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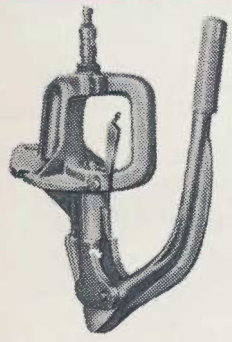
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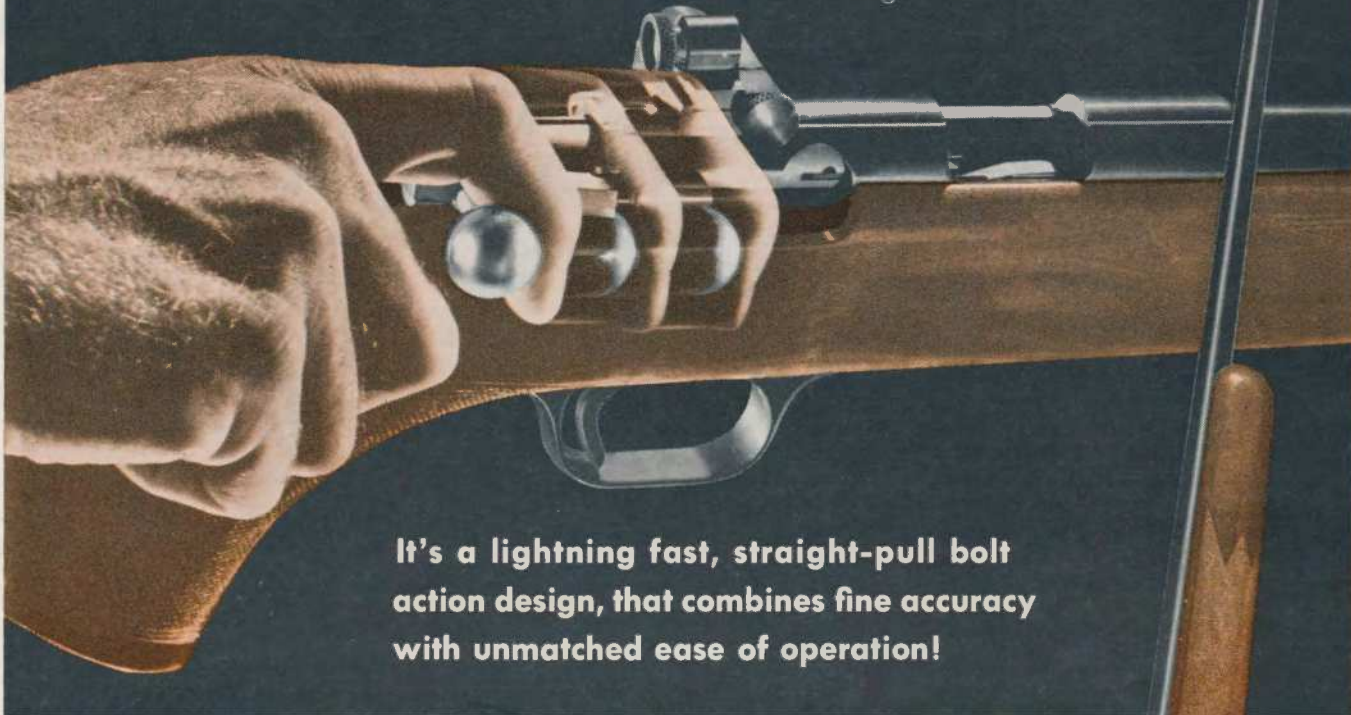
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TRIGGER TALK

AS THIS IS WRITTEN, we are in the midst of the vacation months, with the peak months of July, August, and September yet to come. Whether your vacation period is several weeks or only several days, it might not be a bad idea to use whatever spare time during your vacation to help support the shooting sports. You can do this by attending what ever gun activity interests you the most—a smallbore rifle, big bore rifle, or handgun match, or a collector show. Your very presence will help those who are sponsoring the event feel that we have not given up in our attempt to keep the shooting sports alive.

This might also be a good time to pay a visit to your local gun shop; to have your hunting rifle or shotgun cleaned and adjusted before the season, and to see what's new in the way of guns and accessories.

In this issue, we welcome back the excellent writing of Jim Serven, who tells us of the percussion guns designed to shoot several rounds from a single barrel—the Roman Candle Guns. George Virgines writes of the least known of law enforcement agencies, the railroad police, and Bob Steindler tells of his extensive testing of rifle and shotgun barrel inserts.

Quite frequently, we get letters asking for reprints of our covers, without type, so that they can be framed. In this month's color gallery, we have done just that. The pair of flintlock pistols appeared on our cover in April of 1961. If you have a favorite cover you'd like to see reprinted without type, let us know, and we'll try to work it into our color gallery.

The two page spread in this month's color gallery is, again, a superb drawing by artist James Triggs, and it is backed by a vivid color photo of a great pair of wheellock pistols taken by Harry C. Knode.

As this is written, Washington gun legislation is not moving. However, there is still another threat to gun ownership—perhaps even a greater threat—and that is the growing number of state and local anti-gun laws. E.B. Mann writes about these laws, and how to combat them, in the next issue of GUNS Magazine.

THE COVER

One of the things you'll see if you visit your local guns shop is the new line-up of Winchester Model 70 rifles. We've got them lined up on our cover, but you have to hold them to appreciate their qualities. From left to right: Standard, Magnum, Varmint, Deluxe, Target, and African. These are the models, and they come in eleven different calibers. Photo courtesy Winchester-Western.

SEPTEMBER, 1966

Vol. XII, No. 9-141

George E. von Rosen
Publisher

Arthur S. Arkush
Ass't to the Publisher

Guns

FINEST IN THE FIREARMS FIELD

C O N T E N T S

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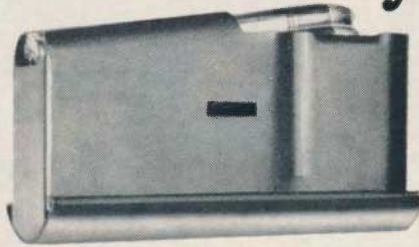


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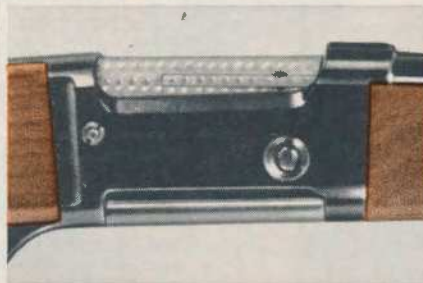
And even though it's one of the great rifles, it won't cost you a small fortune.

What could we do to improve it?

Our engineers designed a unique new box magazine. It preserves the classic lines of the 99 with no unsightly bulges or projections. Fits the hand smoothly for comfortable carrying. So now we're offering you a new 99—the 99-C with a removable box magazine, in addition to the other models with our traditional rotary magazine.

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The new magazine snaps into place. And ejects with a push of a button. It loads fast—you can carry this rifle safely unloaded until you're ready to use it.



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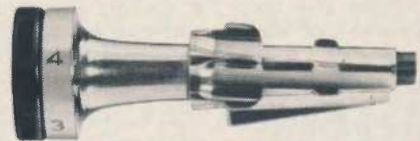
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News from the...

SHOOTERS CLUB OF AMERICA

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

Senator Dodd and his pals keep telling us, "There ought to be a law!" A federal law, of course, since they seem convinced that the states aren't capable of minding their own business. A law which would prevent crime by requiring that all firearms be licensed and that records be maintained of all shipments and sales; a law that would forbid the sale of firearms to "bad people;" that would ban the sale of fully automatic and other "gangster type" guns.

One of the amazing things about these people, these wise people who assume the right to rewrite the rights of the people they represent, is that they seem not to know the existing laws under which the firearms industry and the shooters of America have been operating for three decades. We remind them that:

The Federal Firearms Act of 1938, as amended, provides that (a) all manufacturers, importers, and dealers in firearms, handgun ammo, and components must have federal licenses, and (b) must maintain complete records of all sales and shipments of all firearms; that (c) no person may buy, sell, pawn or transport interstate any stolen firearm or handgun ammunition; (d) no person under indictment for or having been convicted of, any crime punishable by imprisonment exceeding one year, nor any fugitive from justice, may transport any firearm or handgun ammunition, or ship or receive any firearm or ammunition; (e) that no dealer, including mail order dealers, may ship any firearm into any state which requires a permit to purchase such firearm without receiving evidence that the prospective buyer possesses such a permit.

That covers a lot of what they say they want, doesn't it? But wait: The National Firearms Act of 1934, as amended provides, (a) that the maker of, or anyone who transfers any machine gun or any one of several specified types of non-sporting (military, police, or "gangster-type," weapons), must pay a tax and register such weapon with the Secretary of the Treasury or his representative. It stipulates (b) that the making or transfer (sale, gift, or otherwise) of any one of the following weapons requires payment of a \$200 tax and registration of the weapon: (1)

All fully automatic firearms; (2) All rifles with barrels less than 16" in length; (3) All shotguns with barrels less than 18" in length; (4) All firearms made from a rifle or shotgun and having an overall length of less than 26"; (5) All pistols with shoulder stocks and having barrels less than 16" in length; (6) All firearms with combination rifle and shotgun barrels less than 12" in length; and (7) All mufflers and silencers.

In addition, the following firearms require the payment of the federal tax of \$5 for each transfer; (1) All shot pistols or revolvers; (2) All firearms with combination rifle and shotgun barrels at least 12" but less than 18" in length; and (3) All weapons or devices (other than conventional pistols or revolvers) capable of firing a shot and capable of concealment on the person—such things as pen guns, buckle guns, "knuckle dusters," etc.

Each of these federal laws provides a maximum fine of \$2,000 or imprisonment up to five years. These are by no means all of the requirements, prohibitions, and limitations contained in these two Federal laws; but these cover all but one of the stated objectives of the Dodd Bill. They do not forbid the sale of guns to unauthorized juveniles.

We suggest that the existing federal laws, reworded for clarification and better enforceability, plus a provision against sale or delivery of guns to minors without proven authorization from parent or guardian—plus an added penalty clause (similar to the Bill offered by Congressman Casey of Texas), providing automatic punishment for the use of a gun in, or the possession of a gun during, the commission of a crime of violence—would accomplish far more toward the achievement of the aims of Senator Dodd and his group than any Bill they have offered.

We urge you to make use of the facts presented above in your next letter to elected officials, in a letter to your local newspaper, or in heated discussion with your local anti-gun bigot. And for a complete arsenal of pro-gun information (yes, you'll need it, for though Senator Dodd is down, he's not out yet), join the S.C.A. today!

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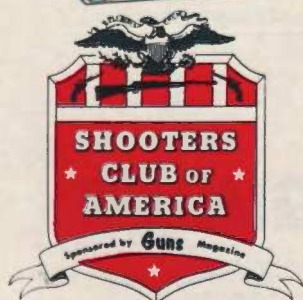
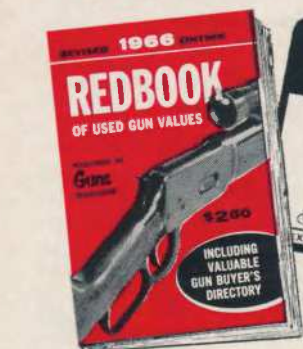
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Robert Stack says —

"No point in paying a lot for a shotgun when this 500 does the job so well."

Robert Stack, famous Hollywood star and National Skeet champion, gave us an expert's opinion of the Mossberg Model 500 pump action shotgun. He was elated with it.

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GUN RACK



By R. A. STEINDLER

Weatherby Scope

As expected, Roy Weatherby introduced a .22 scope for his Mark XXII rifle. The first thing that strikes the eye when you look at Mark XXII 4x50 scope is the dovetail mount that is integral with the scope's 7/8 inch tube. This gives the scope an elegant and streamlined appearance and, as with other Weatherby scopes that I have used or tested, optics are tops. The integral mount is not only eye-appealing, but scope installation is easy. Once put on the gun, this scope stays put. Scope mounting is accomplished with the help of an Allen wrench, and thus accidental loosening of the mounting screws is nearly impossible.



Windage and elevation have—believe it or not—clicks, and the clicks are for 1/2 minute adjustments. The 7/8 inch tube permits the use of somewhat bigger lenses and this translates into somewhat better optics. Only crosshair reticles are available and these subtend 1 inch at 100 yards. The scope passed all lab and field tests and is an excellent buy at \$29.50.

Tradewind's H-150 Shotgun

The H-150 is the basic model in the line of autoloaders imported by Tradewinds, Inc., Box 1191C, Tacoma, Washington. The internal design of these autoloaders has been improved quite a bit and the number of working parts has been reduced so that practically all possibilities of function failure have been eliminated. My test gun had a 28 inch modified choke barrel without the ventilated rib and it shot patterns with factory and hand loads which were completely acceptable. The H-150 is available with a wide choice of barrel lengths and chokes, and the H-170 model differs only in that it comes with a ventilated rib. These autoloaders come only in 12 gauge, chambered for the 2 3/4 inch shells. The H-150 model retails for \$159.95, the ventilated rib model for \$179.95.

For the 1966 season, Tradewinds will also offer the Model D-200, and this Deluxe version will have an engraved receiver and

ventilated rib; retail price will be \$224.95. The T-220 is the trap model of the same gun. It will come with engraved receiver and vent rib and will retail for the same price as the D-200. The B-180 Deer Gun is choked IC, has a 22 inch barrel and rifle sights, with the receiver drilled and tapped for scope mounting. Price of this model has not been determined.

In firing tests, the H-150 functioned perfectly excepting when handloads which had not been sized properly were fed into the magazine on purpose. When the same shells were sized, the gun digested those loads without failure or trouble. The test gun weighed just one ounce over 7 lbs. and take-down is quite simple. The fingerrail on the fore-end and the handcheckering, plus a good finish, give the gun a pleasing appearance. Extra barrels are available and give the basic model a great degree of versatility.

Venezuelan FN Rifles

We have just concluded our tests of a series of FN rifles being sold by Century Arms, 3 Federal St., St. Albans, Vt. These rifles were recently a part of a surplus created by the acquisition of new arms by Venezuela—the first time that Venezuelan arms have been offered in the U.S.

The first of these is the FN Model 1949 semi-automatic, chambered for the popular 7 mm Mauser cartridge. This is a gas operated autoloader that features a visible cocking indicator, action hold-open device, 10 shot magazine, and 23.2 inch barrel with compensator. Since these are used guns, the outside appearance was of secondary concern. The stock showed some nicks and gouges, and the metal parts lacked some bluing. However, the working mechanism and barrel showed the effects of reasonable care, and the overall condition of the gun we received was a bit better than the advertised "NRA good." Priced at \$69.50, this is a quality firearm at what we consider a reasonable price.

The bolt action guns in this lot were the FN Mauser Model 1924/30 in rifle (23 3/4 inch bbl.) and carbine styles (17 1/2 inch). The rifle we received is advertised at \$44.50 as a special selection. The metal showed no wear, nor signs of use, and the wood showed only

(Continued on page 70)

ORIGINAL CETME RIFLES



\$219⁹⁵

Scope Not Included in Price

FEATURES:
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 Materials: Finest selected steels, traditional wood stock.
 Number of Cartridges: 5. 20-shot magazines also supplied for target work. Price \$9.50.
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 Finish: Satin Matte anti-rust black.
 Sights: Open at 100 yds., adjustable peep up to 400 yds.

"... All CETME Rifles made for Mars are made in the same factory in Madrid in which this weapon was designed, to the highest specifications of the Originators, and not at a regular Military or Commercial Plant. Each Rifle is carefully proved by detailed physical and fluoroscopic testing, and the critical parts are gauged three times for dimension. All guns are fired to assure satisfactory operation under a variety of conditions.

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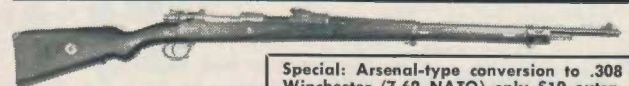
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CROSSFIRE

Error

As some of your readers may have pointed out, there is an error, which may through an oversight have been in the manuscript that I sent you, "Why Not a 16 Gauge Magnum?" The error occurs in the fifth line of the second paragraph in the third column of page 27. The sentence reads:

"In a 12 gauge the heaviest load available in the standard 2 3/4 inch hull contains 1 1/2 ounces of shot."

The heaviest load in this shell contains 1 1/2 ounces of shot, and the sentence should have stated this weight. Because it did not, the math involved in the sentences following the one in which the error occurred do not make sense.

With the exception of this error—which very well may have been of my own making—I thought the treatment of my story was fine, as was the entire issue.

B. R. Hughes
Texarkana, Texas

man says, "By mail order, there ought to be a law." All this was on a show that depicts a miscarriage of justice and a man the police can't catch.

Personally I don't think a network program should carry any assistance to Senator Dodd's aims. We all realize something has to be done about the teenage vandalism, but why should everyone suffer for a few? I say it is time for parents to grab them by the seat of the pants and let them know who is running things. I have no trouble with mine.

Also, Tide and Pontiac had better look to their laurels. After all, a lot of sportsmen use Tide and drive Pontiacs, anyway they did.

V. J. Bennett
Adrian, Mich.

Bond Goofs Again

I was a little surprised to find so many errors in the story you ran on James Bond's guns. Certainly someone goofed. The picture represented as Bond firing a Beretta shows a PPK. The Beretta .25 shows up in the first book, "Casino Royale," not "Live and Let Die," as was stated. I believe 007 sawed the sights, not the barrel proper, of the .25. This is only a guess, but he couldn't have very well gotten more than a few fractions of an inch of barrel without ruining the slide. The test results were those obtained by a Col. Allen, USAF, and reported in the American Rifleman. Why would a Colt .32 be easier to hide than a PPK? Also I, for one, find the .32 Colt harder to get a fast grip on than the Walther. Plus which the PPK is a double action arm.

This article unjustly blamed Geoffry Boothroyd for some of Ian Fleming's mistakes. Boothroyd wanted Bond to use a Centennial for close range work, and a .357 M 27 for long range. He liked the Berns-Martin holster, but for the Centennial. The last time I heard from him, Boothroyd had decided 007 could use a selective double action gun, and liked the Airweight Chief's Special. (Personally, I think a Bodyguard would be better, but that's neither here nor there.) I will say the PPK is a well-known arm, and a real life James Bond might very well use one. In closing, I cannot recall a P-38 in any Bond book.

James V. Williamson
APO New York

British Martinis

I read your article entitled "Single Shot: Rifle for a Real Hunter" in the April, 1966, issue of GUNS Magazine. I agree with your opinion on the use of old guns for hunting. Single shots and muzzleloaders do make the hunt more sporting. From your article, I quote "We have a good supply of "British Martini-Henrys and 7 mm Remington Rolling Blocks. . . ." Could you suggest or recommend a source for obtaining one of these?

Karl G. Friday
McHenry, Illinois

Golden States Arms, 386 W. Green St., Pasadena, Calif., and any of the dealers of used guns who advertise in this magazine are good sources for firearms such as these; write to them.—Ed.

The Fugitive

Tonight, April 20th, I watched a TV show called "The Fugitive." This show is sponsored by Pontiac and Tide. On this show they showed some unsupervised children pooling their money and ordering a mail order rifle. At the end of the show, a police-

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Panel of Experts

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

M-11 Varmint Rifle

Would a M-11 Garand Assault Rifle be a good hunting rifle? Around here I can't find one to look at or even talk about. It has a 20 round clip. Would that be illegal in hunting deer? This rifle has a 17¼ inch barrel. Does this cut accuracy too much?

My thinking is that this would be a nice carbine type weapon (about the size of the Marlin 336) and the semi-automatic feature would be especially good in hunting coyotes, that is, I could get in more than one shot.

But not having seen one of these rifles, what would be the drawbacks? Is it hard to unload when carried in the car? What other things might make it unsuitable for the type of hunting I might do with it? I would use it with open sights, no scope.

Claude H. Heyer
Pendleton, Oregon

Winchester 94

I recently purchased a 1894 Winchester saddle ring carbine. The gun is in perfect shape, while on the barrel is marked "NICKEL STEEL BARREL." Can you tell me what the value of this gun was when new and what the value is today?

H. G. Wells
Alexandria, Va.

The most popular deer gun ever made was the 1894 Winchester. A patent was granted in August of 1894 for the 94 Winchester. By November of 1894 the model of 94 was on the market in two calibers, .32-40 and .38-40, and by 1895 nickel steel barrels were made. Sale price for a 1894 carbine in and about 1900 was \$18.00. Collector's value for one in PERFECT SHAPE would be around \$150. By perfect shape I mean almost factory new condition.—R.M.

In most states it is illegal to use over a five shot magazine for big game hunting, but for varmint hunting, anything can be used. You will have to check with your local game dept. The rifle is heavy if you have to do much walking, and a scope is very awkward to use when one is mounted. They are selling for about \$100.—P.T.H.

