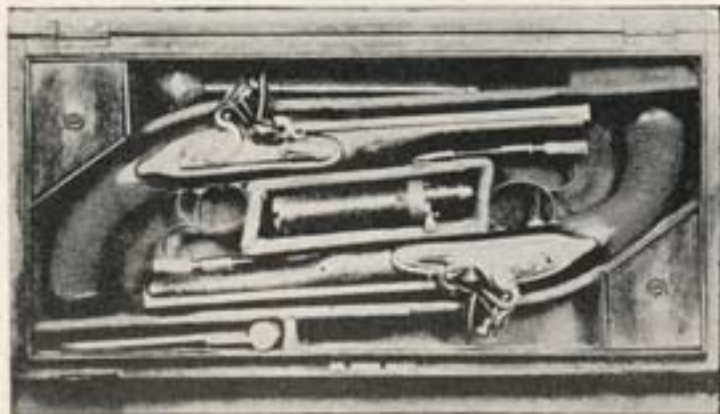


As Burr's bullet struck Hamilton in chest, the Treasury secretary fired his pistol in the air.



Authentic pistols used in duel came from duelling expert brother-in-law of Hamilton; then through family to present deposit in New York City bank. One was altered in Civil War.

By WILLIAM B. EDWARDS



Typical of arms claimed to be "the ones" is set by Booth, Philadelphia, taken from Burr at Treason Trial by Caesar Rodney.

WHEN MY GREAT-UNCLE AARON SHOT Secretary of the Treasury Alexander Hamilton, he killed one enemy but made thousands. Among the thousands are the many gun collectors who have claimed ownership of the pistols with which the deed was done.

No duel ever proved the fallacy of duelling as a settlement of disputes more conclusively than did this one fought on the greensward of Weehawken Heights on the Jersey side of the Hudson. Alive, Hamilton would have ruined Burr if he could. Dead, Hamilton ruined Burr more completely than he had ever yet succeeded in doing—for victory in the duel brought Burr nothing but condemnation, scorn, and defeats that led to political oblivion.

Yet even the guns seem almost to have been a part of a deadly destiny aimed at Hamilton. They were Wogdon duellers, bought in London in 1797 by John B. Church, Alexander Hamilton's brother-in-law. Church himself had used the guns in a duel with Aaron Burr—and missed, thus saving Burr for a later and more deadly engagement. And, in 1802, one of these same guns, (Continued on next page)

provided by Church, killed Alexander Hamilton's son, Philip. This was in a duel fought at Weehawken with one J. G. Yeager. When Hamilton took these "Wogdons" into his own duel with Burr, he was sorely tempting a fate that seemed pointed straight at the Hamilton family.

Pointing straight seems to have been a characteristic of the Wogdon pistols. A poem titled "Stanzas On Duelling," published in 1782, began with a reference to Wogdon: "Hail Wogdon, patron of that leaden death, Which waits alike the bully and the brave; As well might art recall departed breath As any artifice your victims save."

Wogdon's duellers are as distinctive, with the curve of butt, the graceful gooseneck cock, and the large guard bow, as is Wogdon's signature in flowery script on their locks. So noted were his products that any serious quarrel came to be known as "a Wogdon case."

The Burr-Hamilton quarrel was definitely a Wogdon case. The animosity between the two men seems to have dated back to the time when both served on the staff of young General Washington. Burr was transferred, but Hamilton continued as Washington's right-hand man, and this increased the enmity. In 1791, Burr added fuel to the fire by defeating Hamilton's father-in-law, General Philip Schuyler, in a Senatorial election. Later, Burr's influence in the pivotal state of New York carried the Democratic ticket (on which Burr was running for Vice-President under Jefferson) to victory. Unfortunately, Burr received the same number of votes as did Jefferson, and the election had to be decided by the House of Representatives. There, Hamilton's strength was sufficient to throw the decision in Jefferson's favor. Still later, Burr ran for Governor of New York and was defeated, partly because of Hamilton's bitter opposition. Hamilton publicly branded Burr "a dangerous man," of whom he could "detail a still more despicable opinion."

These were the words on which Burr based his challenge that Hamilton face him "on the field of honor." Hamilton accepted the challenge, and the result is history. They met on July 11, 1804. Hamilton died the following day. But Burr was dead, politically, from the instant the shot found its target.

The nation lost on both counts. The country needed Hamilton; it needed Burr. Burr was a dreamer with a talent for organization and a genius for leading men. He had proved this years before, in the Revolution, when he defied the orders of his superiors in the retreat from Long Island, but saved his men. He commanded a brigade gallantly at the battle of Monmouth. In January, 1779, he was assigned to command the line from the Hudson through Westchester County, N. Y., to the Sound. It was a lawless district, plundered by the rabble of both armies. He established martial law, a system of patrol, and restored order. This is not the record of a dissolute or heedless man, but that of a captain of firm moral principle.

Hamilton had risen in the tradition of Whig liberalism. Then Revolution gave rise to abuses of liberalism: factionalism and States' Rights dissent which, even today, are sore spots of conflict in the American pattern of organization. Hamilton, worried through the weakness of the Articles of Confederation that the young Republic should fall, became spokesman for the Federalist party. He was

wholeheartedly for a strongly united group of these "free and independent States."

Did Hamilton see a future when commerce and communications would knit the country together so strongly that even the strife of Civil War could not shatter it? Perhaps this may have given him cause to resent Burr, for Burr was an extremist in favor of States' Rights. He was also a believer in colonization and expansion. He put this latter belief to practice by planning to colonize land he bought and paid for in the Louisiana wilderness.

Land speculation was the temper of the times. The lean frontiersman with his Long Rifle is acclaimed as the settler of the continent, but it was the townsitely speculator in his search for "the Long Green" who really filled up the land. He surveyed towns, sold lots and, if too optimistic (as when the emigrants found their town underneath some hitherto unmaped wilderness lake), was hanged in effigy or for real if they could lay their hands on him. But Burr's plan was a sober one, to develop a new State.

To credit this ill-fated figure of history with any more dastardly plan is absurd. Even as vice-president and President of the Senate he presided "with a fairness and dignity recognized even by his bitterest enemies." As Senator from the most powerful State he had great political control without responsibility. But he did have the misfortune to gather about him some odd friends, including General James Wilkinson.

This blot upon our national record sold out his own country, Spain, France, and Britain to each other, simultaneously, collecting money as secret agent of all! Burr, some thought, planned to build his State and then

lead an army into Mexico, annexing this nation to the American West. Many U. S. statesmen and generals wanted to do the same thing. Jefferson with his principle of Manifest Destiny, General Andrew Jackson, Sam Houston in Texas, and even leading generals after the Civil War, were in favor of this move. But Wilkinson carried the tale to Jefferson that Burr planned to separate the western states from the U.S. and declare himself emperor. The resulting Treason Trial rocked the country. Colonel Burr was adjudged not guilty, but the strain was there and the talk finished him. His decline in public esteem and affection, begun when he fired the Wogdon dueller at Alexander Hamilton, was now complete.

Meanwhile, the Wogdon guns remained in possession of the Church family. Major Richard Church, grandson of John B., converted one to percussion and carried it as a militia officer in the Civil War. Why did he not carry both, as saddle pistols? The flint lock is in good condition, as ready for use as it ever was. Could this signify that the flint pistol was recognized as the ill-omened gun that slew Hamilton, and for that reason was not used? The pistols, unlike other Wogdons of the same form, have heavy brass forestocks. Target shooters have long recognized the benefit of a little more weight forward. As Aaron Burr proved at dawn one July day, it helps steady the aim.

(Aaron Burr's mother was the daughter of the Rev. Jonathan Edwards, early New England theologian, from whom the author is descended. The pistols are occasionally on display in the museum of the Chase Manhattan Bank of New York City.)

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THE LUCKY McDANIEL STORY

(Continued from page 18)

as small as a dime.

After this, you get the BB test if he thinks your eyes are of sufficient strength to follow its flight when he throws it up. "This is the supreme test of vision, confidence, and concentration," he explains.

Leaving the BB gun, McDaniel advances his pupil to the shotgun for the "graduation exercises."

The steps are basically the same. He starts slowly with clay pigeons gently tossed into the air. All the while, he is constantly urging, "look at the top of the target and shoot."

As you begin to hit with the shotgun—and it's usually a matter of one or two shots—the targets become more difficult. Lucky has by now picked up a hand trap and is sailing the clay pigeon out in every direction: duck shots, dove shots, quail shots.

Finishing touches are applied with small charcoal bricks. For one thing, they offer a smaller target. Also, Lucky can throw doubles, even triples, easily by hand.

And when you get your triple, what else do you need to know about how to shoot?

Stories about Lucky have been so numerous, a good deal of scepticism has been aroused among differently-trained shooters as to "how good" this man really is. Perhaps on the target range Lucky doesn't have a chest full of medals, for he has never followed the routine of competitive rifle, pistol, or shotgun. But some pretty hard-headed scientific shooters find his ideas and his results something a lot more than "luck."

Frank Connor, a civilian technical aid on the Downrange missile project working out of Patrick AFB, thinks McDaniel has "got it."

"He taught me how to quick draw and hip shoot a handgun," Connor says, "something I had been unable to learn with thousands of rounds of practice." Connor is pretty typical of the average "gun nut," a better than average shot, who cut his pistol teeth on a nickel plated .32 Hand Ejector which he used to toss into his bicycle basket along with hard-earned ammo and peddle out to his folks' place in the country for some shooting. When he's not working to aim the heavier kinds of missile hardware, Connor worked with Lucky; was once Lucky's shooting helper. "I know there are several people floating around who demonstrate or teach the quick draw and hip shooting, but I never knew any of them who could teach the whole works in four hours."