Springfield Musket

I have a U. S. Springfield percussion cap muzzle loader in a .58 caliber. The barrel has rifling and has the date of 1864 on its top near the breech plug. On the side plate where the hammer is attached is the date of 1863 and the eagle with U. S. Springfield. On the stock near the trigger there are two imprints in the wood with initials in each imprint. Periodically while I am firing the gun, the bullet will not come anywhere near the target or the bullet will hit the target sideways. Why is this? How much and what type of black powder should I use? The hollow base bullet weighs approximately 525 grains. Should a lubricant be used and if so, what kind? I would also like to know the approximate value of this firearm.

Philip A. Criado
Polk, Pa.

Gunsmith License

I would like to know what laws govern gunsmith work and what type of work, if any, can be done for hire without any restrictions. If required, how and where may a license be obtained?

William H. Harrison
Glyndon, Minn.

With the exception of your federal firearms license, all other licenses depend on your local or state laws and you can check these out locally.—P.T.H.

The rifle-musket used a black powder charge of 60 grains of powder with a 500 grain hollowbase conical bullet. With your

(Continued on page 74)

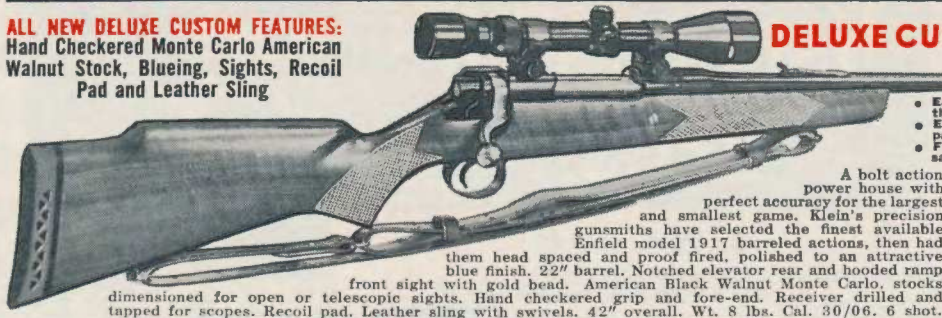
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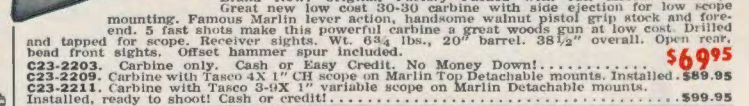
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HANDLOADING BENCH

By DAVE WOLFE

Editor and Publisher of
The HANDLOADER Magazine



SOONER OR LATER experienced handloaders are asked by their friends: "Would you mind loading up a couple of boxes of 'x' caliber ammo for me?" Most of us willingly comply to these requests, but I've always been a little leery of possible consequences. The biggest hazard, of course, is the possible accident that might occur—be it your fault or his.

Under no circumstance should you ever load experimental ammo for which no data are listed. I have had fellows ask me to use umpteen grains of such-and-such a powder, for they feel this load will give them higher velocities, or better accuracy, or less pressure. Without actually trying these charges in my own gun, I simply tell them that I do not want to take a chance on untried loads.

Naturally, you should always refuse to make up loads that are maximum or near maximum. Often it's impossible to determine the condition of your friend's gun; even if it's in top notch shape, there are too many variables to take a chance on excessive loads.

Right after World War II my father and I loaded practice ammo for most of the local police officers. For the most part, these were .38 Special, using 158-grain cast bullets and 4.5 grains of Unique powder. One detective, however, carried a Smith & Wesson in .44 Special caliber. He insisted his gun should be capable of shooting through quarter-inch boiler plate, and insisted that we increase charges of 2400 powder that would bring the desired results. When the loads became dangerous, or what we considered dangerous, we told the nice man to get his own press and dies—we didn't want to be responsible for making his wife a widow!

Another question arises when we sell reloads for profit. I've been told that this automatically puts us into a manufacturing category and liable for various taxes and federal reports. If there are any attorneys in the audience, would you help us out? For instance, are we breaking the law when we use our friends' brass and charge them only for the components? What if we use our own brass? What if the man has his own brass and components and we charge for our time?

These are all questions that handloaders should be able to answer—frankly I can't. And the questions become even stickier when we ponder the question of liability in case of accidents. Should we have labels to attach to boxes stating "not responsible for

gun damage or personal injuries?"

When we get answers to the above questions, they will be printed in this column. And if you have further questions along this line, fire them in—we should all know where the safe ground lies, and what chances we are taking when we try to lend a helping hand to our friends.

Ken Waters writes the following:

"Congratulations on taking over Kent Bellah's place on the Handloading Bench of GUNS Magazine, also, the position on the Panel of Experts. I have just read your reply to a Jordan I. Isilou regarding .44 Special shot loads, in which you tell him that you don't know of a commercial wad-cutter punch. Perhaps you might like to know that Belding & Mull carries a line of Osborne wad-cutters in .22, .25, .270, .30, .38 Special, .40, .44 Special, and .45 calibers. See the Belding & Mull catalog, Page 30."

Nuff said, Thank you, Ken.

By the way, I recently found a very accurate .44 Special load and spent a very pleasant afternoon plinking with my Smith & Wesson .44 Magnum. The load consisted of 248-grain lead bullets, Federal Large Pistol primers, and DuPont IMR 4227 powder—18.2 grains. Muzzle velocity was averaging 913.3 fps; pressure, according to my calculations, was approximately 13,000 psi.

I had tried this load several years ago and my notes indicated "a pleasant load to shoot and respectable accuracy." I simply loaded up three boxes to these specifications late one evening and a buddy and I banged away for several hours at targets and tin cans.

You may want to start out at 16.5 or 17 grains, using this same bullet, and work up to a load that is most accurate in your gun. If you have any Hi-Skor shotshell powder laying around, try 4.5 to 4.8 grains with the 246-grain lead bullet. This load will give less velocity but approximately the same pressure. Personally, I prefer the IMR 4227 powder for informal shooting sessions.

An old standby load for the .44 Special is 13.5 grains of Hercules 2400 powder, 245-grain bullet at approximately 950 fps. This was the load I used for several years in the early 1950's. For some reason I prefer my latest load of 4227; it seems to give better accuracy with less muzzle blast.

If you have been in the reloading game for any length of time, you probably have a 0-1 micrometer on your bench. This micrometer is something I consider a necessity for

(Continued on page 17)

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It doesn't take much to make the difference between a good looking rifle and a clunk—a grip angle, the turn of a radius, a single line. The author tells you what to look for, and illustrates his points with his own drawings.

RUGER'S REACTIONARY RIFLE by Roger Barlow
Here is the Victorian—an outstanding new single shot rifle built with the craftsmanship and elegance of a period long past.

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No rifles in history have been as controversial as those designed by Sir Charles Ross. Their triumphs on the target range were equaled only by their failures in combat.

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The weapons which were good enough for the Korean involvement and two World Wars have all gone by the boards (except the old, faithful .45 auto pistol), and our fighting men in Viet Nam carry arms we old GI's never dreamed of. This military authority describes them and tells you how they are used. Numerous illustrations.

THE DEADLY, DEPENDABLE DOUBLE by Elmer Keith
When the game is big and tough and dangerous, the hunter's thoughts always turn to the large caliber double barrel rifles. Keith tells why this design of rifle is his favorite when the chips are down.

WHY WON'T THE GI CARBINE DIE? by Ken Warner
Though belittled and laughed at, cursed and condemned, the M-1 Carbine just goes on and on. Battle-baby of a long-gone war, it's more popular now than ever before in its history.

GUNFIGHTERS OF THE OLD WEST by Norman B. Wilsey
Hickok and Hardin, Billy the Kid and King Fisher, Harry Tracy, Wyatt Earp, John Slaughter . . . and others, echo through Western shoot-out history, and here a top authority picks the deadliest gunslingers of all.

HANDGUNS—HERE'S HOW! by C. H. Mazzeo
Crystal clear information on the proper procedure to follow if you want to become a match marksman with the one-hand gun.

TESTFIRE! A FIELD SURVEY by Ken Waters
Actual shooting results with the year's new items, including the 6.5 Rem. Magnum, Winchester 66 rifle, H&R Ultra bolt action rifle, Browning T-Bolt 22 and many others.

THE JOHN BROWNING LEGACY—BLESSING OR BLIGHT? by Gough Thomas
Few shooters have had the temerity to challenge the genius of America's greatest arms inventor, but this one wonders if Browning led us in the wrong direction.

GUNS OF THE CANADIAN WEST by James E. Serven
Guns opened up this vast, beautiful wilderness 300 years ago, and it was guns, in the hands of soldiers and the North West Mounted Police that protected it against Indians and outlaws.

DREAM RIFLE by Tom Hayes
Hearken, hunters! Learn how a veteran deer-slayer saw the light—and you too can become a convert to the Philosophy of Unreality in the never-never Happy Hunting Grounds!

FROM OUT OF THE NORTH by Larry S. Sterett
A look at Gevelot of Canada, Ltd., the first ammunition manufacturer in western Canada, now turning out high-grade shotshell, centerfire and rimfire cartridges.

SHOOTING SHOT CUPS by Edmund Waters
Definitive answers on what you can expect in the way of improved patterns and extra ranging power when the various types of plastic cups are used in shotshell reloads.

FEATURE EXTRA THE THOMPSON SUBMACHINE GUN by Ray Bearse
A complete history of the fabulous "Tommygun." Made infamous by gangsters, but beloved by GIs and Marines, it was found on the front line of every war for three decades. A thorough researcher here tells its full story. Magnificent illustrations, exploded drawings, many by James M. Triggs.

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Antelope are often vague, skittery targets, taken at extreme range or not at all. Only the very best equipment will consistently produce trophies. This veteran hunter's views could well make even a neophyte successful.

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For too long, mountain lions, hawks, eagles, coyotes and other predatory species have been killed on sight. We're finally learning that most of these do far more good than harm. Let's hope we haven't learned it too late.

GAME FIELD GOOFS by Col. Charles Askins
A few lucky men spend their lives roaming the game fields of the world. Deadly are their rifles, tremendous their trophies. Unlike you and I, their printed accounts are true—they never seem to miss. Never? Well, hardly ever.

ARMCHAIR CHUCK HUNTING by George R. Phillips
Thousands of varmint shooters have beautifully accurate rifles chambered for hot cartridges, binoculars, spotting scope, etc., etc.—but few have reached the ultimate in luxury of these Idaho chuck shooters.

BIG DEAL IN NEW GAME by Byron W. Dalrymple
Chital, Oryx, mouflon, saouda, sambar—the names alone make a hunter long to take off for the African veldt or India's hill country. Yet now it isn't necessary to leave the U.S. to find this exotic game. Here's how, and where.

SLIDE ACTION RIFLES by Frank C. Barnes
Whether you call your pet a "slide-action," "pump" or "trombone," ultimately they all mean the same thing—meat in the pot.

SLUGGING FOR THE HIGH CLIMBERS by Alfred J. Goerg
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PRESSURE—POWDER—PROJECTILES by Warren Page
Pressure—gas, that is—makes the bullet go, but too much of a good thing can make the gun-a-go-go. This essay by a handloading expert tells how to recognize the danger signs.

PRIMER FOR VARMINTS by Joe Fargo
Background on the popular sport of varmint hunting, which now has over a million followers, along with comments on some of the most suitable rifles and cartridges.

COLT 1855 ISOMETRIC by James M. Triggs
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THE HANDGUN IN HUNTING by Harry P. Stubblefield
This Idaho guide carries a 22 pistol as routinely as he does his '06—and over a year's time uses it much more often. You might too, when you study his observations.

U.S. HANDGUNS 1966-67 by H. Warner
A close and critical look at the new guns and accessories offered to handgun fans this year, including our popular quick-reference Check Chart of specifications and prices.

U.S. RIFLES AND SHOTGUNS 1966-67 by Jay Charles and the Technical Staff
A comprehensive review of the new shoulder arms offered over the past year, including a Testfire Report on the exciting new Ruger Single Shot rifle—to be available by late fall.

WINCHESTER—A Century of Gunmaking by Pat Smith
Many good rifles were being made 100 years ago, but there was no successful repeater until shirtmaker Oliver Winchester introduced the Model 1866, the famed Yellow Boy, beloved by frontiersmen and Indians alike.

SPECIAL REPRINT THE MADMAN OF GAYLORD'S CORNER by Lucian Cary
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BULLET MOULD CONDITIONING by Gene B. Crum
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A well-known hunter-guide-rifeman reports on the effectiveness of this short-coupled carbine/cartridge powerhouse on elk and deer—here's the lowdown on their performance.

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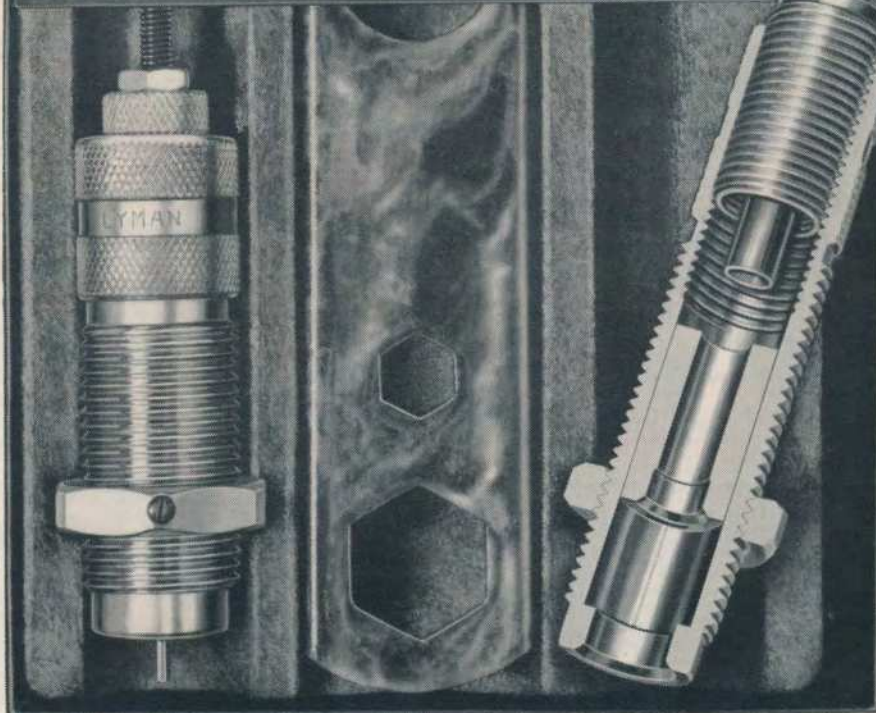
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DELUXE THREE-DIE PISTOL SET, now the finest set in the reloading field is teamed with the most advanced full-length resizing and decapping die in the world — the T-C (tungsten carbide) die, combine the best of both: the complete set is yours for only \$21.00.

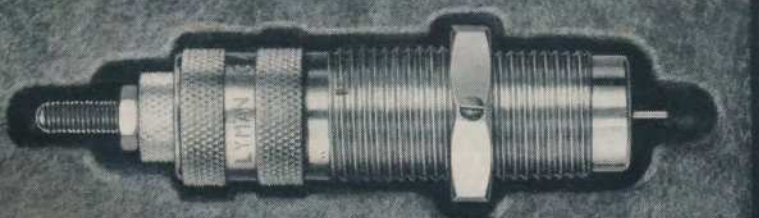


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HANDLOADING

(Continued from page 14)

anyone who loads several different calibers. Late last year I slugged an 8 mm rifle for a neighborhood buddy—it turned out to be the more obsolete bore diameter and took .318 bullets. In this case the micrometer was an absolute necessity. I also use mine for miking mixed bullets, and bullets that have been sized and lubricated by various custom makers.

No, you don't have to have a \$20 or \$30 mike. While I have several makes in my shop, I usually use a Japanese-made mike that I picked up at the local hardware store for \$1.99. It is crude, to be sure, but is completely adequate for my use. Next time you see these cheap mikes on the bargain counter, latch on to one. They are worth ten times the money if you use one regularly in your reloading operations.

In the "what's new" department, Norma has added a special .44 Magnum Carbine load to its line. According to a recent release, the "Tri-Clad" jacket on this carbine bullet is engineered to overcome the tendency to skip lands and to lead bores, and it protects against corrosion. Bullet is a soft-point flat-nose, 240 grains in weight. The "Tri-Clad" jacket is thin-walled and permits expansion at even low velocities of extended ranges, according to Norma. Muzzle velocity of this load in an 18½ inch harrel is 1,705 fps. The case is cannellured to distinguish it from handgun loads. Suggested retail price for boxes of twenty is \$3.55.

Late last April we received a letter from a handloader in Florida, complaining about a new law whereby a license must be obtained before one can purchase powder and primers in that state. The reloader went on to say that it was his understanding that reloaders were going to be required to have a powder magazine!

In an effort to find out more about this Florida law, we wrote to Mr. Edmund McLaurin in St. Petersburg. Here is his reply:

"Dave, there is a Florida law whereby dealers must have a license to sell reloading components (powder and primers), and the consumer is likewise required to have a permit to purchase. Just what the number of this law is I don't know. It does not appear among the Florida firearms laws, Section 790. Perhaps it is in a special "explosives" section of the state statutes.

"I have phoned all around this area, and while various dealers support my own knowledge, none can give me the law's exact title, nor can they give me its number.

"A dealer in Jacksonville, who has just put in reloading equipment, says that retail sales are definitely being hurt by the law. Apparently the law has been in effect for at least a year, but only recently has received enforcement attention. Someone slipped one over on us, for it was introduced and passed entirely without our knowledge."

A letter has been sent to the Attorney General's Office in Tallahassee, requesting a copy of this law. If we think that the Dodd Bill is idiotic, what do we call this law?



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OUR MAN IN WASHINGTON



CARL WOLFF

CONGRESS MAY HOLD GUN HEARINGS IN YOUR CITY

Chances are between the time this leaves my typewriter and appears in print the Senate Judiciary Committee will have worked its will on the pending gun legislation. The committee could send forward the infamous "Dodd bill" (S. 1592), but chances are one of the less-restrictive measures ("half-Dodd-bills") will be forwarded on its legislative journey.

Next stop will be the Senate Commerce Committee. This is the committee which would have ordinarily held hearings on the gun legislation. But, under special arrangements made by Sen. Dodd, the measure was referred to Judiciary, where he could take charge of it as chairman of Judiciary's Subcommittee to Investigate Juvenile Delinquency. Under the arrangement Commerce was to get the legislation back after that.

I discovered inside information that the Commerce Committee has tentative plans to hold out-of-town hearings on whatever bill Judiciary passes forward.

There is the possibility that Judiciary will not see fit to send any bill forward. Congress is trying to wrap up its work so the lawmakers can get back home and campaign. A number of other bills need the consideration of the lawmakers. Both the chairman of the full Judiciary, Sen. James O. Eastland (D.-Miss.) and minority leader, Sen. Everett Dirksen (R.-Ill.) oppose the harsh provisions of S. 1592.

Sen. Dirksen, besides being the senior Republican on Judiciary, is the leader of all Republicans in the senate. And, he is a close friend of Sen. Roman L. Hruska, who as the ranking Republican on the Dodd subcommittee, has headed the opposition to Sen. Dodd.

If readers would like to see Congressional hearings held in their cities, they should contact the Senate Commerce Committee, New Senate Office Bldg., Wash., 25, D. C. If readers plan to participate, they should also request copies of the specific legislation.

FRIEND OF SPORTSMEN

Much has been written from Washington about the men who have lead the fight for the additional and burdensome firearms controls now moving forward in the Senate. We have been overlooking those lawmakers in the Senate who devote their time and effort in our defense. These men deserve recognition and our thanks.



Such a lawmaker is the senior Republican senator from Nebraska, Roman Lee Hruska. He, like a number of our friends in the House side of Congress, favors only laws to keep guns out of the hands of law violators, not law-abiding citizens.

As a member of the infamous Dodd Subcommittee to Investigate Juvenile Delinquency, he has fought well in our behalf. His voice has been that of logic and reason opposing the emotionalism and sometimes panic-stricken demands of the opposition.

Sen. Hruska's speech of May 17, 1966, to the National Association of Attorneys General, outlines his philosophy. "It is difficult for me to be persuaded," he said, "that the restrictive controls called for in the Administration's bill (the so-called Dodd bill) are necessary or desirable for my state. That is not to say," he added, "I oppose all firearms control legislation. I would support reasonable amendments to strengthen existing federal firearms control laws, but the problem of criminal misuse of firearms must be put in its proper perspective."

Backing up the Senator's statement is the Federal Bureau of Investigation's Uniform Crime Report. First, firearms are used in the commission of only 4% of the 2.6 million serious crimes recorded by the FBI in 1964. He noted that "these one hundred thousand firearms crimes were only one-third of the total of the crimes of murder, aggravated assault, and robbery. These, by the way," added the senator, "are crimes of violence directed against persons where firearms could be used."

According to the Senator, this would indicate that even if all firearms in this country were somehow removed overnight, the problems of serious crime and the crimes of violence would still be with us to a very substantial degree. Another interesting and pertinent fact about crimes of violence where firearms are used as a criminal tool is pointed out by the Senator. It is that these are primarily found in larger cities.