Another man sold on Instinct Shooting is tough, experienced Col. Lyman Davison, of the USAF security set-up. In teaching Air Police to shoot and hit, Colonel Davison has learned a thing or two about practical shooting. "If there's any defect in Lucky's teaching," he says, "it is that he over simplifies what you have to learn and be aware of in gaining real skill with a handgun. But I do know this much: we have taken men who shot all over the paper and, applying Lucky's principles, brought their groups right down like this," he reported, making a circle of his two hands, "and not only I but others in the outfit have found we are shooting a lot more over-90 scores with the pistol as a consequence. There's no doubt about it, this man has a system that works."

Whether the hunter and rifleman can profitably apply McDaniel's instinct shooting is a natural question. Veteran Idaho guide and outdoorsman Howard Sarvis, initiator of Trainfire, now studying small arms training systems at Fort Benning, not far from Lucky's home base of Columbus, Ga., unofficially checked out Lucky when the latter gave a demonstration at a turkey shoot of the Post Fish & Game Club. "Lucky spent about 10 minutes with me. I couldn't hit anything with the air gun at first; then I began to see the shot going and get the idea of the thing, under what I consider the most skillful and patient coaching I have ever witnessed. I got so I could hit that washer almost all the time, and then stepped aside as others were waiting..."

Sarvis noted that Lucky started with his BB gun throwing up a 2" washer about 5 feet in the air and hitting it. Then he switched to smaller objects, Alka Seltzer tablets, Life-savers and then aspirin pills. "He hardly ever missed," the Benning experts agreed. As to practical applications of Lucky's talents in these uneasy days, Sarvis is uncertain, not doubtful.

"Am I enthusiastic?" he asks. "I don't know. This... reminds me of Old Bill down at the service station who does my car work, hunts squirrels, claims to beat shotgunners though he uses a .22, doesn't even know what kind of sights are on his 'rifle,' not even sure he uses sights..."

"I want to see McDaniel do some shooting with an M-1 on a silhouette at 100 yards;

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then I want to see him do it with moving targets at that range or closer. I see no reason why he shouldn't. Those aspirin tablets figure out to around ten minutes of angle, which is a man at 200 yards. . . It may be there is a way to shoot the rifle at short ranges and, say, up to 15-20 moa targets, still or moving, that we have overlooked all these centuries.

"It will be quick as lightning and easy as pie. You don't even think about aiming; you just watch that target intently, either the bottom edge or the top edge, depending on whether it is on the ground or in the air. Your eyes are way above the barrel, just the end of your chin on the stock, and you had better forget how that barrel looks (that was my trouble, trying to watch the barrel and shoot it like a shotgun.) If you do nothing but watch the target, let everything else take care of itself, you will hit."

"If this works all the time, we had better tease it out, write it down, and learn how to teach it," concludes Trainfire Sarvis. And if Lucky's principles can be proved to work with heavy-caliber arms on a teachable basis, it may be that he has already done just that!

This incredible sharp shooter was born Bobby Lamar McDaniel on Nov. 9, 1924, on a farm near Thomason, Ga. The nickname, "Lucky," didn't come along until years later although, surprisingly, perhaps, it has no connection with his ability to shoot or teach shooting.

"I sorta grew that nickname around the pool halls back home," he modestly admits. "I never lost."

That, in a nutshell, goes a long way toward describing Lucky McDaniel. He is a man whose confidence takes second place to nothing in his total make-up.

He figures his shooting this way:

"If it's within range and I can see it, I can hit it!" It is amazing, too, how such self assurance rubs off on his pupils. This, no doubt, has a lot to do with the rapid way in which the beginner catches on to Instinct Shooting.

Six years ago, this blond-headed bundle of energy who, with his medium height and build resembles a college halfback, was a traveling tobacco salesman in South Georgia. But Lucky's switch to shooting might have been expected.

"An uncle gave me a 410-gauge single shot when I was five years old. I guess I developed a reputation as a fair shooter as I grew," he told me. "I began to capitalize on shooting, to some extent at least, while I had that salesman's job."

"Peddling snuff and tobacco, I remember times when I would go into a store, get turned down on an order and then resort to shooting to finally get the man to take an order anyway."

"If there was a rifle handy, I would use it. If there wasn't, we'd make arrangements to borrow one. Later, I learned to carry a rifle and BB gun along with me all the time. Anyway, the shooting deal went like this:

"I would bet the man I could throw a penny up in the air and hit it the first time. If I lost, I gave him a case of snuff or something else in my line. If I hit the penny, he would buy the merchandise. And I don't mind saying that I never did give any goods away. One day in Valdosta, Ga., Brooker Blanton, a former University of Georgia football player, and I got to talking about shooting. Before long, he asked if I would teach

him how to shoot. I agreed to try and he went out and bought 500 .22s. He burned powder and I threw cans of every description, pine cones and anything else we could get our hands on—with no results at all. I suggested it might be cheaper if we borrowed a BB gun and tried it for a while. It was here that I discovered how you can see the BB come out of the barrel.

"Brooker and I immediately saw that he was shooting under everything that I threw into the air. It didn't take us long then to correct his faults and he soon developed into a darn good shooter."

"Word began to get around. Before long I picked up more money teaching on week-ends than I made in a week with my traveling job. Two and two soon began to add up to four,

(Continued on page 43)



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(Continued from page 41)

as the saying goes, so I took the big fling, quit my selling job, and began teaching Instinct Shooting full time.

"Needless to say, I haven't been sorry one bit," he added.

A top shooter with skill like Lucky's, and patience to teach, didn't have to worry about a living. His talents were "a natural" for exhibition shoots under the guidance of Mike Jennings, a local promoter whose fame in the sports world is as wide as McDaniel's is in the shooting world. Jennings, who has Lucky under contract with his *Unlimited Enterprises* promotion firm, put a lot of big shows on the road including the Patterson-Rademacher heavyweight championship fight. Mike, no slouch with words, put Lucky's teachings into a book, "Instinct Shooting," (Dodd, Meade & Co., publishers); now markets a BB rifle kit which is almost as good as a personal lesson from Lucky.

Boxers and baseball players as well as football player Blanton have profited in their eye-reflex skill from Lucky's training. Last spring, Lucky gave lessons to members of both the Cincinnati Redlegs and Chicago White Sox teams while they were in training in Florida. And in a sensational season, the Sox won the pennant. Their hitting may be due partly to Lucky McDaniel, the man with the "most skillful and patient coaching ever..."

"I wasn't the least bit interested in the mechanical parts of baseball such as batting stance, grip, and other phases," Lucky told me. "My aim..." (and it's seldom he uses the word since it doesn't fit Instinct Shooting.) "was to improve their concentration and batting by teaching them to shoot my way, looking at the target."

The BB gun and shotgun are the prominent weapons in Lucky's instruction course,

but an obvious addition is a rifle. You would expect to hit with it what you could with a BB gun. Side arms are still another part of the tools of his trade. He has taught quick-draw and hip shooting to law enforcement agencies all over the southeast.

One patrolman in Prichett, Ala., credits Lucky with saving his life. The officer came upon a burglar trying to enter a store window by prying it open with a screwdriver.

When approached from the rear, the would-be burglar swung around, with the intention of planting that screwdriver firmly in the officer's chest.

Instead, the policeman put Lucky's fast-draw and hip shooting technique into action to drop his opponent right in his tracks.

With rifles and side arms, Lucky teaches his pupils to look directly under a still target.

"With either a pistol from the hip or a rifle against the shoulder, it doesn't make any difference," he says. "If that target is just sittin' there still, drop your eyes right under it and pull the trigger."

"Take a BB gun, for example. Step out into the yard, if it is large enough for safe shooting, and throw out a small match box or some other such object. Now, chin your BB gun, look to the bottom side of the target and pull the trigger. It should be a hit."

While he freely talks pistol and rifle target shooting, and will teach it if the occasion demands, you can't be in Lucky's presence long before learning that it is the elusive moving target that captures his fancy. When talking, his movements fall unconsciously into a rhythmical pattern of gun handling. He gestures frequently to explain his method of quickly spotting the moving target, chinning the gun and firing.

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(See also pages 6, 10)

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GUNS QUARTERLY? Page 42

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(Continued from page 43)

"It's just like a prize fighter throwing a straight left jab with his right cocked for a followup," he points out. "He is slightly leaned forward with his left arm out (gripping the fore-end of the gun) and his right hand cocked just at his chin (where one grips the comb)."

"All the while, though, his eyes are on

the target," he concludes with a demonstrating pose.

How about leading the moving target?

"Never," Lucky barks with trigger-like response.

"The only—and I mean only—time you lead with Instinct Shooting is when you lead that dead game back to the stove after a good day's hunting!"



HE RODE WITH WYATT

(Continued from page 21)

Wyatt told me that Wild Bill was the finest shot that ever lived, barring none. He said Bill wore a brace of ivory-handled cap-and-ball equalizers which had been presented to him by Vice-President Wilson, rather a Senator Wilson then from Massachusetts, I believe. In Kansas City, I believe, or was it Saint Louis, the boys used to hang about what they called 'The Square,' after selling off the season's robes of buffalo and such. Then Wild Bill would unlimber to hack up a bet by drilling a playing card across the street—wide street, mind you. He could also hit a coin in mid-air and draw-shoot with unfaltering speed and skill. He wore both guns, said Wyatt, butt inwards, and drew by hooking the forefingers in the trigger guards, then spinning the guns over and lifting the hammers at the same instant. Odd way to shoot, wasn't it? Earp never made any comment on it, however. It must have suited Wild Bill, and killed a lot of men. He said that Hickok was a fine specimen of a man, haughty, proud, and he'd hunt a man through the streets like a tiger if his hackles were up."

"Did Wild Bill Hickok go blind of glaucoma? They say that he visited Cheyenne's post surgeon and has his eyes examined for the terrible disease. He shot his own deputy, you know."

"I don't know. It might be a cock-and-bull story."

"Mr. King, did Wyatt ever speak much of famed John Ringo?"

King shook his head. "I don't rightly remember. But I know that Ringo has been played up by TV and film to a point where he looked like a damned fool. Men wore the guns high on the hip, in the old days. Take a look at all the old photographs; they don't lie. And I never saw the kind of hats they wear on TV either. I met Bob Hope in Hollywood and also Hugh O'Brian on his set. The director asked me to watch them take a scene, and so I sat down and watched. Then the director asked me how I liked it. 'Well,' I says, 'it's all right I guess.' But when the sheriff said he'd confiscate them guns, that was wrong. I don't believe they'd have known what the word 'confiscate' meant in the Old West. No, Wyatt only referred to Ringo in relationship to Jesse James as being a cousin. The name 'Ringo' has a good sound to it, and the writers and TV men would eat this one up!"

"You said a while ago that most of the gunslingers were blue-eyed."

"That's what Earp told me; about ninety per cent of them were of the light-skinned, blue-eyed type of men. But was that way I remember, for one. Did you know that he later became a sportswriter for the New York Morning Telegraph? Speaking of Masterson, he killed a man with a pistol in a fight over a girl, and got a slug in the leg.

This made him limp. So he bought a cane and became nicknamed 'Bat' because he used that cane on the heads of rowdy cowboys in the cowtrail towns of the early West. Bat also carried a second gun, a Frontier Colt. He wore it in a shoulder holster."

"Mr. King, Doc Holliday is about the most talked about gun-fighter of the Old West. How come? Did you know him?"

"Know him! How could I? I worked with Wyatt when he was in his fifties and I in my twenties. Doc Holliday died at Glenwood Springs in '97 I believe—in bed, mind you, of the T. B. bug. Sure, Wyatt talked of him. Doc was his best friend, and Wyatt often said that nobody, just nobody, was a match against Doc when he whipped out that old nickle plated .45 Colt. You see, Doc was dying of tuberculosis anyhow. He always told Earp he had nothing to lose. So he had the nerve of the devil himself at a gambling table or bar, and Wyatt said that nerve was half the battle in a showdown when the play was about to be made. He said Doc could kill a man over the slightest irritation. Many a man failed to die, however, due to Doc having respect for his friend, not wanting to cause trouble in Wyatt's bailiwick."

"Doc was a lawman too, a deputy to Wyatt?" I quizzed him.

"Never heard of it. As a matter of fact, Wyatt Berry Stapp Earp, his full name, was never a U. S. Marshal, as most people would believe. If you don't believe this, write S. A. Andretta, Assistant Attorney General of our Justice Department, and he'll tell you. Wyatt was a deputy U. S. Marshal in Tombstone."

"Have you ever heard tell of a gambling man by the name of Ben Thompson?"

Mr. King sat up in his chair and rolled a Bull Durham cigarette. A ring of butts was around his chair where he had been sitting and talking. "Wyatt spoke of him many times. Ben Thompson, sir, was perhaps the greatest gunfighting man that ever lived. He killed over 40 men, not counting those Mexicans when he served in Mexico under Maximilian, or Negroes. He started the legend of Wyatt Earp along the cattletails when his brother, Bill, killed Sheriff C. B. Whitney in the plaza of Ellsworth, Kansas, with two shotgun loads from a handmade English 12-gauge weapon. Earp made a boast that he'd not let the man Thompson 'tree the town,' so to speak, and found a badge pinned on his chest. Wyatt had the nerve, and walked out into the street and told Ben to throw down the gun. Ben conformed and later said there was something in the manner of that feller Earp, the way he told Ben that he'd kill him if he didn't. Ben lived on hunches but failed to follow one apparently when he and gunslinger King Fisher came to an untimely end in the old Jack Harris Saloon in San Antonio, Texas,

where they were ambushed. Yes, one might say that Ben started Wyatt Earp's fame, then the movies brought him to Hollywood in later years, and we all know the TV build-up we view today!"

"To get back to Doc Holliday, Mr. King, didn't Doc always carry his weapon, a sawed-off shotgun, under an overcoat?"

"Hell no. That is ridiculous. Wyatt told me that Doc only carried a shotgun once that he knew about, and that was when he went with Virgil and Morgan—Earp brothers—into the shootout with the Clantons at the OK Corral. Movie nonsense again, sir! The gun Doc used was sawed off under 18 inches and the stock cut off so as to form a pistol handle—a formidable weapon."

"Was there much powder smoke at the Gunfight at OK Corral?"

"How would I know that? I wasn't there and I am not old enough to have been there unless in swaddling clothes! I worked with Earp in the 1900's when he was in his fifties. I do know that the old-time gunsmoke hung like a curtain in a room so that, Wyatt told me, a man had to get down near the floor and peer into the recesses of a room to get a shot when heavy shooting was in process."

"Did Earp ever speak about John Wesley Hardin?"

Mr. King pulled on his cigarette. "Never heard him mention anything regarding Hardin, but often talked about Hardin's cousin Manning Clements, who was a hell for sure."

"How about this Hell-raising Clanton family? Ever hear Earp mention it?"

"Old Man Clanton? Many times! He was a big-bellied, beef-eating rustler and gunslinger, with gunslinging sons, who directed a rustling empire which stretched along various watering holes from Galeyville and Tombstone down as far as New Mexico, into Sulphur Springs Valley and beyond. And there was not a man in the Territory who dared raise his voice against the wrath and terror of Old Man Clanton. With Curly Bill Brocius as his captain, Johnny Ringo, Frank and Tom McLowery, Pony Deal, and his sons Ike and Bill Clanton, all were killers and fast-draw artists. That feud between Wyatt and Clanton went on and was settled in the OK Corral shootout."

"Wasn't Johnny Ringo a morose sort of tragedian?"

"I don't know what you mean," Mr. King laughed. "Them words are pretty dressed up for an old cop like me, and I don't know too much about Ringo. I believe he came from Kentucky, and a fine family, and always wrote home that he owned a ranch near Tombstone, as he didn't want to worry his Ma. Funny thing about a killer, isn't it, always worried about his Ma. I once knew a killer who has his mother's name engraved on the grip of a .32 rimfire Sharps pistol."

"How about Clay Allison? Did Earp speak of him?"

"Yes, Said Allison was a killer when drunk and liked to pick fights with gunslingers in particular. He told me Clay once dug a hole with his neighbor and they got down into it and fought a fight with Bowie knives to the finish. He said Clay stood six feet, two inches tall or six three in boots and remembered him well when he stood before Wyatt in Dodge, only to back down when he found Earp had the pushing end of a .45 in his guts. Wyatt said he was a mighty tall man

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(See also pages 4, 7, 12, 13, 46, 48, 49)

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with ambitions he never realized, and never gave him any trouble after the play in Dodge."

"Was Wyatt Earp a fancy dresser?"

"No, he wasn't. He was a plain man with simple habits, a quiet man never given to brag and swagger, and he seldom wore a gun at all when I knew him. He usually left it lying up in the back seat of the old Franklin automobile. Wyatt's left eye would twitch when he was mad and you could hear him breathe. He'd fight you come Hell or high water, however. He was a fighting man first and always."

"Wyatt and I had a falling out in Los Angeles, in front of the old Hot Rivet Saloon, on Spring Street. He got into an altercation with a couple drunks and came outside to borrow my gun, to buffalo them with it, I thought he might get too mad and kill one of them, so I refused to lend him the weapon. He went back inside and beat the daylight out of both of them. However, from that time onward, our old warm friendship vanished; Wyatt and I were always on speaking terms but never close again."

"Did Wyatt talk about Billy the Kid?"

"No."

"Was Billy the Kid left-handed?"

King smiled. "That question has been argued for years. He was photographed in front of the old Smith Saloon in Fort Sumner, in 1880 I believe, and the process, so I am told, reversed the image and gave everybody the idea that Billy was left-handed. Sounds convincing enough to me."

"Was the Kid ever in Arizona?"

"Oh, yes. I understand he killed a negro at Fort Bowie, a couple more at Tucson."

"What kind of holster did Billy wear?"

"I can answer that, too; he wore one made out of an old army boot. Funny how he could get his weapon out in such a hurry, a .44-40 according to Coe, with ammunition to match his Winchester."

"It would have been interesting had the two met. How do you think Wyatt would have reacted to Billy?"

"How would I know that? He'd have respected his shooting ability. Wyatt stood in reverence to a gun like a preacher does the good book, or like a painter of gunfighter portraits should the characters he portrays."

"Do you think these paintings look like real gunfighters?"

"I never knew them all, but I know that those of Wyatt Earp and Bat Masterson are corkers. Looks just Wyatt Earp, this portrait, and the one of Bat is good, too. Lea drives all over the U. S. getting at good sources or the old taintypes from which to paint. He painted me, too, for that matter, and mine is hanging down at Elko, Nevada, along with the rest of the no-goods of history. Lea's got another set of gunfighters at the Frontier Inn, Rod Poll's famed spot in San Francisco, and at the Apple Valley Inn, at Calico, and in other spots where Americans who love the West can have a good look at what made up come twenty years of Hell and guns on our frontier—all history now."