There were more murders committed in 1964 in the four cities of New York, Chicago, Los Angeles, and Washington, than were committed in 31 states with double the population of those cities. There were more aggravated assaults committed in these same cities than were committed in 37 states with three times the population. There were more robberies in those cities than were committed in 43 states with four times the population.

"From these figures," states the Senator, "it seems reasonable to conclude that crimes involving firearms are primarily a problem of the larger cities. Why, then, is it necessary to saddle the entire nation with harsh and restrictive legislation to control the commerce in firearms to attack a problem that is centered for the most part in our larger cities."

The Senator believes the basic question Congress must answer is how anti-crime objectives can best be achieved without hampering or limiting the rights of law-abiding citizens to buy and own firearms for lawful and legitimate purposes.



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VALOR "Luma-Glo" Scope, goes to work when the sun goes down!

Ask your nearest dealer for free demonstration

THE INNER SECRET



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Sighting in on something in broad daylight will just confirm that this VALOR is a real beauty.

But just swing around, real fast out of the light into a shadowy area, where everything is blue black and a bit fuzzy. That's when this remarkable scope really goes to work. That's when you'll know what we mean when we say "inner secret." Everything gets keener, clearer, sharper, automatically.

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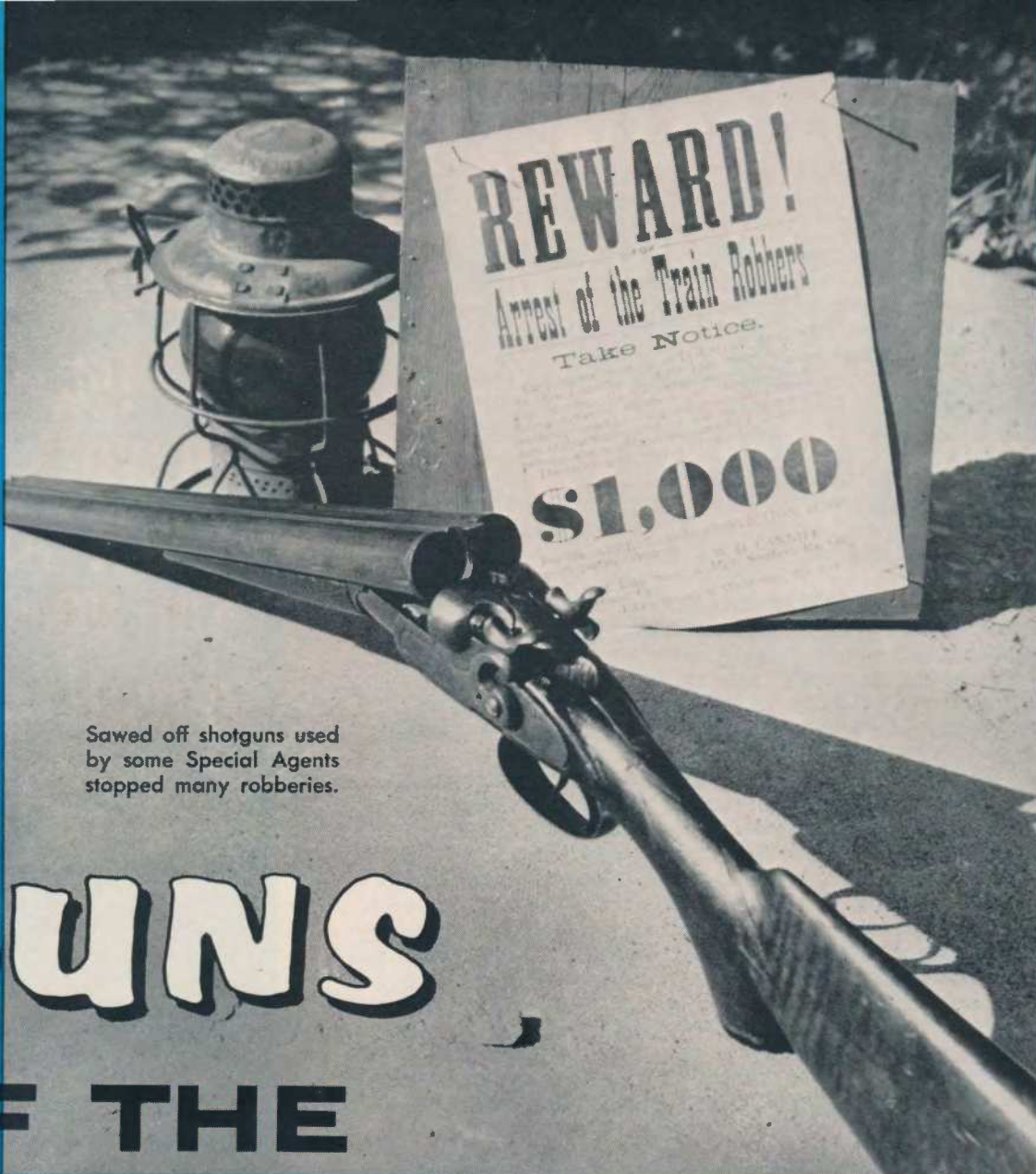
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Sawed off shotguns used by some Special Agents stopped many robberies.

GUNS OF THE CINDER DICKS



By GEORGE E. VIRGINES

RAILWAY POLICE ARE AMONG THE MOST FEARED LAW OFFICERS
BUT THEY ARE USUALLY FORGOTTEN BY HISTORIANS

THERE HAVE BEEN many significant contributors to the history of law enforcement on our Western frontier: The marshalls of various towns; the sheriffs of the counties; the heralded Rangers of Texas, Arizona, and Colorado; the United States Marshals and their deputies, and, of course, the municipal police forces.

But the least publicized heroes of law enforcement in the old West have been the Railway Special Services, or as they are more commonly known, the Railway Police or Special Agents. They have also been called by less complimentary names such as "Railroad Bull," or "Cinder Dick," and no doubt by many other and usually even less complimentary names.



An old print shows train robbers threatening an express messenger with dynamite to compel him to open his car.

CINDER DICKS

The origin of the Railroad Police is somewhat obscure, perhaps due to the fact that in their infancy no thought was given to history but only to current and future problems, but actually their history parallels the historic rise of our American railroads. Today our railroads stretch from coast to coast, and from Canada to Mexico, but it was a slow and tedious process to cover the nation with a network of rail transportation. Year by year the railroads extended their lines across virgin prairies of the West, Southwest, and Northwest. At the same time towns and villages sprang up along these lines as if by magic. Mining towns required mining equipment to be shipped in; the cow towns needed cattle cars to ship beef to the hungry East. Gold, silver, and great sums of money were being transferred back and forth across the country and valuable mail was being hauled. All of these commodities were, like honey to a bee, great attractions to outlaws. The many railroad followers were like leeches; the gamblers, con men, prostitutes, and other forms of low life all swarmed over the new boom towns. They followed the railroad's extending lines faithfully and the railroads became their prime prey. Railroad losses began to run into millions as the well organized gangs of outlaws regularly practiced daring hold ups. The Jesse James gang, as well as the Youngers, the Daltons, Black Jack Ketchum's "Hole in the Wall" gang, and plenty of others, were all well advertised on railroad "Wanted" posters throughout the country.

It soon became apparent that the railroad companies had to stop these depredations. After a great deal of trial and effort with inexperienced investigators, the company officials finally decided that they had to hire men experienced in police or detective work. The title these men would carry was "Special Agent." Many men who served as Special Agents have gone down in American and railroad history. A list includes Jeff Milton, Special Agent for the Southern Pacific Railroad and known as a "handy man with a gun;" Joe Lefors, a Deputy U. S. Marshal, hired by the Union Pacific because of his reputation as a manhunter (Lefors was chosen by author Frank H. Spearman as the prototype for the leading character in his Western novel, "Whispering Smith," the legendary Special Agent); Frank Furlong, well renowned as the Chief Special Agent of Jay Gould's vast railroad empire; Frederick Hans, known as the chief of the Northwest Railroad's treasured train police back in 1900 (he was supposed to have shot more train robbers than any man then living); Chief of the Special Service Department of the Colorado and Southern Railroad, William H. Reno, who was given much of the credit in running to earth the notorious outlaw Black Jack Ketchum and his gang.

There are many other names which belong on such a list, like those of W. F. Riley, Tim Keliker, John J. Kinney, et al. This list could go on and on to include a great number of men who devoted their lives to railroad (Continued on page 52)



These guns, exhibited in Union Pacific's Museum in Omaha, belonged to their Special Agents: Colt .44 Dragoon, flintlock pistol, "pepper box" pistol, and .32 Smith & Wesson.



The Colt "Lightning" was a favorite sidearm among railway police. The badge belonged to an agent of the Sante Fe.



GUNS IN THE NEWS

Local and federal law officers began a man hunt near Shade Gap, Pa., for the abductor of 17-year-old Peggy Ann Bradnick. After the man killed an FBI officer, local sportsmen were asked to volunteer to help with the search. Hundreds did respond and were instrumental in bringing the kidnapper to bay. Although many hundreds of persons were carrying loaded firearms, not a single mishap was reported. The state game commission praised the volunteers, saying their behavior was "typical of the sportsmen's interest in the community and welfare of the citizenry." UPI Telephoto.



BURNT CABINS, PA. 5/17/66: Pennsylvania State Police Patrolman peers into dense brush as helicopter conducts the air search for the kidnapper and slayer of an FBI officer.

ROMAN CANDLE GUNS *PART 1*

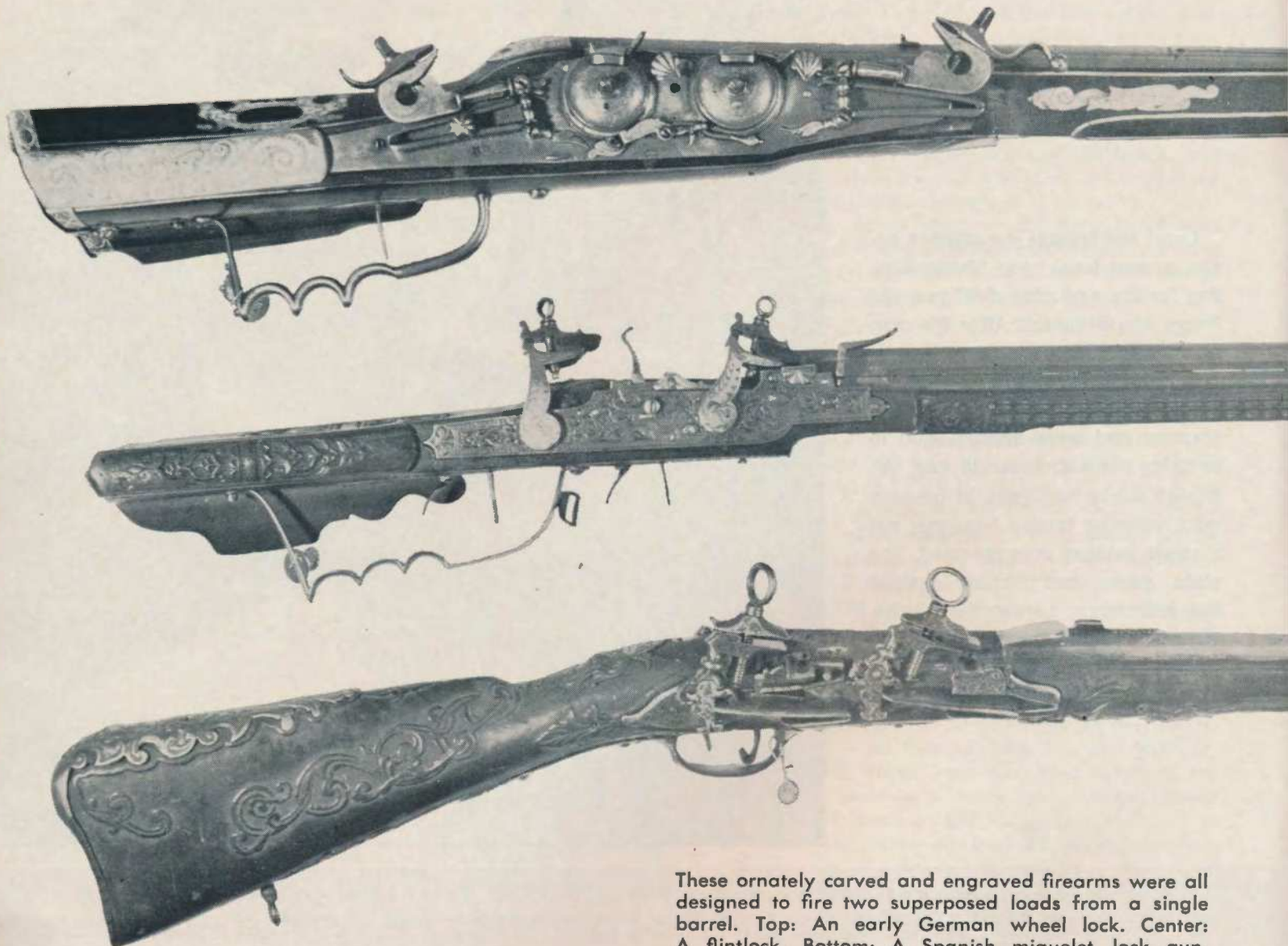
By JAMES E. SERVEN

WITH MANY SHOTS IN EACH BARREL,
THESE GUNS MADE REAL FIREWORKS

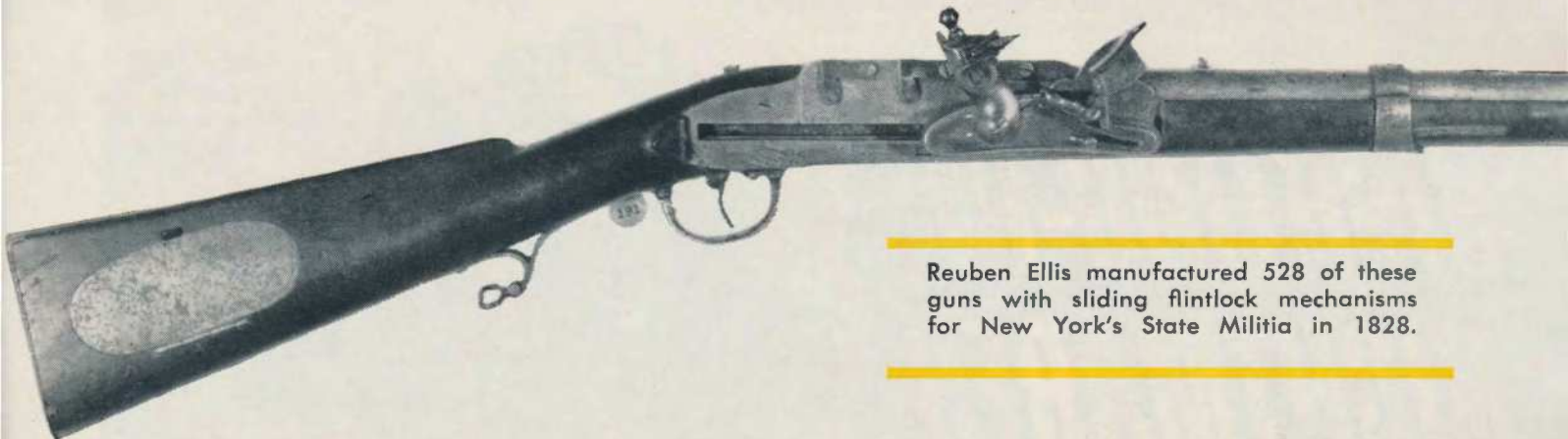
SHOOTING IN THE OLD DAYS was truly a sporting proposition—one might say it could be a sort of Russian roulette; you couldn't be sure whether some of the multi-shot weapons then employed would send their charges in the direction of the target or blow up in your face, perhaps with disastrous results.

Gunmakers started about 400 years ago to devise systems for producing multi-shot firearms. One of the very first systems they dreamed up, and applied to the matchlock and wheel lock arms then in use, involved multiple charges in a single barrel. Despite the fact that this was one of the most dangerous and impractical principles for multi-shot firearms, gunmakers down the course of three centuries persisted in attempts to make it work.

The guns designed to shoot superposed loads (more than one charge in the same barrel or cylinder) were made in two types. One type started a chain of uncontrolled charges, the front charge set off by the gun's particular ignition system and that charge communicating ignition to successive loadings behind it, the shots pouring out in quick succession as do the balls of colored fire from Roman candles at a fireworks display. The second type, and the type most widely used, employed various ignition



These ornately carved and engraved firearms were all designed to fire two superposed loads from a single barrel. Top: An early German wheel lock. Center: A flintlock. Bottom: A Spanish miquelet lock gun.



Reuben Ellis manufactured 528 of these guns with sliding flintlock mechanisms for New York's State Militia in 1828.

systems which were supposed to fire one shot at a time at the will of the shooter, starting, of course, with the forward load and continuing toward the breech.

This selected or controlled fire idea was good in theory, but in practice the first explosion sometimes set off all charges, and the shooter had the unpleasant surprise one gets when he accidentally touches off both barrels of a 10-gauge Magnum shotgun! In some cases, damage to both the gun and the shooter followed. Any guns with superposed loads, even when designed for controlled fire, might

voice a chorus of shots rather than a planned solo. The English authority, Major H. B. C. Pollard, tells us that the first discharge tended to drive back the ball of the charge behind, and it either blocked the touchhole or more often caused a second explosion and a burst gun.

It is not definitely known who was brave enough or brash enough to build the first guns designed for superposed charges, but doubtless they were introduced by several of the 16th century gunmakers of Central Europe. The idea was picked up by other (Continued on page 48)



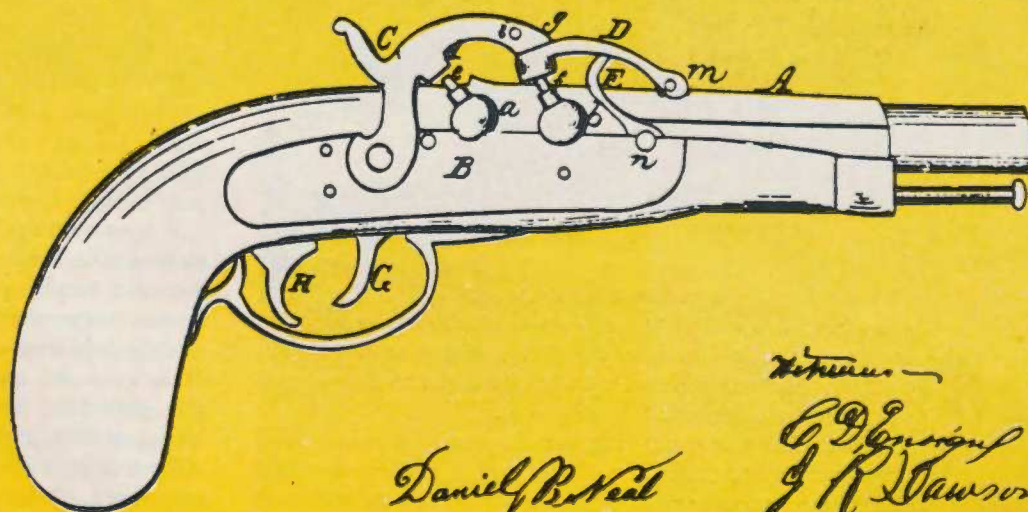
There were several ways of using multiple percussion locks. Above: Jacob Mould had a sliding lock system. Below: D. B. Neal used a clever interlocking hammer system.

D. B. NEAL

Muzzle-Loading Fire-Arm.

No. 12,440.