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(Continued from page 27)

and prowess with arms was ever eclipsed, it was usually by another American—perhaps Doc Carver, or "Missie" Annie Oakley, or the redoubtable straight-shooting Buffalo Bill Cody.

But suddenly this sports competition ceased. Suddenly, the very organization set up to monitor U.S. participation in International pistol shooting, the U.S. Revolver Association, dwindled almost to nothing just as it was getting started. The few pistols developed along the lines of the International Shooting Union (Stockholm) requirements are today's collectors' items: the famous Smith & Wesson top-break single shot with its "Olympic" rifling, and the lamented U.S.R.A. Model Single Shot Harrington & Richardson.

What chopped this spirit of friendly world sports participation in the neck, what delivered the rabbit punch of isolationism to American shooting? Perhaps it was the "keep out of Europe" sentiment which plunged us into World War II, or perhaps it was the shrinkage of Depression. The effect was certain; the U.S. and the rest of the world drew farther apart. The split was symbolized by the schism in the shooting game and was exaggerated by our miserable failing on the fields of sport when we tried to compete.

Fortunately, this is a sport, a game, a hobby, a recreation. There is time to mend one's ways. And with teamwork, also typically American, industry, competitors, engineers, management, and military high brass, have clubbed together to do something about it. For want of a better name, what they have created is called The High Standard International Free Pistol, Caliber .22 Short. It could just as well have been called "the Hancock pistol," or the "Donovan gun," or "Wilhelm's wonder," or "Gano's gat," for among many names and

men who worked to build the pistol which the United States International Team will fire at the Rome Olympics, perhaps for Golds, these men stand out.

Chunky, compact Bill Donovan has the look of a rugged, honest Irish cop. But as an honest American businessman, he is vice-president of High Standard. With the company since 1940, Bill has had many second thoughts on the back of an American free pistol at the recent international jousts where we have been so roundly beaten. It's a backhanded sort of compliment to say that the dropping block "Martini" system pistols of foreign manufacture are actually "the invention of the American, Peabody, modified by the Swiss, Martini." The fact is that U.S. shooters have either used foreign-made pistols, or wrapped tape and lead to the barrels of home-butchered, otherwise-reliable and sound, U.S. sport pistols. And a putty-handled plinker simply isn't in it for class with an ounce-light-trigger Free pistol of Swiss or German make which may set itself off when a light breeze bats against the trigger. (The record keeper will give you an alibi and a second shot when that happens in ISU matches.)

But Donovan is not a gunmaker, though he plasters a fine straight wall if he's a mind to do it. Unfortunately, the skill to lay plaster isn't what it takes to design guns, and High Standard had to wait a long time for circumstances to jell and a Free Pistol to emerge.

Another man chafing at the absence of any decent American single shot was Col. Tom Hancock, chief of the Advanced Marksmanship Unit at Fort Benning, Ga. It's an interesting truth these days that when commercial and civilian ventures don't procure a new product, it is often left up to the military to somehow cadge the capital from Congress and accomplish the needful. Maybe this is "competition" with private industry, a charge often leveled and perhaps with justice at some work of our military establishment. In this case, Defense and Industry perfectly supplemented each other, and it happened this way...

Sometimes truck drivers upon entering Service are sent to Cooks & Bakers School; and some civilian ordnance men learn how to be hospital orderlies. But sometimes the peg and the hole are brought together, and if ever a man fitted his position in the Army, it is M/Sgt. Bill Gano, armorer and shooter at AMU. Bill Gano is a slight, wiry man, far younger than the average shooter's conception of a "master gunmaker." But to those who know him, know his ability and his imagination, he is tops in the field. Gano, under Col. Hancock's urging, got the green light, worked out some Free pistol notions that showed considerable promise. Hancock managed finally, from the work done at AMU, to himself get the okay to publish a tender for bids to industry, seeking a civilian contractor to take over a development and tooling job. And as Donovan puts it, "We have a pretty good reputation for .22 pistols, and we got the job." Now

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comes forth Gary Wilhelm, the Hamden boy from Old Wien.

Gary is sharp, no doubt about it. His work in completing High Standard's Trophy series of automatics produced a superior article all the way, range-proved with wins. Because of his European background, and because of his realization that his adopted country was languishing behind the eight-ball of International scoring, he, too, had been puzzling over the Free pistol problem. Now it was dumped into his lap.

One requirement was tossed into the pot by Donovan—safety. Mechanical pistols, even the admirable five-lever set trigger affairs now made, were potentially unsafe. Most free pistol shooters set their triggers, nominally adjustable to as light as one ounce pull, so that they will fire if the arm is raised 45° above horizontal. The ISU rules require the shooter to begin with the pistol pointed 45° below horizontal, then raise the pistol to eye level—and with good reason. Free pistol shooters develop a healthy respect for their guns! They are temperamental as a Thoroughbred yearling, and need a firm but gentle hand to master. But mechanical triggers so far constructed just aren't safe—at least, not safe enough for the "home fun" angle taken by the pistol makers these days in an effort to broaden the interest in their sport. Donovan laid down the law—this gun had to be safe enough to shoot indoors.

Another reason is the shyness of many shooters. Nobody likes to be laughed at, and a Free pistol in good form will tie a solid centerfire paper puncher in knots, trying to whip it. The club champ may not like going to the range with all the boys hanging around and make a fool of himself. With the new pistol, the High Standard VP hoped, a good pistol man could practice at home, until he was expert enough to make his first public showing. Such a safety feature would tie in nicely with the recently promoted scaled-down ISU targets proposed by the National Rifle Association for indoor Free pistol short range practice.

Wilhelm hadn't been sleeping at the switch, either. And the smile is pretty appropriate, for the solution both Gano and Wilhelm agreed upon was—an *electric trigger*. The resulting pistol package is no Buck Rogers contraption of power packs and generators, but makes use of the obvious in modern technology—miniaturization of circuits and power sources, applying it to firearm functioning. It is a neat handgun of conventional free pistol styling. The new stuff is inside.

Electric triggers are not new. The idea has been kicking around, first in France before the turn of the century, and in later years even applied experimentally to the Model 52 Winchester. But the practical production use of an electrical trigger is definitely new.

The striker is held cocked by a rotating sear which is forced to pivot about its center by pressure of the striker spring. But the striker, forcing against a slope on the sear, is blocked in "cocked" position because the rotating sear itself has a sub-sear notch into which the end of a long sear bar or connector rises. The bar end is hardened, resists the direction of thrust of the rotating sear. But when the trigger is pulled, closing the circuit of grip-held 6½ V. batteries, an electro-magnet is activated. With the sear-blocking end of the sear bar or connector jerked out of engagement with the rotating sear by sudden magnetic force when the trigger is

touched, the rotary sear is free to pivot and the striker slides over it to bust the cap.

Mechanically, it resembles in some principles the trigger in the new Savage M99 or the Model 70 or other "can't jar" sears of custom smiths. But the application of electricity in this fashion is all new, imaginative, practical. And, above all, safe. In the mechanical elements of the new trigger are screw-adjustments to permit the best trigger pressure, position of guard, and other conveniences for the shooter. Barrels of 8", 9", and 10" are available, the latter weighing 50 ounces. Mass production of the new gun will bring prices under the \$300 of foreign makes, Donovan hopes.

Right now the pistol is only for the Boys from Benning, the men selected through stiff competitive shoot-offs to represent the U.S. at the Rome Olympics this September. Whether you will be able to buy one of these new pistols is pretty much up to you. If five people in the whole country want one, there isn't market enough to make it possible to sell them. But Uncle Sam has underwritten the cost of development. The market must exist in the U.S. Mere arithmetic says that those few Free pistol shooters before the War—the 1941-45 war, to you youngsters—will have expanded into many thousands in the next decade. Even without any promotion and formal competitive interest in Free pistols there would be a market of sorts.

But the type of man who enters a new field of sport does so not for the game alone, but to match his wits and skill and nerve against his fellows. Come the 1960 Olympic shoots in Rome, win or lose, will the American Free pistol at home prove itself a winner with Stateside shooters?

* Various known as groundhogs and woodchucks



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HOW TO BUILD A WINNING CLUB

(Continued from page 31)

in competition. Believing that, we enter as many matches, large matches or small ones, as we possibly can. The Club pays the entry fees in team matches in registered shoots. Practice is essential, and we practice. Member-against-member rivalry breeds desire, and we have that. But actual competition in a lot of matches, league and non-league, separates the men from the boys. If a man's match scores are low, he knows he either needs more practice—or better self control under match pressures."

Dudley paused, grinned half-sheepishly, and made a shrugging, hand-spreading gesture. "I've told this to other clubs, and some of them have said, 'Sure! We know all that; but—how can you get members to put in all that practice, and attend all those matches?'"

"Well, as I said, I guess we're just lucky in having members who have that kind of interest. But you've got to keep your members interested; interested in shooting, and interested in the club. We try to do that by running our club efficiently, by providing a lot of shooting activity and a lot of good-fellowship—a lot of fun."

"We work hard for good attendance, both at club sessions and at matches. We are all agreed that good attendance at matches gives us a definite edge on competition, because if one member doesn't shoot up to his par in a given match, his low score probably won't hurt the team score—some other team member will come through in your place with a 'good' score."

"To be a successful shooter you must practice as often as possible, both on the

range and at home by dry-firing. Dry-firing is excellent, and essential for trigger control; but of course it does not eliminate the necessity for practice with live ammo. Our Club members also must practice match shooting, and every chance to compete should be accepted."

The B.R.R.C. has 500 active members in its pistol, rifle and big bore club. Charley Wolff, a top shooter with the Club, has been a referee at Camp Perry and is a Director of the N.R.A. and a member of the Pistol Committee.