Patented Feb. 27, 1855

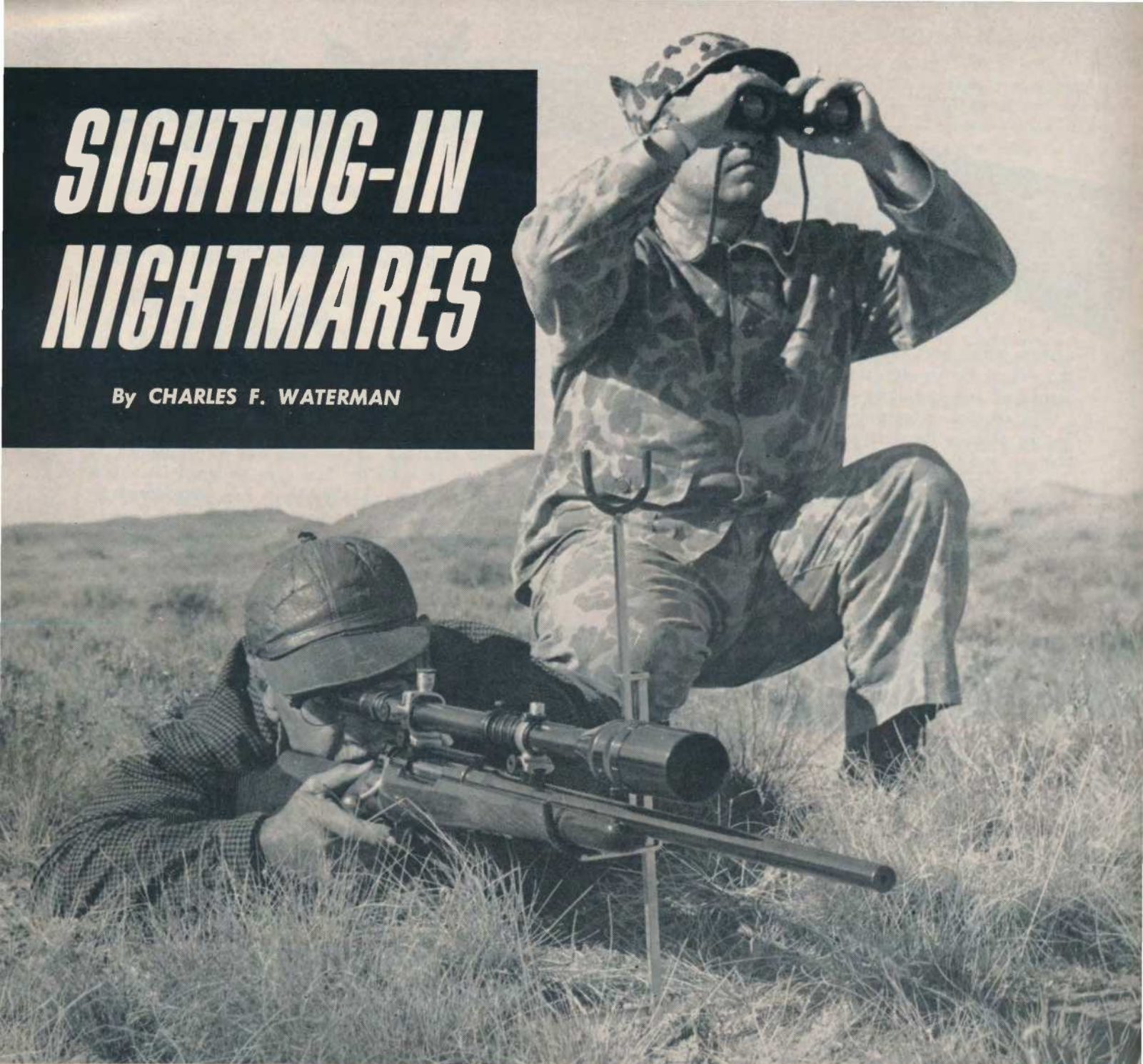


Daniel B. Neal

*C. D. Emory
J. R. Dawson*

SIGHTING-IN NIGHTMARES

By CHARLES F. WATERMAN



IF A 100-YARD HIT on a big deer is good enough, forget this article. If you want more from your rifle, stay with me for the next few minutes.

I sometimes envy the carefree characters who sight in once and hunt a life-time, accepting misses as the breaks of the game when it's really their hits that are happy accidents and not the result of planning.

Sighting in a hunting rifle sounds simple, has been well explained in hundreds of articles, and is a necessary first step toward a meat supply. But even after it's meticulously on the button, there are dozens of reasons why it won't shoot where you want it to. Part of them are the rifle's fault; part of them are yours.

A long time ago I carefully zeroed a flat-shooting, scope-sighted rifle from a bench rest and then went forth and missed a trophy pronghorn at 300 yards. I missed twice from a prone position with a good, tight sling. Why? I've already told you—a good, tight sling.

Back on the range I found that with a tight sling my rifle shot four inches left at 100 yards. That makes 12 inches at 300, even if I held perfectly—and 12 inches at 300 yards provides a pretty good insurance policy for any pronghorn.

The rifle needed fixing? Are you sure yours doesn't? Lots of light sporters shoot "toward" the pull of a tight sling. Tension on the swivel simply changes the barrel



Left: Heavy barrel varmint rifles, such as this custom .22-250, are less sensitive to different rests. Above: Even a very accurate rifle will shoot differently from the bench and in the field, even if a rest is used.

“whip” as the bullet leaves. Getting technical? Not at all. Try it yourself.

A sandbag rest as usually used on a bench will nearly always throw the bullets higher than they’ll go when the rifle is held in your hands. Generally it’s only an inch or so at 100 yards but I had one that went three inches higher from the sandbag. That’s serious.

“Flinch” is a word that’s almost taboo around hunting camps. It’s vaguely associated with cowardice, physical weakness and general lack of character. Actually, almost all riflemen flinch. A beginner may jerk one off a washtub at 50 yards and a Master may “jerk” one an inch at 200, but they both flinch.

Experienced shooters often develop controlled flinches that play them false by nullifying careful sighting-in. A flinch isn’t always fear; simple anticipation of recoil can make a shooter perform some muscular act that changes the point of impact at the last split second, even as the firing pin is on its way. He may shoot a tight group because his little flinch is the same each time.

Another fellow and I fired the same rifle from a bench rest and were pouring them all into the same group. Then we both fired from a sitting position and found that the center of his group was more than three minutes of angle from the center of mine, although we both happened to be shooting well that day. Of course there can be something in the firmness of our grips on the rifle but I go with the explanation that one or both of us moved slightly just as the rifle fired—doing it the same way each time.

Any good rifleman can do a fair job of sighting in a scope for you. With open sights, it’s a completely personal matter. Give two good shooters a short-barreled, open-sighted deer rifle, let them shoot from a bench and their groups may be a foot apart at 100 yards.

Most hunters feel that “a rest is a rest” but if you lay the fore-end or barrel on a hard object, it will shoot much higher than from a sandbag. Generally it will go higher from a solid sandbag than from a loosely-filled one. In fact, it is disturbing to note that any change in position when firing from a bench will almost invariably enlarge the group—with a light rifle.

The rifle tends to recoil away from any object it rests against, even when it’s a heavy barrel. In testing a portable rest for varmint shooters with a hair-splitting custom varmint I found that I could move my group considerably by shifting the rifle in the cradle so that the fore-end pressed slightly at one side. Of course, when you lay a rifle barrel against a tree without padding, you’ll get some very dramatic results—and misses.

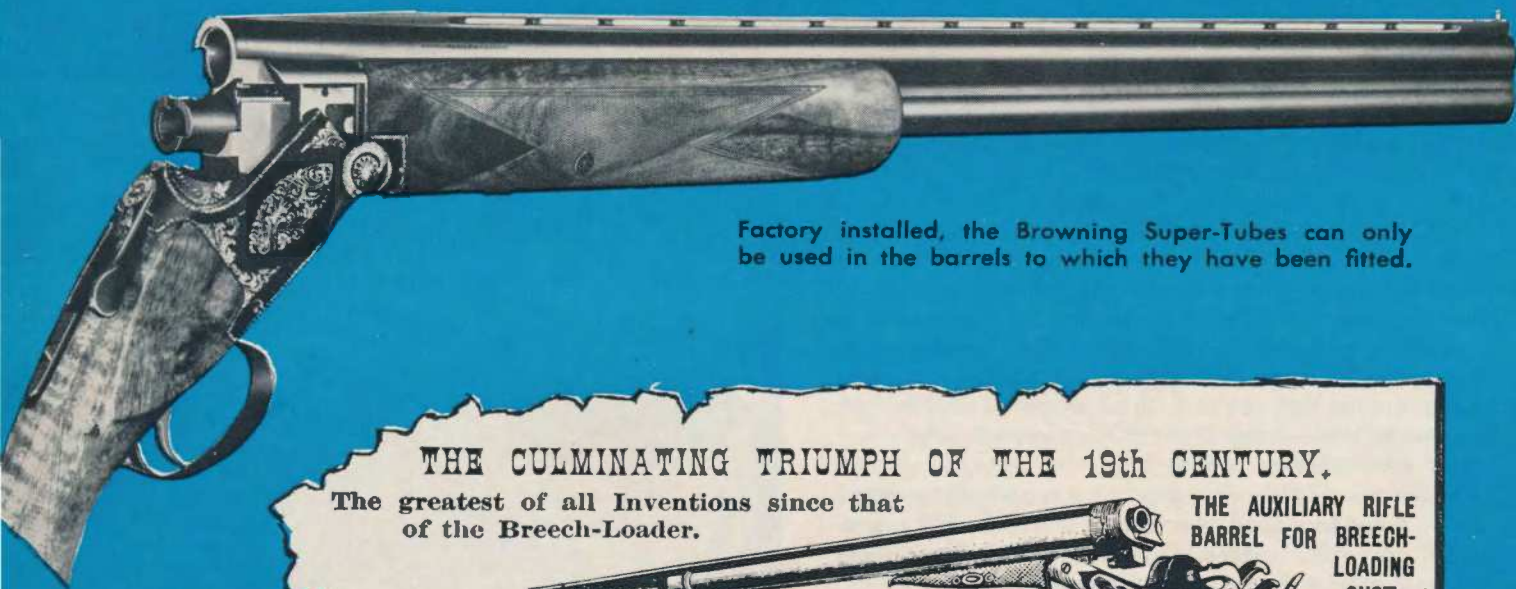
Some of the best grouping rifles in the world are no good for long range use, simply because their point of impact varies with barrel temperature or capricious stock warping. An inch group is no good if you don’t know where it’s going to be. The tightest (*Continued on page 46*)



If you take a sitting position and use a tight sling like this varmint hunter, your group will most likely “move” when your rifle has been zeroed from a bench.



Mounted in a drilling, the Krieghoff .22 barrel inserts increase the gun's effectiveness. Easily adjustable, they can be mounted to use the same sight setting for 40 yard shots as the larger bore does at 200 yards.

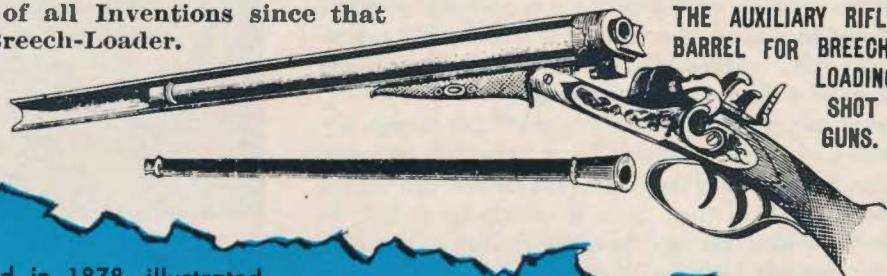


Factory installed, the Browning Super-Tubes can only be used in the barrels to which they have been fitted.

THE CULMINATING TRIUMPH OF THE 19th CENTURY.

The greatest of all Inventions since that of the Breech-Loader.

THE AUXILIARY RIFLE BARREL FOR BREECH-LOADING SHOT GUNS.



An old gun catalog, published in 1878, illustrated a "revolutionary" invention, the auxiliary barrel.

RIFLE and SHOTGUN BARREL INSERTS



The Savage Four-Tenner can easily change a break-open type shotgun to .410 gauge.

By R. A. STEINDLER

THE DESIRE FOR greater versatility in either a rifle or shotgun is not new. Almost since the first firearm, men have tried to get more usefulness from their guns, and so evolved the barrel inserts which permitted the shotgunner to shoot a smaller shell; those which permitted a rifleman to fire sub-caliber ammunition; and those which permitted the use of metallic ammunition in a shotgun.

There are several makes of shotgun insert tubes which convert a larger gauge to one that is smaller. Some which are available in the U.S. are: Browning's Super-Tubes; the Savage Four-Tenner; Parker-Hale's .410 Cartridge Adapter, and another made by Manufrance. All of these work on the same basic principle, though there are some differences in the way they are fitted.

The Parker-Hall insert I tested was designed to convert a 16 gauge break-open shotgun into a .410; models are also available for the 12 and 20 gauge guns. The insert handles the 2½" .410 shell only, although a recent P-H catalog shows 3" models are available.

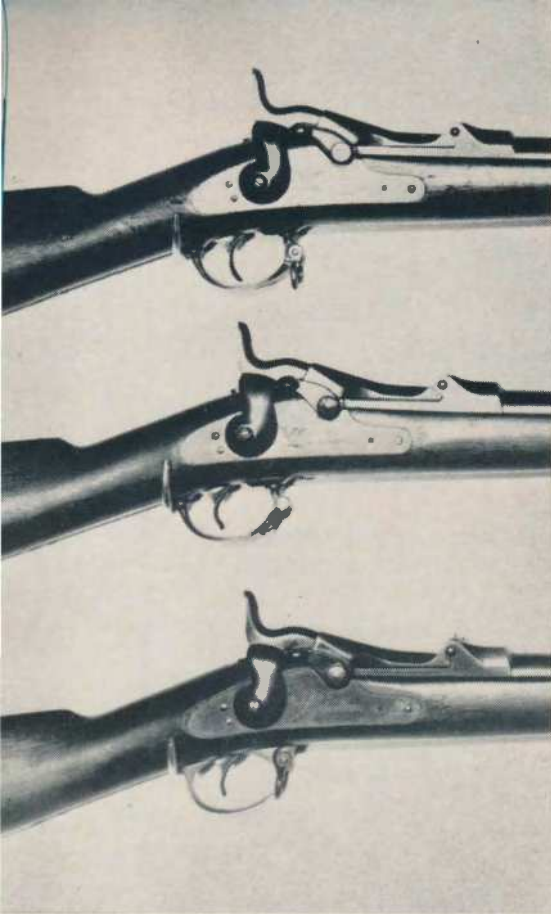
The original Savage Four-Tenner was introduced several years ago, made entirely of steel. The current models are of aluminum alloy, with a steel breech, and are much lighter in weight. These also convert any 12 gauge break-open shotgun to .410, and they will handle either the 2½" or 3" shells. There is no extensive fitting required with the Four-Tenner. Measuring 12" over-all, the Four-Tenner weighs only five ounces, and sells for less than \$10.

Browning recently introduced their "Super-Tubes," which permit any 12 gauge Browning Superposed to be converted to 20, 28, or .410. Installation must be made by Browning, and once a set of Super-Tubes are fitted, they may be removed and re-installed by the shooter at any time. Browning offers a "Three gauge set," which includes one pair of each of the three gauges of tubes, matching ejectors, a combination tap-out and cleaning rod, cleaning brush and loop, pin punch, and a can of gun oil. All of these are fitted in a handsome luggage-type case. The insert tubes are color-coded; 20 gauge, red; 28 gauge, blue; .410, green. Priced at about \$267 for the set, they are expensive, but not as expensive as three superposed shotguns. Browning also offers a "single gauge set with one pair of tubes in any gauge, fitted in a vinyl carrying case, and priced under \$100.

The use of shotgun conversion tubes that allow a 12 gauge gun to fire any of the smaller gauge shells should, in my opinion, be a lot more popular. Every upland hunter has had to pass up shots that were too close to the gun, and in dense brush while hunting ruffed grouse, this means a missed opportunity. Similarly, once a bunny gets into the undergrowth tangle after being started out in the open, hitting your target is more a matter of luck than skill. A smaller gauge—very often the .410—would then do the trick very nicely. The handling qualities of the shotgun are not affected by the addition of the insert, a (Continued on page 62)



Savage, Parker-Hale, and Manufrance .410 inserts.



Springfield buffs consider basic the 1873, 1879, and 1889 models.

THE STANDARD U. S. RIFLE FOR 20 YEARS, THESE GUNS ARE BECOMING VALUED COLLECTOR'S ITEMS

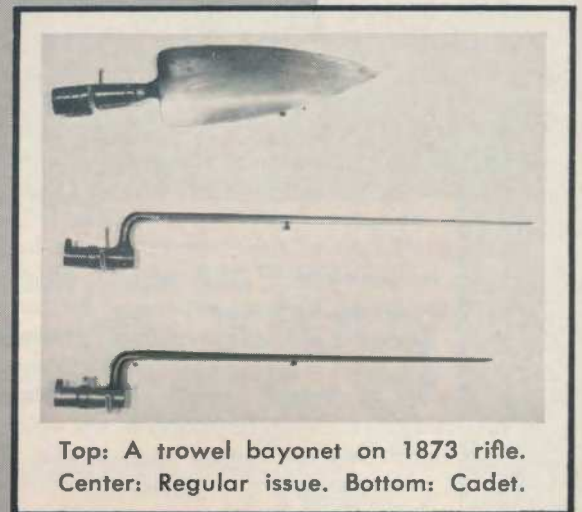
BY AN ACT OF CONGRESS on June 6, 1872, a board of officers, was created for the purpose of selecting a military service arm which would be more adequate than the one in current use. This group was often referred to as the "Terry Board" because it was headed by Brigadier General A. H. Terry, the ranking officer of the board. The service weapon at that time was the Model 1870 Springfield rifle of .50 caliber. The purpose of the board was to select an arm which had more range and power; in addition, there was the possibility of considering several of the repeating arms that had been developed. After many long series of tests the board recommended the adoption of the Springfield rifle. Actually, what the board was saying was that the "trapdoor," or Allin system, was to be retained. Another board of Ordnance officers meeting subsequently to the "Terry Board" made a recommendation which constituted the major change—this was the adoption of the .45-70 cartridge. This new cartridge was ballistically a great improvement over the old .50-70.

The arm developed as a result of the board deliberations of 1873 was the Model 1873 Springfield Rifle. This weapon continued as the standard service weapon until the adoption of the Krag in 1892 and overlapped the Krag in service for several years. The Springfield did not have a particularly illustrious history during the approximate twenty years of its use. Custer's



THE .45-70 SPRINGFIELD RIFLE

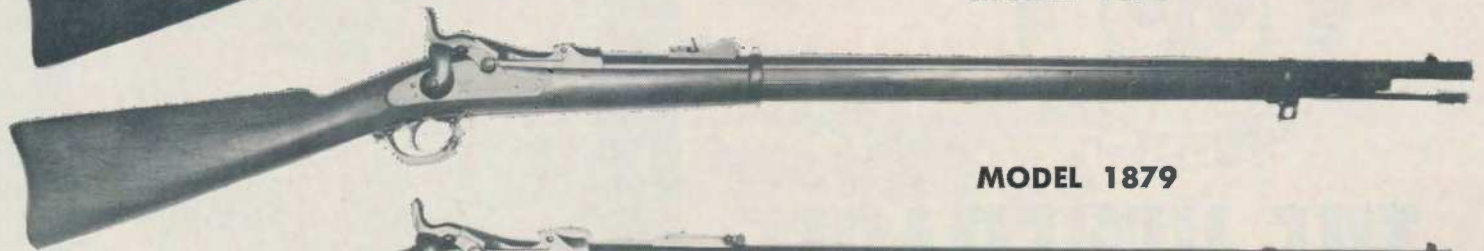
By CHARLES M. DEWITT



Top: A trowel bayonet on 1873 rifle.
Center: Regular issue. Bottom: Cadet.



MODEL 1873

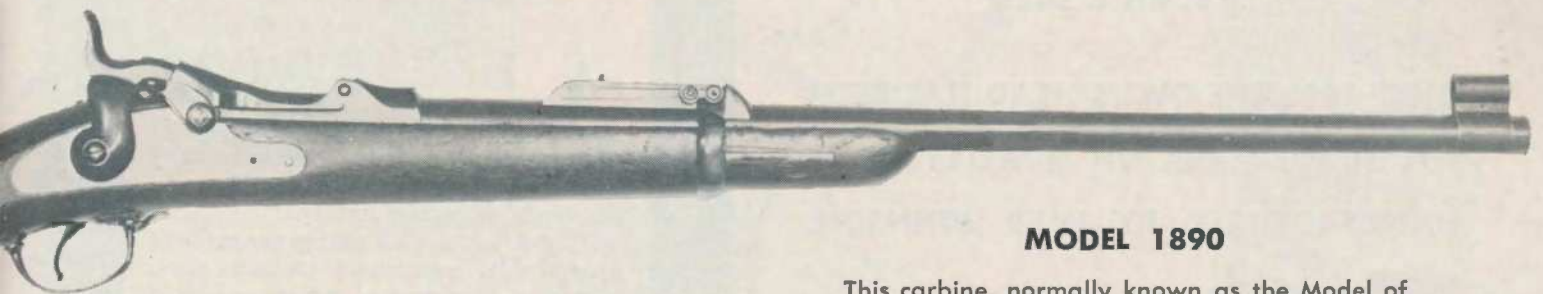


MODEL 1879



MODEL 1889

The Cadet rifle, Model of 1873, was somewhat shorter than either of the rifles produced as the Models of 1879 and 1889. Except for size, the design was identical with regular issue.



MODEL 1890

This carbine, normally known as the Model of 1890, is a late issue 1884 with "Hump" band.

troops had the carbine and some troops in the Spanish-American War used this weapon. The .45-70 saw some use in skirmishes against the Indians and no doubt some captured weapons were used by the Indians against the troops. Col. Philip Shockley, in his book, "The Krag-Jorgensen In The Service," makes several references to the use of the .45-70 Springfield in Cuba and the Philippines. It was also used extensively by State Guard units; this fact verified, primarily, by the large number of arms which bear state and unit designations.

An Ordnance Board, established in 1877, at a meeting in 1882, tested 23 firearms. Among these were the Chaffee-Reese and the Hotchkiss, small amounts of which were issued to troops for extensive trial use. Perhaps, because of the reliability of the .45-70 "trapdoor," or more likely because of the reluctance of the soldiers to give up the "tried and true," reports from the field were in favor of continued use of the .45-70.

Only within recent years has this gun come into its own as a collector's item. Perhaps this is partly attributable, at least, to Jack Behn's book, ".45-70 Rifles," which was published in 1956. Less than a decade ago .45-70's sold for only a few dollars apiece. Sophisticated collectors, who once would not give them a second glance some years ago, are now beginning to recognize them. The .45-70 has increased considerably in value and is beginning to take its

place as a collector's item. In addition, collectors are beginning to distinguish between the basic models, whereas until recently a "trapdoor" was the inclusive category into which all models were placed. Even today, a Model 1873 may be advertised as such only because the breech block carries that date.

For the purpose of this discussion, a "basic" model is defined as one which was issued in large numbers to troops as the standard military rifle. There were four such models of the .45-70—the Model of 1873, the first issue, and succeeding issues of 1879, 1884, and 1889. Each of the four models have approximately the same dimensions—51.92" total length, 32.375" barrel, 48.70" stock, and a total weight of 8½ pounds. The most distinctive and readily visible features characterizing each model are listed below, taken from the United States government publication, "Description and Rules for the Management of the Springfield Rifle, Carbine, and Army Revolvers."

Model 1873—breech-block dated 1873; arched "stepped" rear sight graduated from 1 to 4 on side; solid, one piece front sight; lock plate dated 1873; ramrod similar to that used in 1870 Model Springfield.

Model 1879—breech-block dated 1873; not arched in order to provide greater strength, March 1878; front sight has inserted blade held by rivet; "buckhorn" rear sight (of which there are four forms); (Continued on page 56)



THE VENERABLE "OWL HEAD"

By DEWITT E. SELL

**SINCE 1871 THE OWL'S HEAD HAS BEEN
THE TRADE-MARK ON QUALITY ARMS
MANUFACTURED BY IVER JOHNSON.**

SPECIMENS OF REVOLVERS whose hard rubber grips bear an embossed head of an owl at their apex are today regarded somewhat disdainfully by a majority of the gun collecting fraternity. That this is so only serves to lend strength to the adage that "We are often down on things that we are not up on."

The owl head, which was Iver Johnson's mark as a Chapter Mason, was adopted as the trade-mark of Iver Johnson products early in the history of this firm, which has been continuous since 1871.

It is perhaps a little-known fact—even among gun fanciers—that the firm of Iver Johnson's Arms and Cycle Works produced more revolvers than any other manufacturer in the world during the first decade of the 20th century. Throughout that era, this colossus of American industry maintained branch offices at Hamburg, Germany, and London, England, as well as in New York and San Francisco, to handle its extensive volume of foreign and domestic trade. By the year 1908, Iver Johnson catalogues were being issued in eight languages.

Iver Johnson revolvers have played a colorful role in numerous historical events, having been purchased by a great number of American soldiers during the Spanish-American War while thousands were carried by both sides during the Russo-Japanese War, although neither country supplied sidearms to other than their commissioned officers. During the early decades of this century, Iver Johnson revolvers were preferred by many law-enforcement officers



AFTER years of disuse an Iver Johnson will respond to the trigger pull as sharply and surely as on the day it leaves our armory.

That is because all springs are made of unbreakable, permanent tension piano wire—the same type of springs as is used in U. S. Army rifles. The

IVER JOHNSON Safety Automatic REVOLVER

is the only revolver equipped with these coil springs—the only modernized revolver.

It is the only revolver that is made absolutely safe from accidental discharge by our famous, three-million-times-tested, safety action.

"Hammer the Hammer"

To prevent substitution of obsolete models and limit sale to proper persons, distribution is confined to resident dealers, licensed under our patents. Mail order houses are not licensed.

**IVER JOHNSON'S
ARMS AND CYCLE WORKS
000 River Street, Fitchburg, Mass.**



Typical Iver Johnson advertisement makes great use of "Hammer the Hammer" safety.



Finally discontinued in 1950, Iver Johnson's Safety Automatic revolvers were offered with a choice of designs, with hammer or without.

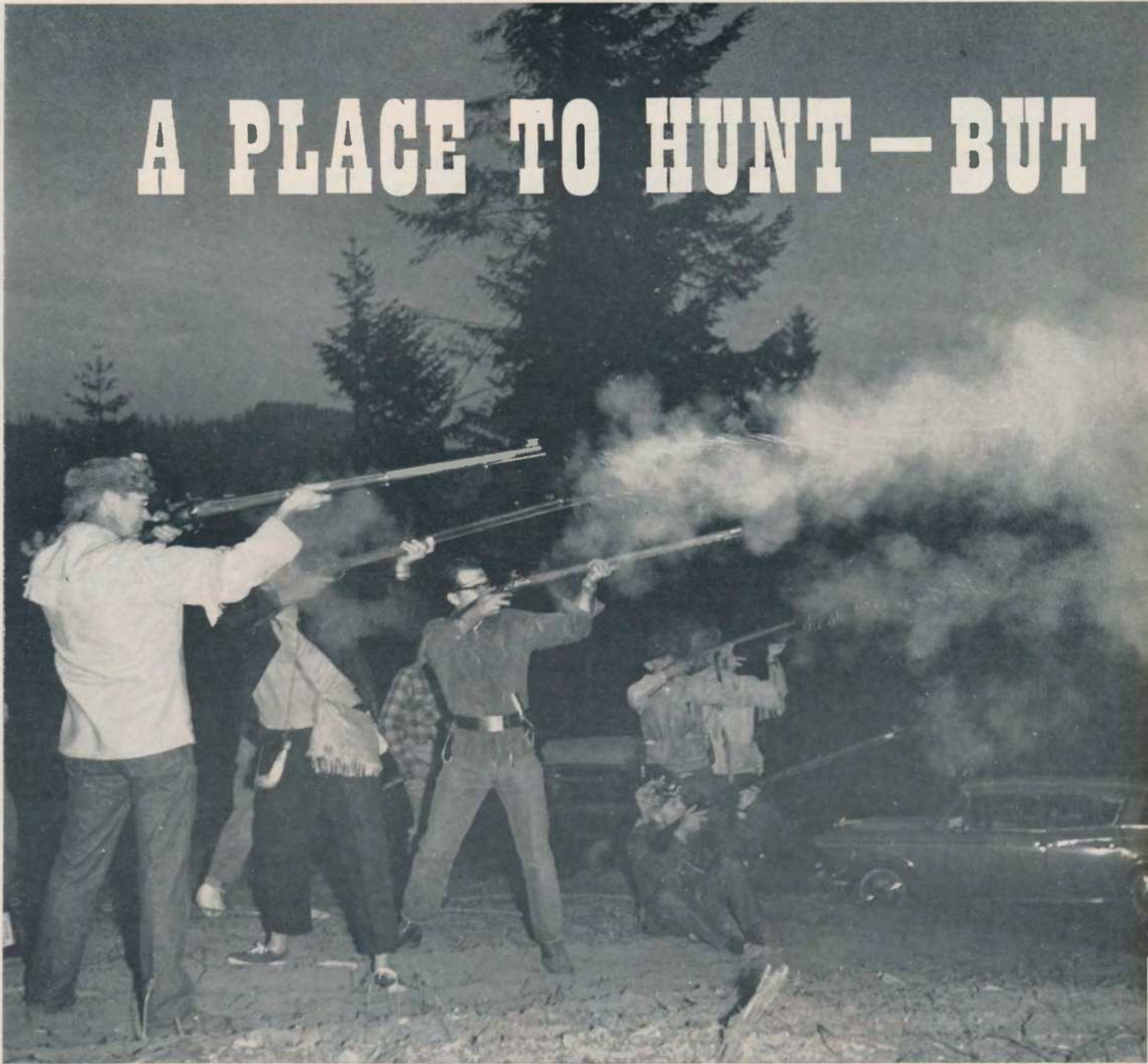
throughout the United States and were at one time issued to the mounted police of Moscow, Russia. It is discomfoting to recall that it was a .32 caliber Iver Johnson revolver that was employed by Leon Czolgosz, the assassin of President McKinley.

Until Iver Johnson's Arms and Cycle Works developed their "Safety Automatic" revolvers in 1894, they were just another firearms firm competing for a modest share of the consumer's market for handguns. Even after they began plugging the theme that accidental discharge of their revolvers was impossible, the public did not at once accept

this claim at its face value. It was not until 1904 that the absolute safety of the Iver Johnson "Safety Automatic" revolver with respect to accidental discharge by a fall, or an unexpected blow on the hammer, was forcefully driven home to the public in a manner that defied contention. It was at this time that the "Hammer the Hammer" slogan was adopted and reinforced through such widespread advertising that it became known in virtually every household throughout this and many foreign lands.

The following anecdote, which was recorded in an issue of "Printer's Ink," vividly relates (*Continued on page 50*)

A PLACE TO HUNT — BUT



**USUALLY THOUGHT OF AS CLOSED
TO ALL TYPES OF HUNTING,
THIS TREE FARM IN OREGON IS OPEN
TO MUZZLE LOADERS ONLY**

By **BILL WEST**

OF THE 25,000 voluntary Tree Farms that beautify the landscape of America and produce continuous crops of trees, perhaps the noisiest one is that owned by an Oregon man and wife team who manage a 278-acre woodlot just outside Eugene, Ore.

The noise is accounted for by the fact that the Keeneys have declared their Tree Farm off limits to all hunters except those who use old-fashioned, muzzle loading firearms. Since there is a considerable number of muzzle loading buffs around Eugene, the sound of giant thunderclaps is a common experience on the Keeney's Tree Farm. Visitors have likened these explosions to the blasts made by loggers dynamiting stumps. More than likely, they are the practice volleys of the local Black Powder Club, a muzzle load-

FFg ONLY!



The old smoke pole's accuracy was proven by David Stejskal who examines the white tail that he killed on the Keeney Tree Farm near Eugene, Ore.

Quietly waiting at a secluded stand, this black powder fan holds a beautiful example of the only type of firearm that is allowed on the Keeney land.

ing sportsmens group that has entree to the Kenney's acreage. The club's practice sessions enabled it to bag 21 of 24 plaques given out at the Western States black-powder shoot several years ago.

On occasion, the noise is created by Keeney himself, rending the air with cap and ball shot. That's how he relaxes after a day's work of planting, weeding, and culling trees on his tract, which has been certified a Tree Farm in recognition of splendid forestry care given it. His encouragement of black powder shooting has also been getting recognition.

Keeney has successfully converted some of his friends to the cap-and-ball shooting society. "It's quite easy to get them hooked," he explains. "At first they handle the muzzle loaders with misgivings, al-

ways ask if they kick much (they don't). When they get enough courage up to discharge the piece, they are shocked at the blast of noise and the burst of white smoke. But when they peek under the powder cloud, a slow smile steals over their faces. That's when I know I've got some new converts."

Keeney isn't unduly concerned about overshooting on his property. By following good tree farming practices, wildlife thrives on the food and cover provided. In fact, he may have to call on outside help to keep the game within bounds so they don't outstrip their food supply. If so, the Black Powder Club will be his last resort. During a recent hunting season, total game bagged by that group on the Keeney Tree Farm was ONE.





This Army Target Shoots Back!

By EUGENE PITTS

The effects of BB pistol return fire are lessened with padding.

SHORTER BASIC TRAINING MAY STEM FROM THIS NEW COMBAT COURSE WITH RETURN FIRE FROM BB PISTOLS.

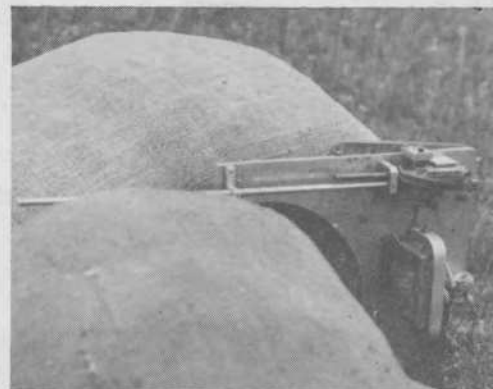
TEACHING FAST DRAW TECHNIQUES may not be what scientists from the Army's Human Engineering Labs had in mind when they designed their retaliating, pop-up silhouette targets, but the soldiers using these targets are learning to get their guns into action and hit the targets fast.

Army riflemen, equipped with special protective clothing, were put through their paces in two special tests of these pop-up targets, one on the Wallis Range at Fort Benning, Georgia, and the other at the Aberdeen Proving Grounds in Maryland. The scientists from the Human Engineering Laboratories at Aberdeen designed the retaliating targets to find out just how a rifleman's performance is affected by a combat situation. Two techniques of firing, aiming and instinctive pointing, were studied with two standard Army rifles, the M14 and the M16, both with and without the retaliating fire.

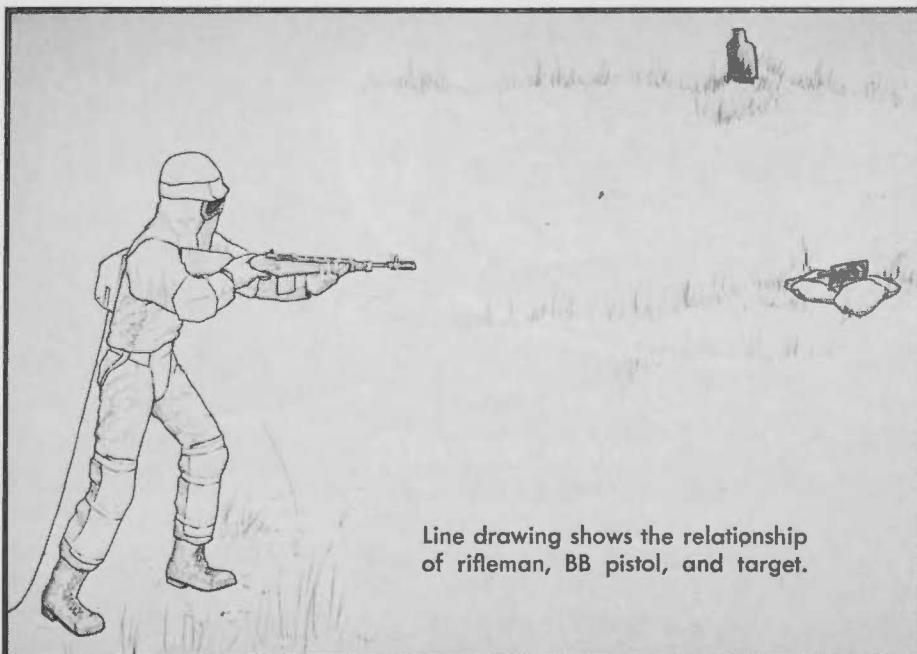
To provide the return fire, Daisy CO₂ pistols were specially modified by enlarging the magazine capacity to 60 rounds, shortening the barrel to reduce muzzle velocity, and adding a remote-control firing apparatus. A four by eight foot plywood backstop behind the rifleman kept the BB's from going uprange and also provided an additional psychological effect as the resounding wood made the soldier aware that he was being narrowly missed.

Just as in combat, the rifleman on the course has little time to aim and fire. The targets on the range appear at brief intervals of from two to three seconds, at unexpected angles around a 60 degree arc, and at ranges which vary from 20 to 60 meters. Each test rifleman was expected to fire on the targets as quickly and as accurately as he could. If he was not able to hit the target within two seconds after it popped up, he suffered the effects of retaliatory fire from the BB gun. If the silhouette target was hit, the BB gun was deactivated until the next target appeared. The special protective gear worn by the riflemen included a helmet with a built-in fan and a Plexiglass visor and athletic equipment or heavy nylon fabric to cover other vital parts of the body, the hands, and the legs. There were no injuries during the tests, though a number of welts and "bee sting" type bumps were noted on the slower riflemen's legs and arms. Viet Nam veterans said that the retaliating target course was very much like the real thing.

In the first study, a group of riflemen who had been trained in the pointing technique fired a single weapon, the M14, on the quick-fire course, both with and without the return fire. In the second study two groups of (Continued on page 73)



Top: Heavy sandbag anchors the base of pop-up silhouette. Bottom: The BB pistol barrel was shortened for lower velocity.

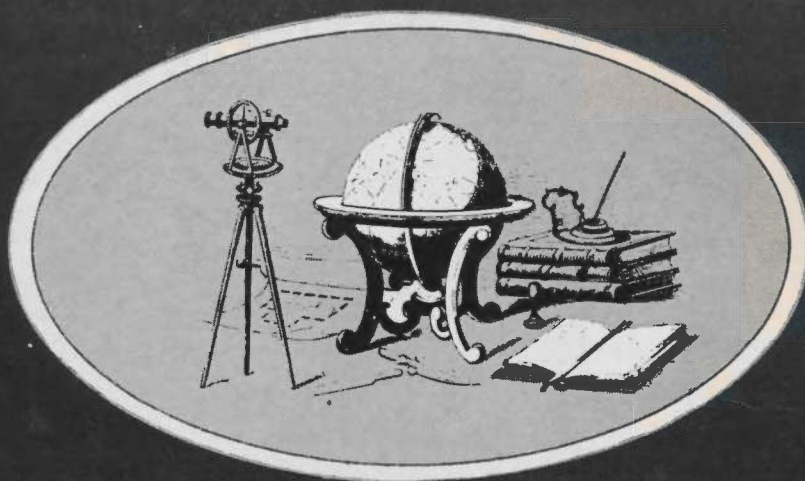


Line drawing shows the relationship of rifleman, BB pistol, and target.

A GALLERY OF

Old World Guns

The guns shown in our color gallery this month represent a period in fire-arms development that spanned more than a century—the transition period between the matchlock and the flintlock. The matchlock, though a great advancement over the hand cannon, was too slow and uncertain, and the wheellock evolved. According to tradition, the wheellock was invented by Johann Kiefuss about 1517. Next to appear was the flintlock, generally credited to Marin Le Bourgeois, gunmaker for Louis XIII of France, in about 1615. The Flintlock remained the primary percussion system until the 1800's when the percussion cap evolved from the invention of a Scottish minister named Alexander John Forsyth.

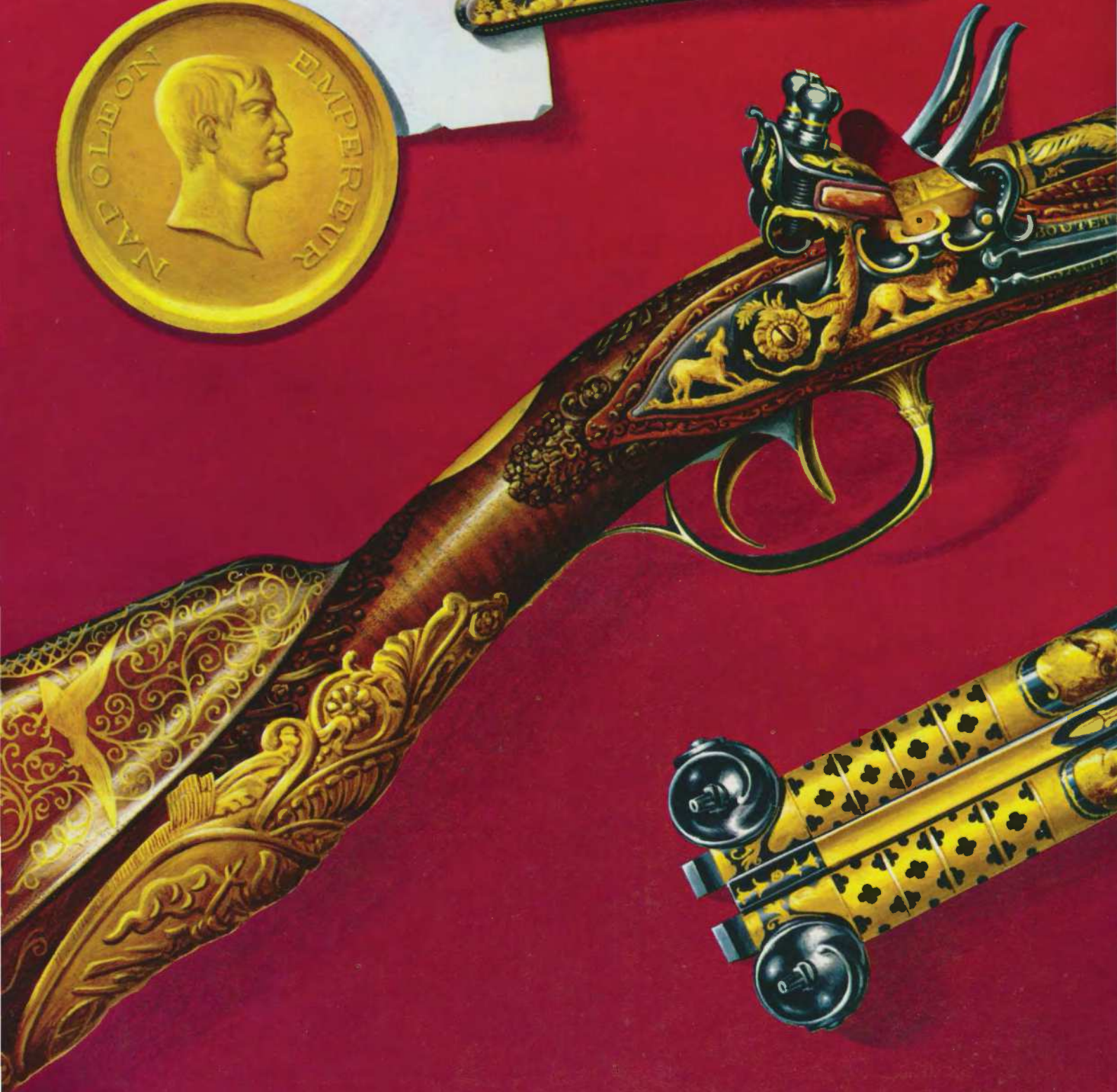


SPÁNISH MIQUELETS

Stretched across an ancient map of both the Americas, these magnificent miquelet pistols by Felix Guisasola, 1700, recall the days when the guns of the Old World were used to dominate lands discovered in the New World.