New members to the B.R.R.C. must be recognized by an existing member. The existing member is responsible for the new member. Each year, the Buffalo Revolver & Rifle Club operates N.R.A. classes on pistol shooting, which includes marksmanship, gun-handling, safety, nomenclature, etc. All new members must attend such classes and are given a National Rifle Association manual to study.

Dudley pointed out that good organization is essential in the success of any shooting club. An annual meeting of the B.R.R.C. is held to elect officers, plan the spring and fall meetings for the coming year, and elect members to the seven-man board of directors. The Board meets once a month. At these Board meetings, new members receive a 90 day probationary card, which among other things, requires that the member shoot during the probationary period. Dues are \$5.00 a year and the range fee is 35c a night. The B.R.R.C. has been at the present club building for the past eight years, having moved from Niagara Street in Buffalo.

With seventeen teams in the Niagara Frontier Pistol League, each team fires a match with each other team in the League at least once in the season and with half of the teams twice on a home-and-home schedule, thereby making two divisions. Those that have met once make one division, and those that have met twice make the other. (Similar to the schedule of the National Professional Football League.) There are 23 matches in a season. At the conclusion of the season, the winners of the two divisions meet for the League Championship.

An interesting feature of the indoor range at the B.R.R.C. is the interlocking steel backstop. Any section can be removed and replaced without interfering with the overall backstop. This backstop was designed by Andrew Kreitner, a rifle shooter and architect. It is formed by welding angle irons overlapping the plate on the one side and short of the edge on the other, so when it's bolted the plates are drawn together.

The club uses the N.R.A. standard 50 ft. indoor target in slow and timed fire, the frame being 12" by 24". A new target timing device, designed by club president Sutton, has drawn favorable comment from many expert shooters. Basically, the novel device operates as follows:

Targets normally are turned sidewise at the start of course. "Start" button is pressed at command "Ready on the firing line." In three seconds, the targets turn 90°, facing the competitors, and after a pre-set interval of time (10 or 20 seconds) the targets return to the "side" position. All this is accomplished automatically by the one depression of the "start" button. The targets may

(Continued on page 32)

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(Continued from page 50)

be turned manually by separate push buttons. What kind of pistols are popular with the B.R.R.C. members? They use High Standards, Colts, Rugers, Smith & Wessons, and other varieties—with makes fairly evenly divided among the members. Do you need a special type of pistol to become a "good" shooter? Pistol Exec. Dudley says,

"A shooter can't 'buy' a good score. He has to earn it." His advice is not to purchase the most expensive gun when first starting to shoot, but to obtain a standard make and learn the fundamentals of shooting first. Later, the shooter should be able to tell which type of pistol suits him best, and then is the time to go overboard and purchase a better pistol. But first, he says, "get a good score with a standard make weapon. Any hand gun of good make will shoot better than the fellow holding it."

Who are the Club's top shooters, how good are they, and what do they shoot? Well, Bill Sutton, President of the B.R.R.C., and Harold Dudley, Pistol Executive of the club, are two top pistol shooters, shooting up in the 280's and 270's respectively. Other top scorers in the pistol department are:

Charles Wolff with a 273 average, using a Colt M.T.; Donald Barber, 268 average, uses a Ruger MK1; Henry Tomczak, 266 average, with another Ruger MK1; Earl Jones, with an average of 266, uses a Clark Ruger; Marion S. Pagano, with a 266 average, uses a Hi Standard Citation; George Young, 272 average, favors a S&W-41; and Anthony Parker, 265 average, uses a Hi-Standard G. Lee H. Dierdorff, with his Colt M.T., was for years the Club's high man with a score of 275, but he recently moved away.

Besides winning the 100 league pistol matches of the Niagara Frontier Pistol League in four straight seasons without a defeat, the B.R.R.C. has gone on to win the

New York State Indoor Pistol Championship in 55, 56 and 57, competing in the New York State Pistol and Rifle Association matches, all of which are held indoors. Three out of five members of the New York State Pistol League team at the Camp Perry meet in 1957 were from the B.R.R.C. They were Sutton, Wolff and Dudley.

The Niagara Frontier Pistol League was organized in 1938. There was very little or no activity during World War II, since during that period of world crisis the League devoted its time and effort to training plant guards, recruits and other war activities. At the end of hostilities the Niagara Frontier Pistol League again started to function with team matches. The League, with three Canadian teams, gives it an international flavor and atmosphere.

All of the Niagara Frontier Pistol League matches are shot with .22 calibre pistols, but they do have an informal center fire match with the larger guns, but this is shot on an individual basis for record only.

Many consider this a four-season, over-100-match "string" a national record. National record or not, it is a fine record, attributed by the Club officers and members largely to the number of serious shooters in the Club, but at least partly to the Club's interest in shooters and the promotion of shooting. Certainly the knowledge of more experienced shooters rubs off on the beginners, and the Club has instilled a look, listen, help, and shoot policy that build scores and at the same time builds fellowship and interest. Officers and members alike are justifiably proud of their Club and its record.

"But," they will tell you, "there's nothing about us that makes us different, and nothing we do that you can't do also. Good fellows make a good club, and the two together make good shooters. You can do it, as we have. Why not try it?"

SHOTGUN FOR ONE-ARMED HUNTER

(Continued from page 37)

must be easily restorable to "factory" condition in case of future resale.

First, a new forearm was fitted, that allowed proper recoil operation but permitted attaching the vertical foregrip with rearward trigger linkage. For the grip, a frame of the Star Model F pistol was obtained from Firearms International, and modified by milling off the barrel lump. Pin holes, safety mounting hole and magazine hole in the bottom of the frame were filled with weld and finished smooth. The original Model F trigger was then replaced in the frame, and a booster-spring guide arranged in the recoil spring guide hole. This spring, with the linkage to the actual trigger attached, gave a controllable amount of trigger force to prevent accidental doubling when the grip is held and trigger pressed using the left hand. The best final solution for trigger operation abandoned metal rods and bars for the linking; used instead choke control cable with the heavy coiled outside fixed tube guiding the inner very light steel piano wire. Because the Remington Model 11 is a bottom-loading gun, the cable was led along the edge of the receiver, clearing the loading port. A steel clamp block, milled to contour, was screwed to the receiver with two 6 x 48 gun screws. If the one-handed shooter desired to sell the weapon later, these could be inconspicuously closed by blind screws. With a trigger shoe pinned to the trigger, the piano wire was led

to this shoe and, through a tiny drilled hole, set-screwed into place.

The final problem was to weld a small grasping hook onto the trigger guard. This was for the prosthetic hook to contact. It gave the right arm a degree of control and "feel" in handling the gun, but prevented the hook from interfering with the trigger functioning now that this had been changed to left-hand forearm operation. The hook could later be easily removed by grinding, and the original trigger guard reblued if the gun was disposed of.

Shooting tests of this modified Remington were pleasantly surprising. The vertical foregrip seemed to minimize the extra forend weight. After the test shooters got accustomed to triggering shots with the left hand, the gun was easy to use. Our now-ecstatic one-handed hunter hated to relinquish his new prize for the final steps of polishing and bluing, but the end results made him glad he had waited.

Should other shooters have similar problems, remember that ours may not be the only nor indeed the best possible way to solve them. But ours works, and has held up well in the field. It's a guide to solving the dilemma of a shooter who has no shooting hand. And don't overlook the good feeling that is yours when you have been instrumental in helping a handicapped brother hunter back into the field.

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FIREPOWER FOR FOOT-SOLDIERS

(Continued from page 29)

360-degree circle either free-swinging or by knobs according to a precise mill scale.

In the M60, many faults of our older "Browning lights," the M1919 and A6, have been corrected. The 23 pounds includes an adjustable bipod. The Bren-type carrying handle is right over the balance point, where it belongs. Stocking and sights are excellent. I settled behind the stock in prone and pressed the trigger for a 40 round burst. The shots made a comfortable chug-chug-chugging and with no kick or bounce, the string went ripping into the backstop. The combination of flash hider and high sight line, plus the straight line stock and low (550-600 rounds per minute) rate of fire gives the gunner full control over the burst.

Designwise, there is very little that is new or startling about this gun. Automatic weapons engineering today is mostly a matter of selectively pirating existing systems, combining them into a working gun, and then endlessly testing and retesting.

In the case of the M60, the parents and grandparents are easy to spot. It is basically a Lewis action, but front locked as in the FG42. The quick barrel change feature owes much to the MG34, as does the belt feed system. The receiver group, with its stamped and welded bolt raceway, is right off an MG42. If this cataloging suggests that machine gun design is a simple matter, remember that specifications for this gun were originally laid down in 1935-1938, and design testing has been almost continuous since that time.

The really interesting thing about the M60 is the manner in which it points up a division of fundamental tactical thought between the U. S. and every other major power. The M60 is a light general purpose machine gun but, in the European sense of the word, not a true light machine gun.

The distinction has less to do with poundage rather than with projected tactical use. British and German arms research in the period between "The Wars" concentrated not on an adequate semi-auto rifle, as in America, but on developing a squad base of fire in the form of a 25 pound light machine gun. In Britain, this became the Bren; in Germany the MG34 and MG42. Like the M60, all three of these guns were conceived as general purpose weapons, to be fired from bipod or tripod, in fixed positions and in the attack.

The most successful of them, the MG42, resembles the M60 in method of manufacture, speed of barrel change, belt feed, and weight. It differs mainly in its extremely high rate of fire, 1200 rounds per minute. This high rate is a distinct advantage for a gun primarily intended as a squad weapon, around which the riflemen maneuver. "Targets of opportunity," small groups of individuals at medium to long range, are covered by a hail of MG42 bullets before they can take cover, the way a shotgun pattern covers a bird.