*Beutet, Directeur Artiste
Manuf^e à Versailles*



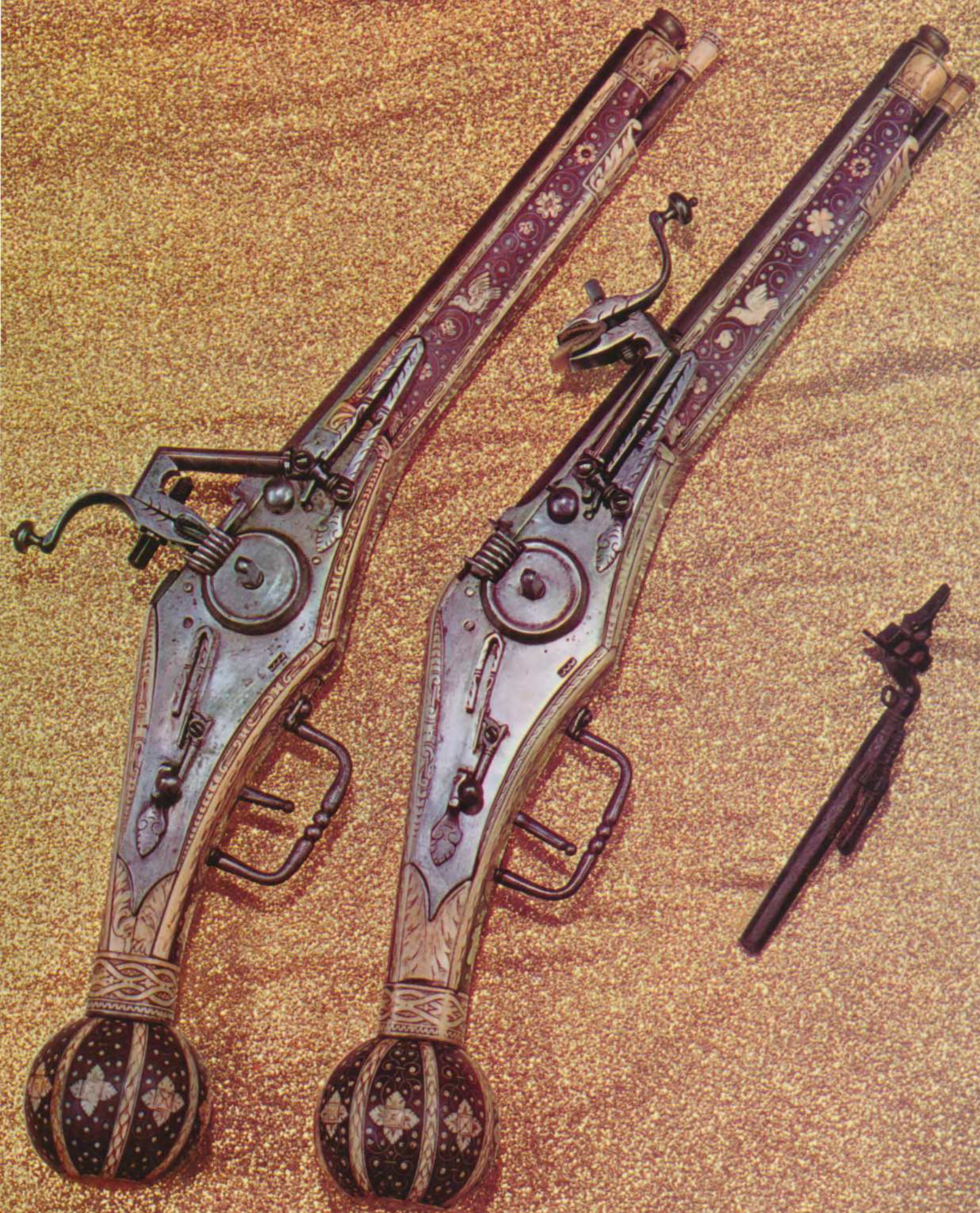


J. M. Triggs

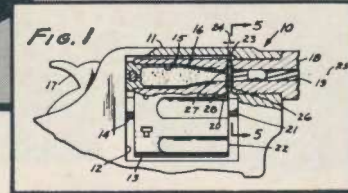


The Emperor's Shotgun

Incredible as it may seem, this fowling piece is not a unique creation of a master gunsmith, but only one of the many dazzling arms created by Nicholas Noel Boutet, Director Artiste de la Manufacture d'Armes de Versailles. The flintlock in Triggs' painting was made about 1800 for Napoleon. In 1831, Gaoue, disciple of Boutet, made a set of new percussion locks and Leopold Bernard of Paris matched the barrels. The Boutet factory produced many beautiful firearms like this, but only for the rich, for no others could afford them.



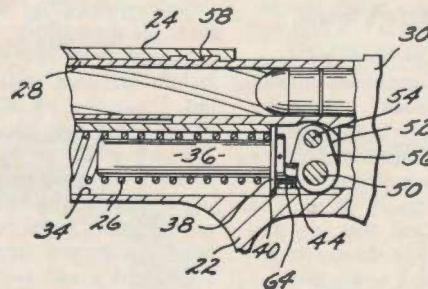
NEW PATENTS



3,241,449 BARREL BIASING MEANS FOR AUTOMATIC FIREARM

Daniel I. Dwyer, Sr., 4167 Palmetto Way,
San Diego, Calif.

1. In an automatic pistol having a frame, a recoiling breech slide and a recoiling barrel mounted thereon for tilting at its rearward portion relative to said slide and including a depending portion mounting a transverse barrel link pin, means for interlocking said barrel and said slide, a transverse slide stop pin mounted to said frame, and a recoil spring for opposing rearward recoil movement of the slide and for then returning the slide to its forward firing position, the improvement comprising:



a recoil spring guide carried by said frame and encompassed by said recoil spring, said spring guide mounting a rearwardly projecting resilient bias element; and a barrel link pivotally coupling said barrel link pin and said stop pin whereby said barrel and said slide are held interlocked in their forward firing position and during their initial recoil, and said barrel is tilted out of interlocked relation with said slide during their further rearward movement, said link including a camming surface engageable with said bias element for developing a progressively greater upward bias upon said link during forward movement of said barrel toward its forward firing position, said bias being operative during said initial recoil to urge said rearward portion of said barrel against said slide.

To get a copy of patent, send the number and 50¢ to the Commissioner of Patents, Washington 31, D.C. To communicate with an inventor or assignee, if the address given is insufficient, send a letter to him in care of the Commissioner mentioning the patent number.



WHEELLOCK PISTOLS

The wheellock was a great advance over the slow and cumbersome matchlock, and caused drastic changes in military tactics, especially in Germany and other parts of northern Europe. Shown here is a matched pair of truly magnificent German wheellock pistols with ball butt and ivory inlaid stocks. The tool shown is combination spanner—for winding the spring—and powder measure. Photo by Harry C. Knode.



Pull!

BY DICK MILLER

Is clay target shooting ability an inherited skill, or is it simply acquired by association with a shooting family? Or, do people with shooting skills tend to gravitate together? Which comes first, the shooting skills or the mutual attraction or association? I don't pretend to have the answers. Let the reader exercise his own lively imagination on this column and supply some answers.

A case for either conclusion that might be reached can be made from just one month's shooting news spread before me on my desk. First, there is the news that a father and son, Al and Bob Shuley, have been named to the All-American skeet team, selected for Sports Afield by the great Jimmy Robinson. Did Bob Shuley inherit his storied shooting skills from Al Shuley, or did the younger Shuley's housefull of trophies result inevitably from a shooting environment?

One Skeet Shooting Review headline says, "Alex Kerr Standout In Cart Bower Memorial; Russ Long (his son-in-law), Garberson Also Annex Gun Titles." This is surely a case for attraction and association. Alex Kerr has to be a prime candidate for the title of greatest skeet shooter of all time. It could have been foreordained that his son-in-law would have to be a fine shooter in his own right. Then in the same issue, there is news of the forthcoming marriage of Kathy McGinn and Ed Sedlecky, which will unite two of the best. A child of this union ought to have the ability to break skeet straights in the cradle.

Just one day's shooting news items from Philadelphia begins with a report that William E. Frost and his son Jack tied in 16-yard trap competition at a Torresdale-Frankford event. The next paragraph reports that Mrs. William E. Frost lost high ladies trophy by one target to Mrs. George Siefert.

During the same month, another Philadelphia shooting item is headlined "Frost, Sister Cop Trapshooting Titles." The lead paragraph of the item said: "The brother-sister duo of W. E. (Jack) Frost and Mrs. William W. Remmey scored victories Saturday in the Torresdale-Frankford Country Club's 16-yard trapshooting championships." The item goes on to report that Frost broke 99x100, and Mrs. Remmey topped Mrs. Rhoda Wolf 96-95 for the Ladies trophy.

In another news item from the same club, it is reported that Jack Frost won the sixteen yard title, with William Remmey run-

ner-up. Mrs. Wolf this time edged Mrs. Remmey by one bird for the Ladies crown. To further complicate the Frost-Wolf-Remmey competition, another Eastern news item reports that Dr. and Mrs. Lewis R. Wolf (Rhoda) won several trophies at a Quaker City tournament at Holmesburg, Pa. Here you have everything—father-son, brother-sister, husband-wife, mother-son-brother-in-law, sister-in-law, or you name it.

The same issue of Skeet Shooting Review that reported the Kerr-Long, Shuley-Shuley, and McGinn-Sedlecky items listed a husband-wife skeet victory by the team of Ed and Lee Mabie. This is not exactly news, but I use it because it helps develop my story. I'm willing to wager that there are more skeet shooting news items that report trophies won by the Mabie combination than there are those which do not.

I could go on and on with reports of interlocking shooting relationships and victories, but I suppose we still will be wondering which came first, the egg, or the chicken. The only really competent observation which comes from studying skeet and trap reporting is that the games are truly family sports, and offer top-flight recreation and competition to everyone from grandson to grandfather, and granddaughter to grandmother.

And, speaking of the unusual aspects of clay target shooting, only in the games of trap and skeet can I offer an item like this one. Ed Dunigan of Conshohocken won the Joe Ulmer 81st Birthday Shoot at the Roxborough Gun Club, with a score of 97x100, on a windy day. Joe Ulmer himself competed in the event, and scored just 12 fewer breaks than the winner.

The next shooting item should have been included in our section on family shooting. Bill Hunsberger won a Bucks County F&G shoot at Doylestown, Pa., with a 96x100, topping Al Godshall, William Fentzloff, and M. Mang at 95. The winner of the ladies trophy, Jean Hunsberger, with a 94.

The needle on the record seems to be stuck today. Another shooting item from Roxborough Gun Club reports that Archie Di Paolo won the 16-yard test with a perfect hundred, thereby escaping a shoot-off with a quartet of 99 scores, one of which was shot by Dr. B. W. Mickle. Winner of the ladies trophy in the same event, Mrs. B. W. Mickle, with a respectable 90.

Another Roxborough item reports that

John F. Wilde went wild in a club event, and went home with a new TV set for his victory. Wilde fired a perfect score in the 16-yard section, and dropped only three targets from 22 yards in the handicap event, which gave him the all-around victory and a TV set so that he could relax for a while. Charles Todd won Class A 16-yard in a shoot-off; Fred Lang took Class B; J. McCullough was the Class C victor, and the Class D trophy went to N. Trausac. Mrs. Lewis R. Wolf was distaff 16-yard champ, and the ladies handicap award went to Mrs. David J. Hasinger.

Mrs. C. G. Alio bested Dr. A. B. Hersberger in a shoot-off, 24-23 to win a club shoot at Aronimink Gun Club, Newtown Square, Pa., J. M. Michaels, from Aberdeen, Maryland, and A. A. Dorr, of Marlton, New Jersey, were the big winners in the Atlantic City Gun Club's Spring tournament. Michaels crashed 150 straight in the 16-yard event, and Dorr dropped just one target in the handicap test. Richard Crossan won the 500-target, 16-yard marathon with a score of 494x500. Bill Barrow had to take to the shoot-off route to win a 100 target 16-yard test at the WTA club, Glasgow, Delaware. The Rural Sportsmen's Association meet at Trexlertown, Pa. produced two perfect hundred target efforts, by Warren Horre of White Horse, N. J., and Major William Gates from McGuire (N. J.) AFB.

James Stine, present Pennsylvania State trap champion, isn't relaxing or resting on his laurels. He fired a 96x100 in near-gale winds to top Archie Di Paolo at a Pine Belt Sportsman's Club event in New Jersey. Helen Mickle took the Ladies award with a 92.

The next item reveals that trapshooting fame is also fickle. 108 shooters toed the mark in a Quaker City Gun Club event at Holmesburg, Pennsylvania, including Penn champion Stine, and New Jersey champ Richard Brzezicki. The winner, however, was Tony Vasaturo, from Brooklyn, New York, with a perfect score. Tied for runner-up, one target off the pace—the Pennsylvania and New Jersey champs.

When I glanced at the headline on the next shooting item, I got the wrong mental picture. I'm aware that trained seals are capable of some pretty amazing feats, and during the last week I had just happened to enjoy watching some seals, both from Cliff House in San Francisco, and at Seal Rock in Monterey Bay, California.

As I glanced at the headline, I had visions of a man-bites-dog shooting story to end all shooting stories. The headline said; "Seal Captures Shoot Honors." Now, what would you expect?

Reading further, I found that William Seal of the Wilmington Gun Club had won the annual Beyer Trophy Shoot at Aronimink Gun Club on the toss of a coin, after a shoot-off with C. H. Schenkel and H. L. Beyer, Jr. Beyer had been eliminated in the first round of the shootoff. To complete the item, Mrs. W. W. Remmey, mentioned earlier in our family section, had topped Mrs. C. G. Alio, who also made these pages, for distaff honors, via the shootoff route. Torresdale-Frankford won the team prize, with Aronimink second and Huntingdon Valley third.



MX 175 Plainsman Rifle
Suggested retail price \$29.95



MC 22 Plainsman Rifle
Suggested retail price \$34.95

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THERE IS NOTHING TO PUMP,
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(Magazine capacity:
Model MX175 150 .175 cal. BB's,
Model MC22 75 .22 cal. lead balls.)
Be the first to be on target with
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line of Plainsman Rifles, pistols
and accessories.



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3,048,159; 3,077,875; 3,207,143; 3,084,833; 3,127,885



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Serving Sportsmen 31 Years

SIGHTING-IN NIGHTMARES

(Continued from page 27)

shooting sporter I ever owned shot in two distinct places a couple of inches apart, dependent on how the stock was feeling.

Bedding also will continue to be a point of argument. So far, no one has proved a certain system works best.

While we're blaming the rifles, let's note that thoroughly dried and cured stock woods tend less toward warpage and a low-priced sporter isn't likely to have that kind of lumber. I'm inclined to feel that top custom gun builders who charge around \$500 for a rifle are most likely to give you wood that won't wiggle from humidity or temperature. Probably a laminated stock is best of all.

If I'm trying to get a small group out of a hunting-weight, big game rifle, I generally figure on doing it with a warm barrel—not hot—just warm. Many rifles throw the first shot from a cold barrel well out of the group they'll make with the next four or five. Sometimes the first one is two or three inches out at a hundred—and number one, for the hunter, is the most important of all.

I used to change my scope immediately if the first shot was out, only to find that as the rifle warmed it had to be changed again. My notebook proved my pet would play the same trick the next day. I don't even own a big game rifle without a telescope sight but a lot of bad shooting is the fault of scope mounts

and, occasionally, the scope itself.

Attaching a rigid scope mount is a simple operation if your rifle is tapped for it, but just how tight the fragile little screws will go without breaking is known only to experts. I have had four different scope mounts shoot loose. The new adhesive solutions that cause screws to stay put are a big help. A gunsmith I know used to rust the screws in with vinegar.

Loosened stock bolts won't cause you to miss a moose in heavy timber but they can insure the safety of a coyote at 300 yards. I have a rifle that loosens them gradually and those bolts must be tightened every 20 shots.

I have never trusted easily removed scopes for long range shooting unless each individual installation is carefully tested. If it's one of those lovely gadgets that really puts the scope back on zero every time, buy abalone inlays for it and treasure it—but check it!

Hard knocks can change zero and you're taking chances if you hunt more than a few days in rough country without checking. In British Columbia last fall, another guy and I unhappily blasted away at a paper target on a hillside while a wrangler cursed us and his spooked horses.

But something had to be done. Although he had sighted in carefully at beginning of the trip, my friend had missed a ram at close range. His scope was eight minutes off, even though he couldn't remember any extra hard bumps.

So what can you do about all this now that the exact science of sighting-in doesn't seem exact any more? Start out with the bench or a reasonable facsimile. The hood of a car is a poor second choice but beats nothing. When you get your gun shooting where you want it, let it cool off and try it again in a day or two.

If it's still good, try it offhand, prone, and sitting, both with and without a sling. Plot your groups in a notebook. If any of the positions show a consistent tendency in a given direction, you'll simply have to remember it and hold off if you use that position.

Complicated? It sure is. Fortunately in long range shooting there's usually plenty of time. If there isn't, you shouldn't shoot. So decide just what position you're most likely to take in case you do some reaching. If you plan to use a rest for long shots (most of us do), decide just how you're going to hold your rifle on a log, tree, or rock. If you plan to rest it on a coat, hat, or gloves, shoot it just that way in your pre-hunt checking.

Few of us can shoot a sporter offhand well enough to take full advantage of its accuracy. He who kills game offhand at more than 200 yards is either pretty good or pretty lucky. Generally it's only in the sitting, kneeling, or prone positions that you worry about a wandering group. The usual tendency is to shoot lower from these positions than from a rest and if you've done some careful double-checking, you'll know how much.

After all, ammunition is about the cheapest part of your hunting season, so make full use of it.



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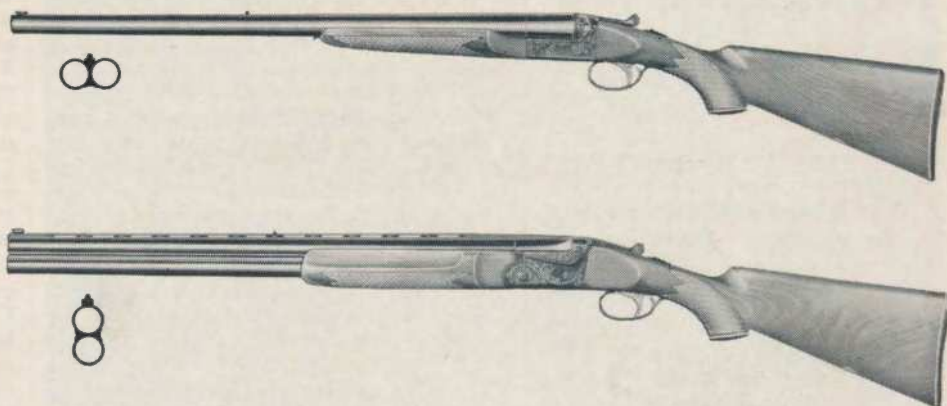
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ROMAN CANDLE GUNS

(Continued from page 25)

gunmakers including the Spanish and English during the period when various forms of the flintlock were in use. Some of the guns had more than one lock on the right side of the stock and others used right and left hand locks with a single barrel.

Charles Cardiff is generally credited with being the earliest to promote the superposed charge idea in England—as early as 1682. His patent granted him the right "expedient with security to make muskets, carbines, pistols or any other small fire arms, to discharge twice, thrice or more, severall and distinct shots in a single barrel and locke." I have in my library a rare little volume published in 1781 and titled "A Description of Double-shot Firearms;" it was authored by John Aitken M.D., of London. Dr. Aitken inscribed his technical review "To his Royal Highness, George Augustus, Prince of Wales," suggesting that military science was universally and justly regarded as an important object of Royal attention.

A pistol, blunderbuss, sporting gun, musket, and cannon are illustrated and described in Dr. Aitken's book. His system called for heavy wadding or "colfing" between the charges, which theoretically could be fired at will. The major argument given in favor of guns with superposed loads in one barrel over double barrel guns was that they were much lighter and could be handled with greater dexterity.

At the time of Dr. Aitken's gun in the 1700's, or possibly even a little before it, an odd-looking flintlock breechloader was made in Europe. The gun is illustrated in Plate 13 of M. Thierbach's "Handfeuerwaffen" book published at Dresden in 1886. This flintlock gun employed a long magazine into which prepared superposed loads were inserted, and it operated on the uncontrolled Roman Candle principle, spewing out its shots like a full-automatic machine gun. We might say that Roman Candle guns of this rapid-firing type were the burp guns of an earlier century.

There is good reason to question the reliability of a gun from whose barrel as many as sixteen shots were expected to pour forth in rapid and orderly fashion. Obviously the ignition could reach only the anterior charge. What if only part of the charges were ignited? One might reload the empty portion of the barrel whence the fired shots had come, and hope for better luck on the second go-around. Or he might undertake the tedious job of pulling the ball responsible for clogging the chain of ignition. Or he might throw the gun in the river.

In the firing of uncontrolled multiple charges, several types of balls were used to permit the fire from forward charges to ignite posterior charges. The bullets most often mentioned are referred to as the "espigole" type. They were perforated and the perforations fused with a detonating compound, which, when ignited by the flash from the forward charge, burned through the ball and set off the charge behind it.

American involvement in making guns for superposed loads is said to have originated in a patent granted to Joseph Chambers on March 23, 1813. Very few Chambers guns were made and their method of fire has been somewhat controversial, some evidence indicating the mechanism provided controlled fire, and other researchers claiming that Chambers guns rattled the shots out in true Roman Candle fashion. It is possible that Chambers might have experimented with both types; or that Chambers multi-barrel swivel Navy guns, which did fire on the Roman Candle principle, were confused with his controlled fire rifles and muskets.

We are told in "Small Arms and Ammunition in the United States Service" by Col. Berkeley R. Lewis that in 1814 a contract for 200 muskets of Chambers controlled fire design was undertaken by Tryon & Henry of Philadelphia and in 1815 Lewis Ghriskey of the same city was given a contract for 100 rifles. A rifle of this latter style with a sliding lock is illustrated in Col. Lewis' book. A few pistols were made on these principles, one being illustrated in Plate 28 of Sawyer's "Firearms in American History."

A man with an inventive turn of mind named J. Jennings was impressed with the Chambers system and got busy at his workbench. By September of 1821 he had been granted a patent for an improvement on the Chambers system and seven years later (in 1828) Reuben Ellis of New York City was given a contract for 520 rifles of the Chambers-Jennings multi-shot pattern, with its self-priming flint lock which slid backward and forward in a mortised channel. These guns were destined for the New York State Militia.

Ellis is reported to have purchased parts for his guns from contractors of the U. S. Model 1817 "common rifle." The barrels were made by R. & D. Johnson. Stocks and hardware were of standard Model 1817 pattern as made by arms contractors Simeon North, Henry Deringer, Nathan Starr and R. Johnson.

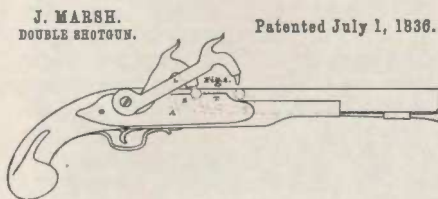
The standard capacity for rifles of the Jennings sliding-lock system was four charges, although one of 10-shot capacity with S. North stamped in the lock is known; this rifle may have been experimental. The gun illustrated here has no name on the lock, but the barrel is marked US-JM-P. The JM initials are those of Justin Murphy, a U. S. arms inspector of the 1813-1833 period. This rifle is of the standard 4-shot capacity. The lock is designed with a built-in priming-powder magazine which automatically feeds powder to the pan when the hammer is cocked. Only three touchhole covers are needed, the front vent being directly in line with the flash pan when the lock is at its proper forward position for the initial firing. A long bar within the lock mortise is raised by pressure of the trigger; this trips the sear and releases the cocked hammer, regardless

of the lock's position in its metal-faced channel.

Not many years after the flintlock sliding locks were introduced the percussion cap began to replace the flint. By this time American gunmakers were disenchanted with the sliding lock principle but it appeared in British caplock rifles and pistols, primarily following the specifications of Jacob Mould, whose English patent for guns of this character was granted in 1825. A pistol made on this plan is illustrated.

The first U. S. patent found for a caplock arm to employ superposed charges is that of Johnson Marsh dated July 1, 1836. This was a very simple system which required a somewhat elongated side lock and curved hammers of different lengths, both operating from the same tumbler. Two charges were loaded in the single barrel.

Marsh appears to have set something of a precedent; following his patent, quite a few arms were put on the market whereby two shots from one barrel might be ob-



Original patent of Johnson Marsh, for a pistol with double hammers.

tained. Pistols were the special objects of this productivity which ran its most active course between 1855 and 1860.

Following Marsh came Daniel Neal. Neal's patent of February 27, 1855 claimed as its novelty an elongated hammer and a false hammer. The false hammer was hinged so that it might be placed above the forward nipple; when the elongated hammer fell it would strike the false hammer, detonating the forward cap, but held in a position where it could not reach the cap on the rear nipple (percussion cone). When the false hammer was swung away from the forward nipple a rear striking face on the elongated hammer was permitted to fall low enough to strike and detonate the rear percussion cap—a sort of Rube Goldberg contraption.

In September of 1855, F. Beerstecher of Philadelphia patented a firearm of the superposed 2-shot type, and Beerstecher weapons are today highly prized by collectors. Living in the city where Henry Deringer, Slotter & Co., and others were turning out hundreds of the little caplock pocket derringers, Beerstecher designed his double-shot system with these little pistols in mind; the great majority of Beerstecher weapons are small pocket pistols.

"I do not claim the general arrangement whereby two loads may be discharged in succession from one barrel without reloading, as such arrangement is not new," Beerstecher state. "But what I claim as my invention and desire to secure Letters Patent, is—Constructing the head of the hammer of firearms of this description so that the

part of the head which discharges the forward load shall be capable of being turned down for the purpose of allowing the shorter part of the head to strike the rear tube only, and so that when turned up it shall strike the forward tube only without the use of the intermediate covering-lever heretofore required, for the purpose of preventing the explosion of the rear cap in firearms of this description."

In brief, what Beerstecher was saying is that his hammer with a hinged nose was far superior to the clumsy contraption that Daniel P. Neal patented earlier in the year! It probably was better received, for we find a moderate number of Beerstecher pistols in collections, but the Smithsonian Institution is the only place I know where a Neal pistol can be found.

(To Be Continued)

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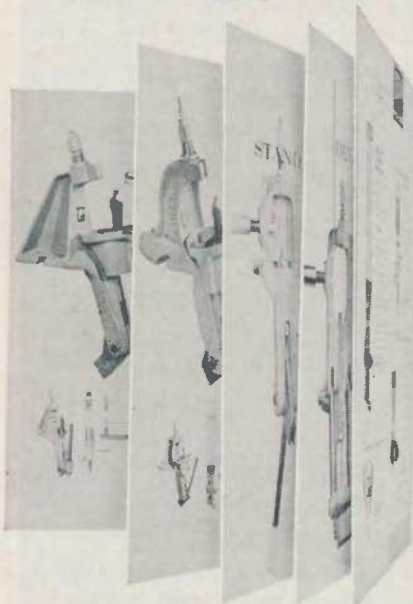


*Patent applied for.

(Continued from page 33)



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the birth of this famous slogan of the firearms world. "One day in the spring of 1904, the George Batten Company got a telephone request to send somebody down to talk advertising with Fred I. Johnson (Iver Johnson's son) at the New York office of the Iver Johnson's Arms and Cycle Works. William H. Johns, vice-president of the agency, responded and found Mr. Johnson much interested in the subject. Quite a conversation followed. Mr. Johnson exhibited some of the advertisements his house had published for its revolvers. Throughout the advertisements ran one claim of superiority, embodied in the phrase, 'Accidental Discharge Impossible.' 'What do you think of our advertising anyway?' asked Mr. Johnson. 'Why, it looks pretty enough,' replied Mr. Johns, reservedly, 'but it isn't true.' 'It is true!' insisted Johnson. 'I don't believe it,' persisted Johns, skeptically. 'Accidental discharge isn't impossible with your revolver, or anybody else's. That is a great mistake—to mislead the public by exaggerated claims of this kind, either in advertising or by salesman's talk.' Then, as Mr. Johns tells the story, an Iver Johnson Safety revolver was sent for. When it came in from the stock-room, Mr. Johnson loaded it with ball cartridges in the presence of the advertising agent. Then he threw the loaded weapon with full force against the fireproof safe ten feet off. It clattered to the floor. Mr. Johnson picked it up and threw it recklessly against a table. He picked it up again and threw it around the office. Johns begged him to stop. Cold perspiration was running down the latter's spine, and he admits that he was never so frightened in his life. Johnson went right ahead with his demonstration, however, and wound up by taking a hammer, pointing the weapon at his own leg, and pounding the hammer of the revolver with all his strength. 'Do you believe it now?' he asked finally. 'For Heaven's sake, yes—there is no doubt about it,' admitted Johns. 'But why have you never given the public such simple striking proof to back your claim as you have given me? Why have you been satisfied all these years to stick to a bald claim that looks like a lie when you can make such a convincing test?' Mr. Johnson said that making this point plainer to the public was exactly what he wanted an advertising agency to do. Out of that demonstration grew the now famous phrase, 'Hammer the Hammer,' the characteristic talking point of the most widely advertised revolver in the world."

By 1909, after five years of hammering home the "Hammer the Hammer" slogan, Iver Johnson's Arms and Cycle Works was in a position to make the statement that sales of its revolvers equaled those of all other manufacturers in the United States combined! This claim apparently went unchallenged as to its validity by competitors. Two million Iver Johnson "Safety Automatic" revolvers were sold during the first fourteen years that they were on the market, this figure rising to three million by 1911. The manufacturers alleged that throughout

this production period, an instance of accidental discharge of one of these revolvers was never reported.

With the launching of the "Hammer the Hammer" campaign in 1904, the "Safety Automatic" revolver soon became Iver Johnson's primary "bread and butter" product, although throughout their history they have produced a wide variety of other revolver models as well as shotguns and rifles. The secret of the phenomenal sales success and prestige of the "Safety Automatic" revolvers lay in their accident-proof construction—the firm continuously reiterating the fact that one could literally "hammer the hammer" without fear.

The hammer itself never touches the firing pin in these "Safety Automatic" revolvers. The cutaway nose of the hammer rests only against the solid steel frame and no conceivable impact can force it against the firing pin. Attached to the rear of the trigger is the long upright "lifter." When the trigger is fully retracted, this lifter is raised until it interposes the falling hammer and the spring-actuated firing pin located in the frame proper—thus effecting cartridge ignition. Upon release of finger pressure on the trigger, the trigger spring forces the trigger forward and simultaneously lowers the lifter—again establishing clearance between the hammer at rest and the firing pin. "Safety Automatic" revolvers were also manufactured in hammerless models but advertising copy focused predominantly on the hammer models which lent themselves more obviously to illustrating the "Hammer the Hammer" test for safety.

The Iver Johnson officials were so convinced of the unique superiority of their safety principle of revolver construction that the company's advertising copy of 1911 carried the following statement, "When our patents expire, every revolver in the world will have the famous Iver Johnson Safety Action." Despite this conviction on the part of the originators of this recognizably sound principle of safety, no other manufacturers ever resorted to it but rather developed their own safety actions such as Colt's "Positive Safety Lock" among others.

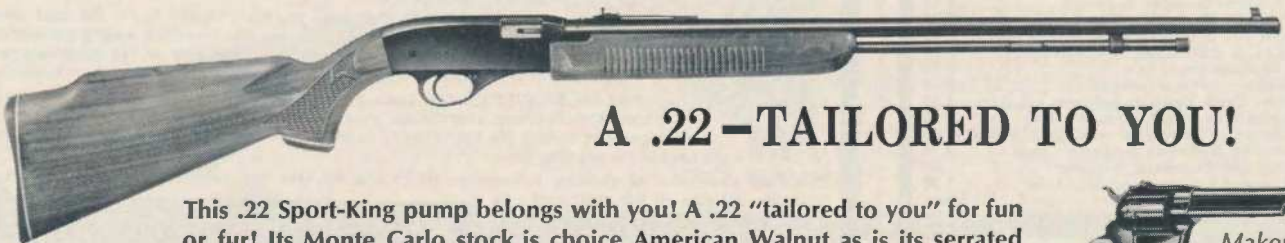
From the time of their introduction until their discontinuance, Iver Johnson "Safety Automatic" revolvers underwent only one major modification which occurred in 1908. At that time coil springs replaced all flat springs and these revolvers were fitted with an adjustable mainspring tension bar, ball-socket mainspring plunger and hammer contact with the "lifter" fashioned of vanadium steel. Specimens with flat springs are referred to by collectors as "old models" whereas those with coil springs are known as "new models."

The venerable "Owl-head"—Iver Johnson's "Safety Automatic" revolver—finally was discontinued in 1950, after a redoubtable run in excess of half a century, to take its place of distinction in the development history of American firearms and of respect in the collections of knowledgeable firearms connoisseurs.



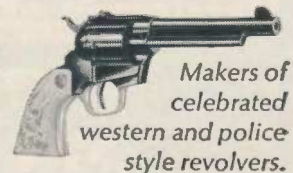


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GUNS OF THE CINDER DICKS

(Continued from page 22)

police work and who finally formed the "Railway Association of Special Agents and Police of the United States and Canada." The birth of this organization took place in 1897. Its title has since changed but the organization is still very active. It might be mentioned that many of the railroad companies also hired private detective agencies such as the Burns, Pinkerton, Fields, and others. Generally these services were used before 1895.

Of prime interest here are the firearms used by the Special Agents. In the early frontier days it was not uncommon for the Special Agent to supply his own guns and ammunition. One old timer said he usually carried three heavy revolvers, these ordinarily being .44 or .45 caliber, a rifle, and about 500 rounds of ammunition. In fact he said he would rather have plenty of ammo than plenty of food when hunting outlaws. Under the leadership of Special Agent Tim Keliker of the Union Pacific Railroad, a special "posse" of picked men were organized to apprehend the "Hole in the Wall" gang, also known as the "Wild Bunch." This special posse was a group of men who were of proven courage and who had unusual skill with firearms. They were provided with heavy caliber service revolvers and high power rifles, plus plenty of ammunition for a long siege.

In the Union Pacific Museum, at Omaha,

Nebraska, they have a fabulous collection of guns that are a definite part of frontier history and of the Special Agents of the Union Pacific. In one group of four guns displayed, used or confiscated by Special Agents, we find a Colt Dragoon, a flintlock pistol, a "pepper box" revolver, and a double action .32 caliber Smith & Wesson. A real variety to say the least, from flintlock to center fire metallic. Another interesting weapon in the Union Pacific Museum is a 1873 Winchester rifle, serial no. 55382, in .44 caliber. Used by one of the UP's Special Agents, it has a sawed off barrel for quicker action.

Many of the railroads bought up surplus shotguns from Wells Fargo and other express companies. Many of these were sawed off double barrel models from Ithaca, Remington, Richards, and others. Twelve was the popular gauge. These shotguns have been found to carry the former markings of the express companies, plus the railroad company's name or initials. One of the Chief Special Agents recalled selling a number of old rifles to a gun dealer and they were all marked "A & P RR" which was the company chartered in 1866 to build a railroad from the western boundry of Missouri to the Pacific Ocean.

From time to time I have encountered or have been questioned about unusual mark-

(Continued on page 54)

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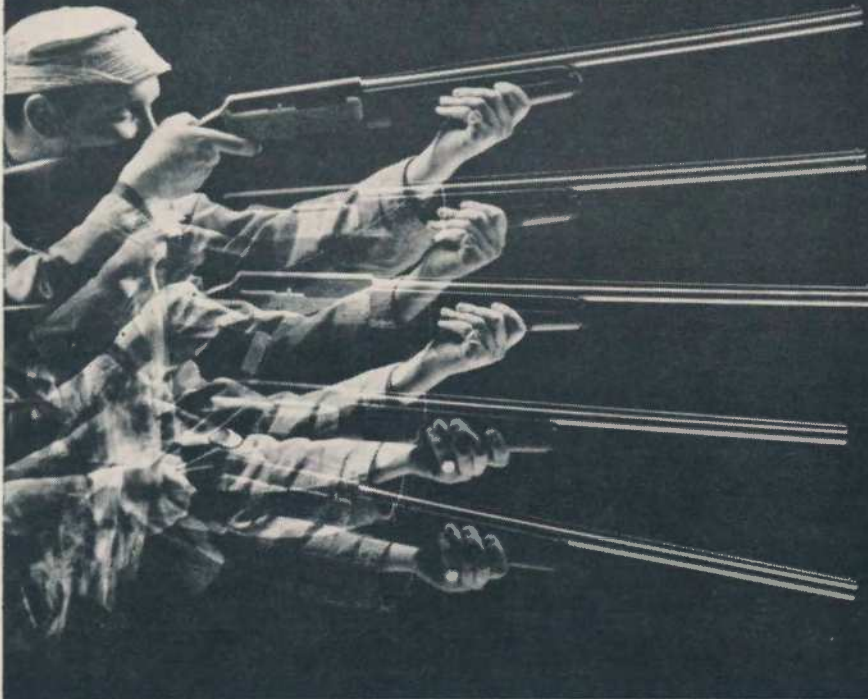
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(Continued from page 52)

some old railroad now defunct. While some railroads issued these guns to their Special Agents, others had their agents supply their own. In many cases where the railroad did not issue marked guns, the agents were so proud of their association with the line that they would have the name of the company engraved somewhere on the gun. I have come across a Colt Bisley Model that had the Santa Fe Railroad name engraved on the backstrap. It might be well to be especially careful in accepting as authentic any gun with railroad company markings, because these markings are sometimes difficult to authenticate. So check your sources.

The railroad companies and their Special Agents used just about every type and make of weapon that was available at the time. These included cap and ball models by Colt, Manhattan, Remington, and many others. In the metallic cartridge models, they used Colt Single Actions, Lightnings, New Service, Police Positive or Special, and .45 Automatic. Smith & Wessons in all calibers and the early Winchester saddle ring carbines were particularly popular. Another Winchester model bought in large quantities was the M97 pump in 12 gauge.

Today, riot guns, shotguns, and sub-machine guns are available for use in emergencies and for protection of particularly valuable shipments. It is a far cry from the "Wild West" days when the main requirements for a Special Agent were accuracy in shooting a pistol and a quick draw. The railroad police of today are police officers of the highest caliber. They are trained in all the modern methods of crime detection. Their record speaks for itself as they have secured close to a 98 per cent conviction rate on all cases tried, with some 60,000 arrests effected during a yearly period.

Of prime importance in a railroad policeman's training and work, even today, is the knowledge and use of firearms. He is still confronted, as in the frontier days, with situations in which his life and the lives of others depend on how he uses his guns. The railway police must familiarize themselves with the proper handling and care of firearms.

Expert, individual instruction and training on the proper and proficient use of firearms is given to all Special Agents. Some railroads have pistol teams which participate in matches with other divisional and regional teams of their particular railroad and against teams from municipal police departments and other law enforcement agencies.

As in any type of police work, a railroad policeman is constantly risking his life. The element of risk is always present. Testament to this lies in the cases of badges which rest in the offices of many Chief Special Agents; badges of agents killed on duty.

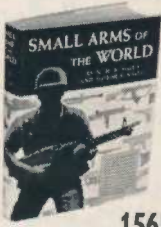
This story would neither be complete nor possible without mentioning H. W. Hawley, presently the Claims Agent for the Southern Pacific Railroad Company. He supplied a great deal of the material and information for this article which in turn was inspired by his unique collection of stars, shields, and badges from over 131 railroads.

Though the complete history of the Special Agents will probably never be known, it can be said with certainty that they knew how to use their guns, and that they used them both well and safely.



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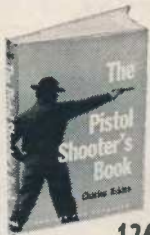


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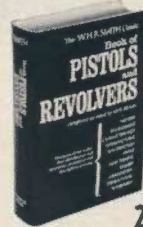
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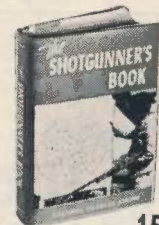
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.45-70 SPRINGFIELDS

(Continued from page 31)

ramrod head smaller and slotted, but not grooved, clean-out hole at end of ramrod groove under front end of guard plate, April, 1879; lip placed on under side of hammer head, January, 1880;

Model 1884—breech-block dated 1884; "Buffington" rear sight; straight, corrugated trigger, March, 1883.

Model 1889—ramrod bayonet; breech-block dated 1884; sling swivel riveted to trigger guard.