The American army has always insisted that the individual riflemen is the proper base of fire, and demonstrated that the M1, backed up with a sprinkling of BARs, can balance an LMG equipped opponent. The objections to the squad LMG are that it and its crew is vulnerable to enemy counter-fire and that the gun itself is too heavy to keep up with the riflemen.

The M60s low rate of fire, 550 r.p.m., sacrifices the shotgun effect of the MG42 to qualities more desirable in a fixed defense gun: conservation of ammo, mount steadiness, accuracy, and long barrel life. The M60, according to policy at the time we tested it, will be issued two to a platoon, forming part of the weapons squad along with rocket launchers. It is in fact a heavy machine gun so lightened that it can perform some LMG roles, rather than an LMG adapted to defense uses. The M14 full auto shoulder rifle will assume some of the tactical function of the LMG once served by the Browning Automatic Rifle. At present, none of the heavy barrel BAR-like M15s are being ordered. The M14 rifle paired with the M60 general purpose machine gun will do the job.

In addition to traditional American attitudes towards the LMG, two other considerations must have effected the design of the gun. The first derives from the problem of stopping mass attack of the "human sea" variety so effectively employed by Communist Forces in Korea, and by Russian troops. The M60 is a better gun for this purpose than the MG42. The other consideration is current U. S. thinking on the role of fortress defense in atomic war, where fast air transport of attack will make every air strip, military depot, population center, or missile base, a potential front line position. A group of M60s, carefully dug in and with interlocking



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zones of fire, will be a cheap and effective stop to operations "behind our lines."

During acceptance tests, the M60 fired 20,000 rounds in one-hundred round bursts, with one minute cooling between bursts. This is the same test as a watercooled heavy MG must pass. Although the barrel was originally planned for "quick take down" to switch to a fresh barrel when the first became overheated, the test revealed this was not necessary. The first 9" of bore is of Stellite, an alloy developed by Haynes Stellite Co. of Kokomo, Indiana, which has high erosion resistant properties. At incandescent heat, the Stellite rifling still carried the load. It did not wash out. Use of this metal plus Congressional thrift on research terminated further design on the barrel group, although it is not the best quick-change barrel on a gun in use today. Bipod and gas cylinder group all are integral with the barrel, must be removed with it. Since the new barrel needs an identical fitting, extra cost and weight result from this design. The word from Ordnance is, that with the Stellite lining, barrel life is so satisfactory there is no point in redesigning the assembly, while practice in the field suggests the gun will be treated as a fixed-barrel arm.

To change barrels, I cocked the piece, set the swinging thumb lever on the left side of the pistol grip to safe, and hit the barrel catch lever on the right side of the receiver. A friend who helped me in the shooting, but who would ordinarily be the assistant gunner, grabs the bipod (the barrel itself is HOT) and pulls barrel group including bipod and gas piston assembly out the front of the gun. Inserting a second barrel, one merely flips the latch and the gun is ready.

The buttplate, feed cover and pistol grip are covered with neoprene, protection against accidental freezing contact of skin against metal.

Breakdown for field cleaning requires only a cartridge as a tool. The catch on the butt group can be reached by the bullet point, releases the butt which slides straight back. The double-wound springs, heavier and longer-lasting even than MG42 springs, can be removed. The bolt assembly and gas piston can be removed from the back, after relieving buffer pressure upon a vertical cross plate. With the plate pried up by a cartridge as lever, the back of the receiver is open for complete stripping. The trigger

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(See also Cover 4, pages 10, 15, 51, 54, 57)

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and grip removes by un-springing a flat retaining plate, freeing the cross pins, much like the earlier German designs. Sights are 100 meter minimum, and then graduations in hundred meters from 300 to 1200 meters.

Training will dispense with fire from full defilade; that is fire directed over the heads of our own troops from a rear position hidden from enemy observation.

The new training table will require firing from bipod, tripod, hip and the shoulder without mount in kneeling and standing position. In the latter positions, the new cardboard 100-round belt container will be used. The total package will weigh about 32 pounds—not easily held and, it would seem, oddly uncompetitive in terms of most firepower for least weight, with some other I.M.G.s available which in a similar fitting firing from a 250 round back pack weigh not more than a good target rifle held at the shoulder.

The M60 uses the captive gas piston assembly effectively and efficiently.

"THEY SAID WE COULDN'T DO IT"

(Continued from page 36)

Starting in 1956 with the time-tested swing-arm feed, Crosman engineers undertook the task of devising a reciprocating CO₂ hammer cylinder that would meet extreme performance standards. The goal they set for themselves was—100,000 rounds without mal-function.

An entire segment of the Crosman Arms engineering and technical section was instructed to go all out on a crash program. Within the next four years, many models were designed, tested, and discarded. But

like the M14, a minor help in training. In manufacture, if quantity production is expected, it should be hardly more expensive to make than an M1 rifle. The receiver forging is a simple figure 8, about two inches long; the top holds the barrel and the bottom, the operating rod. Some of the smaller parts are powder metal, and investment castings would simplify production of many parts. The bolt raceway, feed cover, buttstock and fore-end, bipod and pistol grip are all stampings.

Considered as a member of our new family of weapons, the M60 with its steady stream of "hot lead" will supplement the splutter of fire of our M14s. It will be used more in the assault than our Browning Lights were, and there will, we hope, be more of them. At least lighter than its predecessors, though perhaps not so light as it could be and still be durable, this rugged, accurate scattergun is a welcome addition to the Arsenal of freedom.

each hand made unit was an improvement of the previous prototype.

Extensive field tests involving civilian and military personnel were conducted in 1957 and 1958 at the Camp Perry Matches, National Rifle Association conventions, numerous regional pistol meets, and at sporting goods dealer shows throughout the nation. Each new and improved model incorporated the recommendations of gun experts and top shooters, and the Crosman semi-automatic, (already being called by its makers "The Pistol of the Champions") was being



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regarded by shooters as the pistol that might make champions.

By early 1959, the long-sought mechanical action had been perfected. The Crosman semi-automatic had withstood all the severe tests and punishment that especially designed automation equipment could produce, and was designated Model 600. There now existed a smooth functioning gas-operated semi-automatic capable of being recocked and loaded as quick as a blink of the eye... actually ten shots in two seconds with no damage to delivery of the pellets. Achieved, too, was an exhaust valve which dumped the CO₂ after forty shots, thereby assuring consistent gas power control.

Next, outstanding metallurgists and leading suppliers of prefabricated metals were consulted and assigned the task of developing especially processed metals and methods of manufacturing for the 86 component parts of the semi-automatic. Parts quality and performance were to be foremost. At the same time, the finished cost of the completed semi-automatic was to be within reach of all shooters—in must sell for less than thirty dollars.

The metal experts responded by creating a die-cast of the total gun frame. This achievement, with the many complicated and concentric parts, was not only a "first," but a casting phenomenon. The intricacies of the die casting eliminated many secondary machining operations and improved tolerances and surface finish. In addition, the physical properties of the alloys in the castings contributed considerably to the fine balance, sturdiness, and pointability of the semi-automatic.

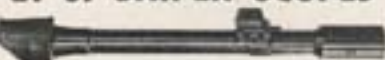
The know-how of the Crosman Arms engineers, and the miracle of the metallurgists, created the first successful CO₂ pellet gun semi-automatic. Now, shooters can practice with top target accuracy, slow, timed, or rapid-fire, within the confines of their home or limited areas, for less than a penny a shot.

This can be said about the "pilot" test guns sent to GUNS for testing: they work. Part of our test firing was done (deliberately) in a room of our editorial building, with the door open. There was no disturbance of office routine; few people knew anything unusual was transpiring. Accuracy was excellent (exactly equal, so far as we could tell, to the ability of the shooter). And the auto-loading action worked without malfunction, smoothly, as long as we continued to fire them.

No function tests we could give them could compare, of course, to the torture-tests already given them at the factory. Crosman's "automation test equipment" puts these guns through long periods of rapid-fire operation at the rate of 4,320 shots per hour. The rate of speed can be raised to 180 shots per minute—three shots per second—and the guns take it.

Perhaps as great a miracle as the engineering behind the Model 600 is its price—\$27.50 retail. It's a lot of gun for that money.

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MODEL 32 NOW AVAILABLE for skeet and trap gunners, as well as upland gunner who wants quality combined with right basic design and fast-handling feel. Manufactured by Krieghoff in Germany and distributed by Europa Corp., P. O. Box 47-576, Miami, Fla., Model 32 sells from \$340 Standard to \$850 Monte Carlo grade with superior selected woods and massive gold inlays. Guaranteed against defects of workmanship or material. Barrels 26½ to 30 inches, vent rib, white bead sights, single selective trigger. Descriptive folder on request, or see the new Krieghoff Model 32 at your dealer's.



BOLT-ACTION RIFLES designed for 22 caliber rim fire Magnum cartridge available from O. F. Mossberg & Sons, Inc., New Haven, Conn. Designated as the 620K, a single shot, and the 640 K, a 5-shot clip repeater, rifles are "Chucksters." Barrel of special, high-strength steel, receiver and bolt are extra heavy and double extractors are provided. Deluxe features of 620K and 640K are special satin, non-glare finish on receiver, breech cap, rear sight and matching trigger guard. Sights are "U" notch at rear of barrel with adjustments for windage and elevation

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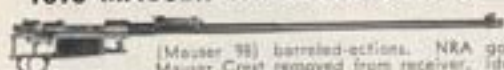
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WORLD'S BIGGEST GUN MUSEUM

(Continued from page 26)

glass dome of the roof are displays of armor and rifles grouped in such profusion it staggers you. Weapons finding eager bidders at sales, rifles and muskets which the collector wishing to sell at a gun show may barely unwrap before he has a dozen offers, cavalry and dragoon pistols that decorators stick customers fabulous prices for, are here grouped in vast quantity as thick as flowers on wallpaper.

Three long curving halls extend away from the entry area, acres of weapons in glass cases or, for cannon and machine guns and other heavy gear, placed artistically so as to permit aisles and paths for the visitor, but right out on the floor accessible for study. While there are the usual "hands off" signs and individual cannon may be roped off to prevent prying fingers from taking home the breech blocks, the brown-uniformed Belgian soldiers who stand quietly on guard will not stop you if you merely want to take a closer look. But so fine is their capability as guards, that even during the 1939-45 war (relics of which fill acres of a new hall toward the far end of the building) the occupying troops both of Germany and later of Canada and America did not get away with anything. Oddly, the Germans during the occupation removed rifles of the French Lebel Model 1886 pattern—why, has always remained a mystery to the museum staff. Otherwise, this magnificent collection remained intact. The Germans left behind in surrendered rifles, pistols, machine guns, vehicles and fighter planes far more than the paltry few French Lebel they took. Indeed,

successive wars which have devastated little Belgium have contributed richly to the completeness of this indoor field of Mars.

To the purist gun collector the Technical Department holds maximum interest. It is the middle of three curved halls leading away from the French-Austrian rooms, and contains a very complete series of all the firearms of all the nations, from flintlock to the most recent machine guns. There is a group of edged weapons, sabers and lances, miniature battleships and naval vessels, and models of artillery which have been used in the Belgian army. The Library is also huge, on the specialized topics of weapons and warfare. It is a rich documentation of combat from the 18th century to date, and is well known to the universities of Europe whose students often travel many miles to examine some volume which the Brussels Army Museum alone may possess.

In walking on fast-aching feet through these acres of arms I saw many unusual items. One case in the Fifth Hall had flags, uniforms and many articles associated with Germany in WWII. But hardly noticeable on the floor of the case was a gray-steel P-38 auto pistol, perhaps Walther or Mauser make, with an odd barrel about 1" in diameter. The caption was inconclusive—the pistol looked "factory original" and seemed to be a silencer model, a hitherto completely unknown article for the American automatic arms student. In a chamber dedicated to the World War, among various early anti-aircraft machine gun mounts, were several cones carrying Model 1879 Hotchkiss Revolving Cannon mounted as balloon-busters! These 37mm naval and assault artillery guns, retired after 1900, were dragged out and placed again into service to combat the Zeppelin menace, the world's first rapid fire Ack Ack.

Some idea of the magnificence of this museum may be gained from the fact that originals of military monuments are also preserved here as curiosities. The huge "Boar of the Ardennes" erected near Bastogne in memory of the Allied fighters who fell there in 1944 in the Battle of the Bulge, is an heroic monument of granite with a bronze boar on top. The American paratroopers who fought and whose comrades fell there can see in the Army Museum the original of this great work, plus hundreds of arms and battle relics from this great engagement. The student of Nazism, that black period of modern history, will find here preserved the trappings of barbaric splendor that marked that movement: swastika flags and banners of the "Standards" and other legion-like units of Nazi Party military organization. Here too are the daggers, the insignia of rank, the dread death's-head badges of Das Schwartz Korps and other SS outfits. And for the more scientific minded, V-1 and Tiger tanks are poised as if ready to roll or for flight in the final room, the Eighth Chamber. In this long hall which lies to the right of the entrance on the floor plan, but which can only be reached after a long hike through other halls, is one of the outstanding exhibits of the museum, not often shown to the public. It is a monumental painting on canvas, Battle of the Yser River, by Alfred Bastien. This huge picture, fifty feet high and 350 feet long, took five years to paint. The painting's sections were brought

into the museum by a special railway spur. For decades the task of arranging and preparing these tons of munitions has been the lot of Louis Leconte. Founder and Conservateur (director) of the museum, his bronze bust now guards the entrance to one huge skylighted room filled with captured German trophies.

The Kingdom of Belgium is small. But its people have always been noted for their industry and energy. The extensive arms trade flourishing at Liege since the 1400s plus the shipping facilities of its great ports of Antwerp and Ostende have all made Belgium a rich prize of war. Hence the warring nations of Europe have often waged their battles on its soil. The great Napoleon met his end at Waterloo, and the trophies of this era, magnificently chased and inlaid duelling pistols, drums with the insignia of regiments of past glory, banners and battle flags torn by the blasts of war, all mingle into one vast archive of history to make visiting the Brussels Army Museum an unforgettable experience for the arms man.

HAND LOADING BENCH

(Continued from page 13)

Machines are shipped adjusted for a given load. Those bought by mail will not have the plastic shot and powder hoppers installed. They are a very tight fit, difficult to insert by hand. I slightly beveled the inside hopper edge with a sharp knife, and set it in place. I put a block of wood on top and tapped it with a hammer. Both hoppers drove home pronto. This tip should be in the directions. Screws hold the hoppers in place, but are hardly needed when they fit this tightly. The size die is not highly polished, but slicks up after a little use. When new, use a bit of lanolin or case lube on a few shells. This isn't necessary after a few loads, as paper shells are waxed, to serve as a lube.

Extra die sets (less charge bar) are made for 12, 12 Magnum, 16 and 20 gauge at \$14.00. The DL-100 Loader has many features of the DL-200 Loader that sells for \$99.75. Both are manufactured and wholesaled by Western Gun & Supply Co., 3730 N. 56th St., Lincoln, Nebraska.

.44 Load Addenda

Some comments were received on the velocities noted in my last column on hand-loading for the .44 Magnum. The 2,000 f.p.s. with Jugular bullets is technically correct. All the Jugular ballistics are somewhat misleading. They were obtained in laboratory pressure barrels of minimum dimensions. The actual velocity of all these loads will be lower in your revolver due to gas leakage between the barrel and cylinder. Larger dimensions also reduce velocity with any load.

Standard .44 factory loads are published about as per this table:

.44 Magnum Ballistics

	8 3/4" Bb	6 1/2" Bb	4" Bb
Muzzle Velocity, fps	1550	1470	1360
Vel. 50 Yds	1340	1275	1190
Vel. 100 Yds	1170	1120	1060
Muzzle Energy, F.P.	1280	1150	985
Energy 50 Yds	955	870	755
Energy 100 Yds	730	670	600

Hercules and H. P. White labs use tight pressure barrels about 8" long, supposed to equal 6 1/2" revolvers, but don't. Even different revolvers with identical loads vary over 100 fps.



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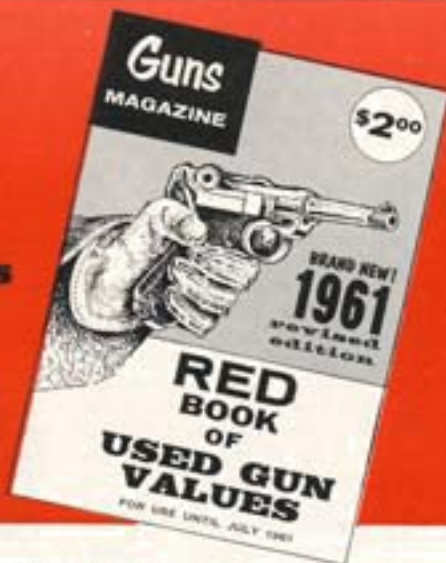
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PULL!

(Continued from page 14)

The Fall Creek Valley newsletter paid tribute to an often overlooked but very important part of a gun club, the trap help, with this item:

"We want to extend our congratulations to a boy who has been associated with this club since it has been in existence. He's loaded traps and/or scored at almost every shoot we've had. A fine 'broth of a lad' and a good-lookin' son-of-a-gun, too. His name, Conward Bivens. Last month Conward won the Indiana State Wrestling Championship and was voted the 'Most Outstanding Athlete' at the meet. Conward has suffered but one defeat in his last two years of competition and, aside from his wrestling ability, has earned quite a name for himself on the football fields around Indiana. We are all very proud of Ol' Conward here at Fall Creek Valley and will be looking forward to his further achievements at the college level a couple of years from now. So be careful now, all of you trapshooters. When Conward says 'lost,' you'd better listen. . . ."

The gun club which will give its faithful workers a little recognition from time to time is most certain to enjoy good help and smoothly operated shoots. And, it costs so little.

Another gun club using a newsletter to good advantage is the Waukesha Gun Club, in Wisconsin, one of the nation's most active and best operated gun clubs. The Waukesha bulletin, edited by the great Vic Reinders, is full of helpful information, as might be expected.

Does your gun club keep its members interested and informed via newsletter?

ANGLES AND STRAIGHTAWAYS

Richard M. Hartz, who operates The Cabin Range, near Lockport, New York, writes that four years ago, he started a small gun shop as a sideline. Next to the gun shop he erected a rifle range, and also did a lot of clay target shooting with hand traps. This went over so well that last summer he put in a regulation skeet field. Last fall, he ran over 150 skeet rounds per week, so now plans to add two more skeet fields, a brush walk, and clubhouse.

Congratulations to Dick Hartz! Build a better mousetrap or gun club, and the world will beat a path to your door.

Bill Sager, who owns the Skyway Cafe and Gift Shop, out at Custer, South Dakota, writes with another problem. Bill asks how you maintain year-round shooting interest at a gun club. I have answered Bill, and perhaps some of our readers will want to add their ideas.

Bill also writes, "We haven't been organized long enough to get the publications on the various shoots around the area or the country. We would like to get in on this mailing as we have several fellows who would like to take in some registered shoots."

Gun club secretaries, will you please add Bill Sager's name to your program releases?

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NEW TARGET FOR DA GUNNERS

(Continued from page 22)

A little more straight back pressure on the trigger, the tip braced against the "stop," would let-off the shot with no jar.

For short-fingered gunners, the special Roper stock presented a smooth surface for the tip of the trigger finger to slide on. Warned that the trigger was near the end of the pull by touching the stock, the shooter had merely to press straight back and deliver the shot without that score-wrecking jump. Roper grips are no longer made, but modern grip makers know the secrets of his style.

The most natural trigger squeeze for DA firing is to rest the trigger in the first joint crease of the trigger finger. Unlike slow-fire single action "touch off," it is wise to use any part of the trigger finger which feels most natural, causing the least effort to pull the trigger. To build trigger control, practice dry firing a lot so the muscles in that finger will become accustomed to the pull. Muscles in fingers and hand must not tire or cramp if you are to do effective shooting.

Point shooting, double action accuracy without sights by "feel," is the most popular practice. Trigger squeeze in this phase is just as important as when using the sights, so special grips can be an aid. This type of practice will teach you to shoot quickly, and hit.

The FBI point shooting stance is a crouch, the gun held out front with elbow often braced a little toward center from your hip bone. Others shoot effectively by holding the wrist of the firing hand tight against the hip on that side, or by holding the gun with both hands.

In holding the gun in front, you must train yourself to bring the pistol back to point of aim after each shot, countering recoil. When holding the wrist of the pistol hand against your hip, you will be able to deliver six fast shots into a small target area simply by using pressure and arm muscles to control the recoil. Lastly, the two hand method makes available even more body strength to hold down recoil, like holding the gun in a vise.

Invention of this two-hand system is credited to Army Captain W. H. Sweet, and is regularly taught in some police departments today. It is a good style for the wearer of a shoulder holster, or belt cross-draw holster. For this sort of rig a variation can be used:

Draw the pistol from the left-side cross-draw holster with the right hand in the usual manner. Instead of extending it in front of the body, hold it close against the left hip. As soon as the gun is clear of the

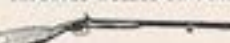
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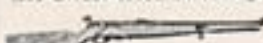
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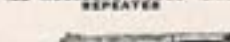
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holster, bring the left hand to steady the pistol by gripping it around frame and guard. Pull both hands in tight against the side or hip, near the holster, waist high. To bring the gun into action, swivel your hips so your left side faces the target, gun level and pointing true. In this hold as in any other, a smooth controlled trigger pull is essential to resist flipping the muzzle off target.

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ELMER KEITH SAYS

(Continued from page 9)

left eye, went through the skull, and broke the left shoulder, lodging under the skin perfectly expanded. It seems a very wicked little cartridge to penetrate so well in tough mountain lions, and Jack Nancolas likes it. So do I; but for big cats like these, I would much prefer my .44 Magnums.

Ruger Single Six .22 WRF

I have Ruger Single Six .22 L.R. serial No. 15 and Bill Ruger has just sent me another Single Six in .22 R.F. Magnum, 6½" barrel, serial number 300015. (Judging by this huge number, the single action is not exactly dead!) The new gun shows improvements over the early one in several ways. One of the main improvements is a good, practical loading gate. The finish and fit of

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straps to frame is also much better.

The new gun was given a 14" twist to better handle the .22 Magnum ammunition, and an inch longer barrel to better burn the powder. It burns enough to give the little 40 grain jacketed hollow soft point 1550 feet velocity, but it still leaves unburned powder in the bore and around cylinder. Hammer-draw artists wanting to use this gun as an understudy of their big center fire S.A. guns can do so, as it is almost indestructible.

The Winchester 1960 Seminar

From Jan. 26th through the 29th, Winchester-Western brought a group of gun writers and editors to Alton, Ill., for their first Seminar. They also brought the heads of their own various sales, promotion, and engineering departments. For the first time in history, a great arms and ammunition company has seen the need of an annual get-together of their own technicians and salesmen with the top arms writers and authorities of the nation. Of the many invited, there were but two cancellations.

It was a great get-together. Neither side pulled any punches. The Winchester-Western boys gave us all the dope on their new arms and ammunition in a clear, concise, and well organized manner. They told us of their problems of manufacture and development, their headaches and successes. We in turn gave them all the dope we could on the practical application of their arms and ammunition in the game fields. I believe everyone present benefited from the meetings.

We missed General Hacher of the "Rifleman," and Lucian Cary of "True." I was the oldest writer-editor present, both in years and in length of service in arms writing. Jim Clarke of Winchester beat me by one day for the honor of being the oldest man.

The evening of the 26th, we had cocktails and dinner at the Stratford Hotel in Alton. The 27th, breakfast and a three-hour session from 9 A.M. until noon on all new Winchester arms and ammunition. The afternoon of 27th, we were driven to Nilo Farms at Brighton, Ill., for a pheasant shoot. We were teamed in groups of four shooters, each group with a dog handler and guide. We all shot the new Winchester Model 59 with skeet barrel, and heavy duck loads by Western of No. 6 shot. In my group, O'Connor and I were paired on one side of the dog, and Bill Edwards (Guns) and Bill Kelly of Winchester on the other side. The guns and loads functioned perfectly. Jack and I upheld Idaho tradition, as no pheasant escaped on our side of the fence. The birds were wet from an early morning wet snow and the going was slippery and heavy for both guns and dogs. The guides and dogs knew their stuff and the shoot was a great success. Never have I seen such beautiful cover for upland birds as at Nilo Farms. We were driven back to Alton for cocktails and dinner.

The 28th, after breakfast at the Stratford, we were again driven to Nilo Farms and enjoyed a very fine mallard shoot in the morning. The fat mallards came in over the trees and headed for a small lake below us and as they came fast and downhill, it was very sporting shooting. Bill Kelly and I were squadded together in a small blind built lengthwise of a deep gulch so we had time for but one quick shot as the fowl came over the trees and pitched out of sight behind the seven foot blind at our backs. I shot a

little magnum 20 bore Model 21 for this work, and had my four ducks down with six shots.

It was a pleasure to watch the work of the eager but perfectly trained labradors. I also got a kick out of the ducks, as every one that ran the gauntlet would start quacking when he landed in the lake to tell all his friends he had made it. I could see little difference between shooting passing mallards at Nilo, or the Palisimeroi or Lemhi valley mallards here in Idaho. It was a great shoot.

At noon, we were served a wonderful baked pheasant dinner with all the trimmings at the club house on the farm. In the afternoon, we shot quail over some wonderfully trained dogs. Each group of four men would take in the aggregate 21 to 26 quail and from two to five pheasants, and we all had a wonderful time. On the quail, two men moved up to the dog whenever he went on point. On the next point, the other two would move up for the shot. They were fat heavy bob whites and very nice sport.

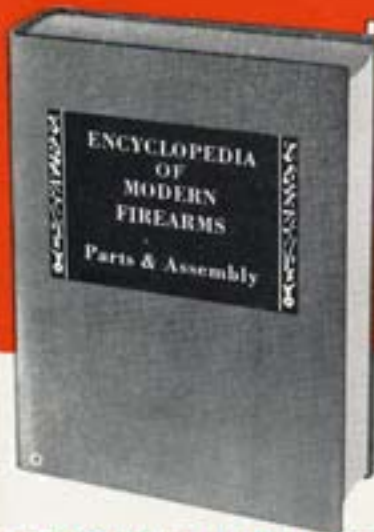
That evening we had cocktails and dinner at the Lockhaven Club, then returned to the Stratford for the night. Our game birds were later sent to us packed in dry ice by air express and arrived in perfect condition for the table.

I saw Jim Clarke make a nice double on quail, but missed the only chance I had for a double; I missed my second bird. I was told that Pete Kuhlhoff made a triple on quail.

The shoots at Nilo were perfectly managed and ran without a hitch. Everyone present had ample opportunity for some excellent wing shooting. The program at the hotel was handled equally well by Bill Talley, Jim Rikoff, John Dear, Jim Clarke, Tom Henshaw, Bill Woodring, and others. In a lifetime of hunting and working with guns, I have never enjoyed the companionship of a finer group of gunmen. After breakfast the morning of the 29th, we regretfully parted company. The first Winchester-Western seminar was voted a success by all present.

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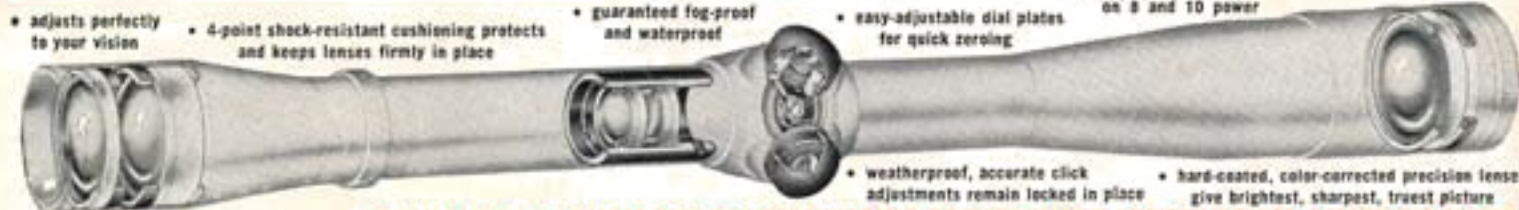
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