There was a cadet model issued which corresponded with the Model 1873, 1879, and 1884 in every respect except for the reduced size. These arms were issued to cadets at United States academies, and there is evidence that they were used at private military schools, probably those offering reserve officer training. The over-all length of each model was seven inches shorter than its standard rifle counterpart; the barrel was approximately three inches shorter, and the stock four inches. The bayonet blade was 16¼ inches long and was a special issue—not a shortened rifle bayonet.

Cadet rifles are found both with and without sling swivels on the upper band. Some collectors maintain that it, properly, should not have a swivel; others hold that the Navy requested the swivel on rifles issued to them.

There were three carbine models corresponding with the rifle models of 1873, 1879,

and 1884. Obviously, as the carbine was carried by cavalry troops, no carbines with a rod bayonet, as came on the Model 1889 rifle, were manufactured. The carbine barrel is 22" long and the stock is 30", dimensions of other parts are the same as for the rifle. The 1873 carbine had a swivel attached to the band and did not have a trap in the butt for the cleaning rod, as did the later models. The 1879 sight had a "C" on the left side to indicate that it was a carbine sight graduated differently from the rifle sight. Some collectors maintain that there is a Model 1890 carbine; they have reference to the late issue 1884 models that had the plain band replaced by a band with a projecting "hump" for the purpose of protecting the leaf of the Buffington sight. This band was placed on carbines beginning October, 1890. Carbines manufactured after December, 1890, also had a front sight cover held by the sight pin.

Collectors sometimes have difficulty in selecting what they consider to be a completely original model. There are three major reasons why there are so many "mixed" models in existence. One is the fact that a number of modifications were implemented between model changes, for example, a straight, corrugated trigger rather than the curved plain one was adopted in March, 1883. Another reason is that many of the

(Continued on page 58)



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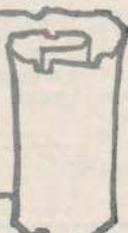


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(Continued from page 56)

weapons were repaired and had parts replaced, either in the field, or at the arsenal. Another factor that has created confusion is the fact that part changes and variations were often made at a substantially later date than the officially approved date for the change. There is reason to believe, for example, that the Buffington sight did not actually appear on Model 1884 rifles until 1885. There are rifles which were made in 1885, verified by both stock date and serial number, which carry the 1879 sight. I have yet to see a Buffington sight on a rifle with an 1884 stock date.

A very important key to identification of the .45-70 rifle is the serial number. Much can be learned from the serial number when correlated with the stock date and other features of the rifle. From my own study of serial number I have been able to establish certain facts which I believe are fairly reliable. As far as I can ascertain, Model 1873 rifle serial numbers ran to 73,000. It appears that carbines and cadets were made in alternate blocks of serial numbers. Blocks of Model 1873 cadets and carbines with higher serial numbers than the rifles may have been manufactured after the last block of rifles. The 1879 Model serial numbers ran to about 280,000. The highest Model 1889 rifle number I have seen is over 560,000; perhaps these numbers run to 600,000, but not over that. This model, the last of the .45 caliber Springfields was discontinued in June of 1893. The last carbine was a Model 1884 with an 1890 band and serial numbers 80 to 450,000. The lowest numbered carbine I have knowledge of is slightly over 2,000, which indicates that a block of carbines was manufactured very soon after the adoption of the 1873 rifle. I have seen Model 1873 cadet rifles with numbers between six and seven thousand which indicates a fairly early block of cadets. I have also seen numbers up to 47,000 on this model which would indicate several blocks of weapons made at different times.

One interesting enigma is that occasionally a .45-70 rifle is seen which carries a star after the last digit of the serial number. The one I have is a Model 1879, serial number 165,718. There has been a great deal of conjecture regarding this, but no one seems to really know its meaning.

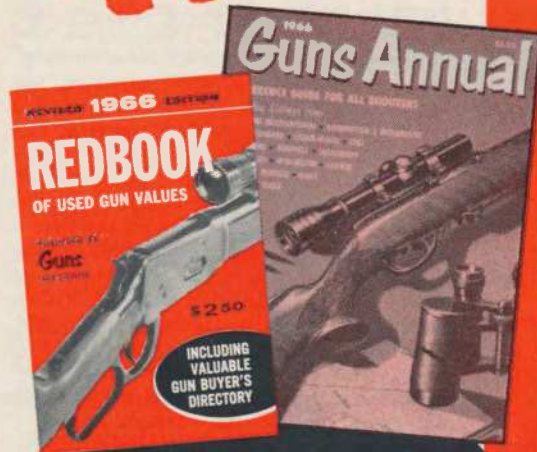
The models described below are those that were issued to troops in limited numbers for trial. Before describing the special issues I would like to express my opinion regarding the controversy as to whether or not there was a Model of 1877. On page five of the U. S. publication mentioned previously a Model 1877 rear sight is described. Nowhere in this manual, or in any other reference that I can find, is there any reference to a "Model 1877" rifle. A rifle with the Model 1877 rear sight would be the Model of 1873 with a "Model 1877" rear sight; the only modification to the Model 1873 rifle prior to 1877 was an alteration of the underside of the firing pin guard, a modification begun in March of 1876.

The 1880 triangular rod bayonet: One thousand of these rifles were made and issued to troops for trial. Other than the triangular rod bayonet, the rifle was identical to the Model 1879 except that it had a

(Continued on page 60)

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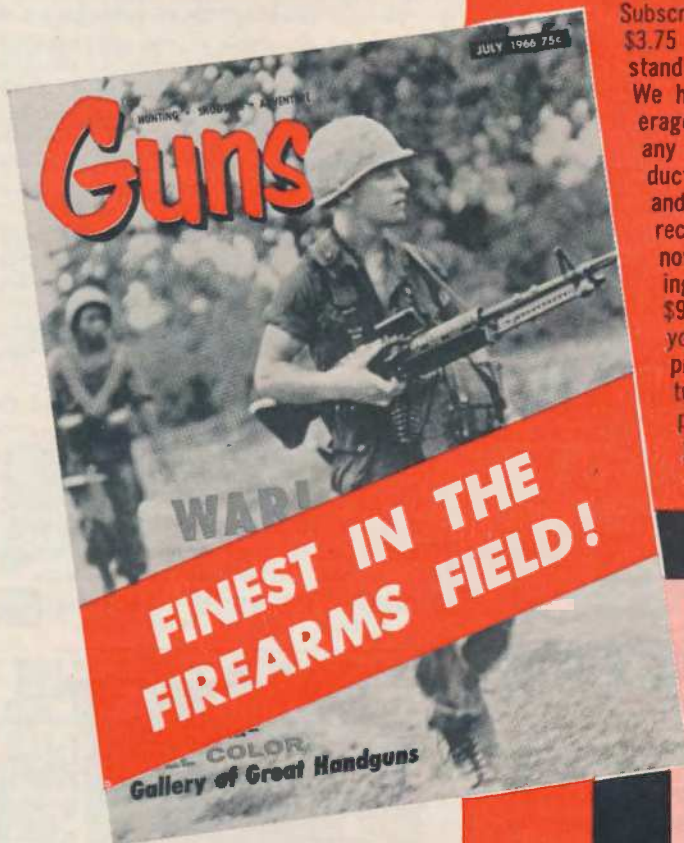
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(Continued from page 58)

trap in the butt for a cleaning rod. This rod did not prove successful and the socket type bayonet continued in use.

The 1882 Short Model: This weapon was an effort by the Ordnance Department to design a single weapon which would be suitable both for mounted troops and foot soldiers, that is, a single arm which would replace both the longer and heavier rifle, and the carbine. In addition, they wanted to revert to the use of one cartridge for both carbine and rifle. The 1873 carbine and rifle were chambered for the same cartridge, but after 1879 a different cartridge was used for each. Fifty of these experimental rifles were issued for trial to troops at Fort Leavenworth, Kansas.

The Model 1884 round-rod bayonet: This rifle carried the Bufington sight and was identical to the Model 1884 except that it had a round, rod bayonet. Only 1000 of these rifles were manufactured, probably all of them in 1885 as the letter authorizing their manufacture was dated December 17, 1884. These can be identified from the later 1889 model with a similar bayonet due to the fact that the lips of the locking piece do not extend around the bayonet.

Officers' Model: The U. S. Rifle, Officers, Model 1875, had a 26" barrel and a checkered half-stock tipped with silver. Other features were an 1873 type rifle sight, a single set trigger, and a wooden ramrod. Two later issues carried pistol grips and a buckhorn sight. The last, or third issue, had a cleaning rod in the butt rather than a wooden rod under the barrel. All issues had globe and peep target sights. The Officers' Model did not bear serial numbers.

Forager shotguns: These were issued to troops, on the basis of one per company, for the purpose of supplementing the company's food supply. Little is known of the number manufactured, but serial numbers of these guns of which I have knowledge are between 150 and 600. Briefly described, they were: dated 1881; 20 gauge; 45 1/2" over-all, and with a 24 1/2" barrel.

Match Rifle: It is not generally known how many 1873 match rifles were manufactured, however, a few are in existence. This rifle had a heavy octagon barrel, 28 1/2" long. It was provided with target sights; the stock was a regular rifle stock—altered and checkered.

This, then, is both a chronology and detail in the development of this important weapon; the last single shot arm used by U. S. troops. I hope that the information will be helpful to those already interested in the 45-70, and will create a measure of interest on the part of other collectors for a rifle that bridged the span between the percussion lock and the bolt action in military firearms development.

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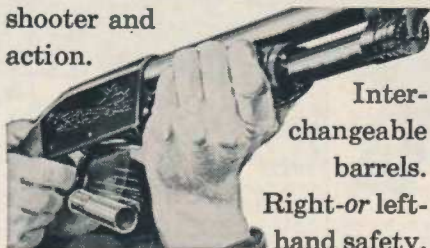
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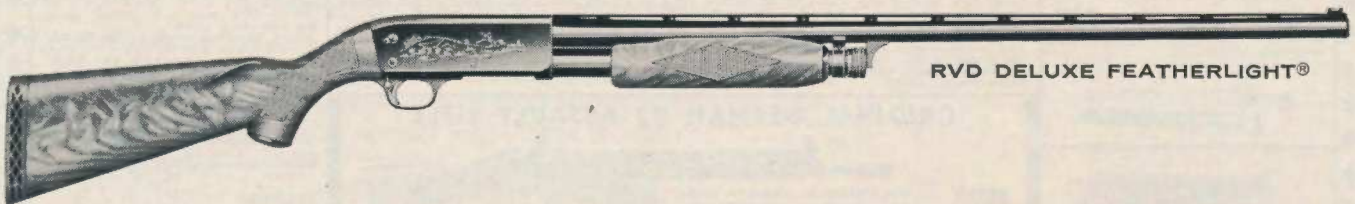
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BARREL INSERTS

(Continued from page 29)

feature in which claybird shooters have shown much more interest than have hunters, since it makes it easy and cheap for them to compete in additional events.

Some rifles are more particularly adapted to conversion than others. The various .22 caliber center fire calibers, for instance, can readily be made to handle .22 rim fire cartridges. With the Walther *Reduzierpatrone* (actually "reduction" cartridge), a single or double barrel rifle which breaks open, and is chambered for the .222 Remington cartridge, can be speedily converted to handle either the .22 LR or the .22 RF Magnum. Walther also makes an *Einsteckpatrone*, which converts any .30-06 rifle (even bolt actions, since it can be fed through the magazine) into an indoor practice rifle which shoots their 4 mm M20 round. This ammo is made by RWS, but is rather difficult to locate in the U.S.

There are other rifle conversions made, such as the Hirtenberger *Ladekonus*. This is primarily a cartridge case which accepts a sub-caliber bullet and a primer. It was used to train recruits for the Austro-Hungarian army in the use of the 8.2x50R service rifle.

Another, similar to the *Ladekonus*, is the Dreyse *Zimmerpatrone*. This still has a strong following in Germany, and is used in Austria as well. Unlike these two, which

are similar to the old Marble Auxiliary cartridge, there is also the Erma *Einstecklauf*. This is a barrel insert for the M98 rifle which converts either the 7x57 or 8x57 to .22 RF.

Somewhere between the rifle inserts and the shotgun gauge reducers we have the Krieghoff insert barrels. These inserts are designed to allow the shooter of any single or double barrel shotgun to fire the .22 LR or the .22 RF Magnum.

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(Continued on page 68)

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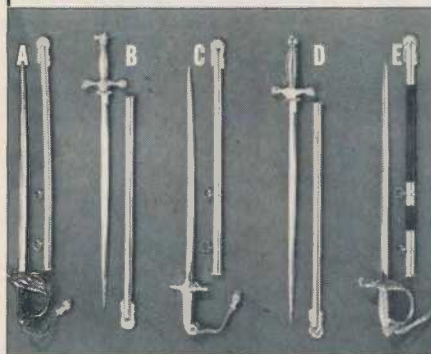
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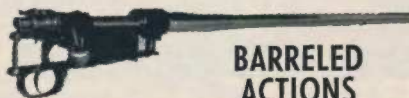
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(Continued from page 62)

The use of a Krieghoff insert makes it necessary to equip the rib of the gun with a rear sight. A folding rear sight that does not interfere with the front bead sight is available from Harry Owen, who imports the inserts (11955 Salem Drive, Granada Hills, Cal.) and I found that the combination of this folding sight and the Lyman bead sight is perfect for a double. The .22 LR insert sells for \$24, the Magnum goes for \$28.

Installing the Krieghoff inserts is not much of a chore and very little fitting is required. There is a provision for headspacing the insert, and the insert barrel is fully adjustable so that you can, within a few rounds, not only sight-in the device, but you can also shift the point of bullet impact on the target—very much like when using a scope on a rifle. Accuracy with all sorts of ammunition is more than adequate for hunting at the ranges at which either a .22 LR or a .22 WRM cartridge might be used. For the .22 LR, sighting-in for 50 yards is suggested, the .22 WRM is best sighted to print dead-on at 75 yards, giving the Magnum insert a reasonably good trajectory up to 100 yards.

With .22 LR high velocity ammo, the average MV was 1200 fps, which, considering the short barrel of the insert, is not at all bad. Magnum MV averaged 1800 fps.

The use of a Krieghoff Insert Barrel has a number of advantages. The hunter, whose double or drilling is equipped with a Krieghoff insert, has the edge over his hunting partner who, although using a double, is

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limited to using shot or slugs. If pheasant hunting is poor and the rabbits sit close, the use of a .22 caliber insert in one barrel will assure meat in the pot, providing of course you can hit a running rabbit with the .22 bullet and providing the use of rifle ammo is legal in your area. Very often the upland hunter will happen upon a fox or a woodchuck at a range that is beyond that of the shotshell, and then the .22 LR or the .22 RF Magnum will come in mighty handy. If the hunter starts his day's hunt with the insert in his gun and game for the rifle is scarce, then it is a simple matter to remove the insert and instantly have the second barrel of the shotgun ready for shot loads.

Each of the Krieghoff inserts is factory checked for accuracy before being shipped. At 50 meters (54.6 yards), maximum dispersion is not permitted to be bigger than 4x4 cm. (1.57" x 1.57"). The inserts which group 2x2 cm. (0.787") are set aside and marked "Extra" and these are sold at a higher price.

I have used various types and kinds of inserts over the years, but this Krieghoff Insert Barrel, especially the one that is chambered for the .22 Magnum cartridge, makes so much sense to me that I'll equip my own double with one of them before next hunting season.

With the demise of the Marble auxiliary cartridge, shooter interest in the various rifled tube inserts lagged, but the increased availability of the Walther inserts has again stimulated the interest of American shooters in their use. One of the major reasons that inserts have never become overly popular here is the fact that many riflemen always assumed that barrel inserts were toys or gadgets. Nothing could be further from the truth. I believe that barrel inserts for rifles, and to some degree those designed for the smoothbores, never became popular here to any great degree because owning a second, third, or even fourth rifle or shotgun is not an economic impossibility for many hunters. Moreover, many shooters felt that using an insert was too much trouble, that there was little sense bothering with them since ammo costs are not as high here as abroad. Since many of today's shooters are handloaders, the cost factor of ammunition is further reduced.



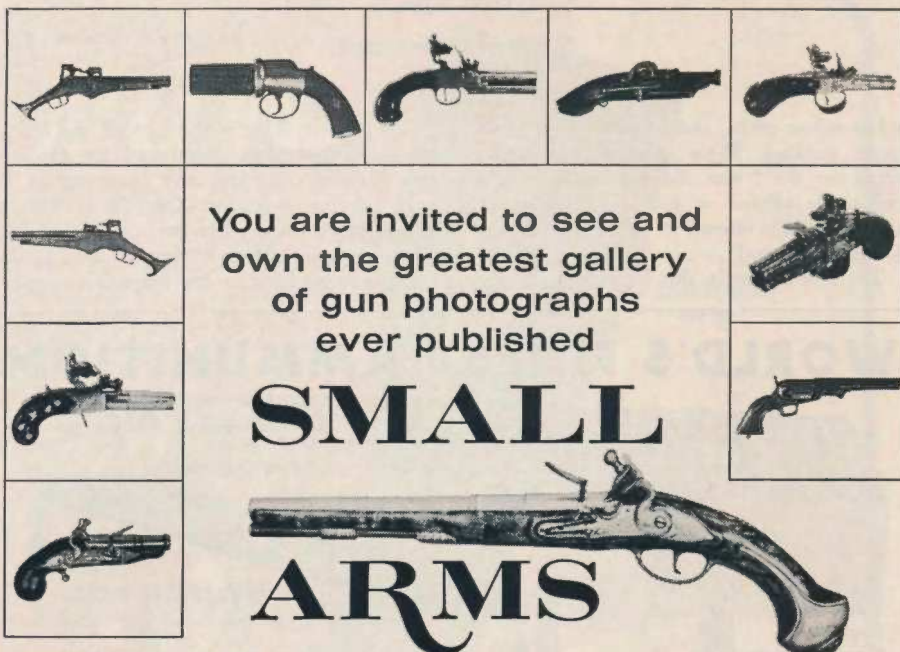
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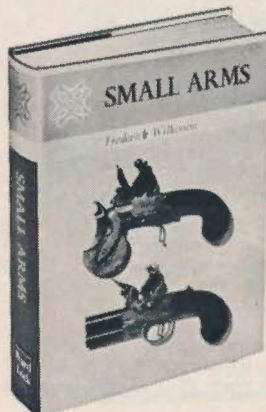
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GUN RACK

(Continued from page 8)

a few minor nicks, undoubtedly from inadequate packing. These two are also chambered for the 7 mm Mauser cartridge. The carbine is offered at \$39.50 (NRA good), and the rifle is offered at \$34.50 (good) and \$39.50 (very good).

The fourth gun in this lot was the Model

71/84 Mauser. This is the first of the Mauser repeating rifles, chambered for the 11 mm Mauser cartridge, and featuring an 8 shot tubular magazine. Offered at \$19.50 (NRA fair), these rifles are a real find for the collector of military weapons, and, if the sample we received is any indication, servic-

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able enough for those who care to shoot them.

All of the guns were tested for head-space as soon as they were received, and all checked out OK. During the course of our tests, more than 100 rounds were fired through each of the guns, except for the 11 mm which consumed the last 25 rounds we had available. Functioning was flawless on all models, and accuracy was at an acceptable level.

B-Square Chronograph

This is a highly portable, compact chronograph that, in extensive tests lasting well over six months, proved to be consistently reliable. The B-Square instrument, in contrast to most of the other units now on the market or which were at one time popular, does not offer a direct read-out of velocities. The usual bank of small bulbs used to indicate elapsed time has been replaced with a manually operated read-out switch. This is something of an improvement over the bulb



system since the bulbs often faded out when used in direct sunlight. A wrong reading sometimes resulted with the bulb type units simply because I couldn't tell whether they were lit or not.

The B-Square unit comes with screens and screen holders, but without batteries. The operating manual and the tables are simple and setting up the unit takes but a few minutes. I found that the early chronograph cables supplied were a bit short and the muzzle blast from magnum rifles produced some strange results. Dan Bechtel of B-Square then produced several different length cables and also supplied me with several types of experimental screens. The unit is now supplied with a special wire screen which is unlike any other chronograph screen now on the market. I tried several other screens, such as the Avtron screens, the lead from Scripto pencils, aluminum tape, and several others, but found that consistent results could only be obtained when the B-Square screens were used. The 6x6 inch screens make it possible to use each screen for several shots, and thus operation of the unit is not only simple, but also inexpensive.

I conducted my tests first on my indoor range with .22 LR ammo and then with Remington's .22-250 loads. I later moved outdoors and used the B-Square chronograph with various magnums, including Weatherby's .340. Results were double checked with two other chronographs of known accuracy, and aside from some slight

variations, the B-Square unit compared most favorably with the other two instruments. The price of \$119.95, with screens costing \$1.00 for 12, make the B-Square chronograph a good buy for the handloader. Dan Bechtel tells me that, despite a full production schedule, units are not only individually checked in the plant, but also on the range. Write to Dan for further information—B-Square Co., Box 11281G, Fort Worth, Texas, 76110, for delivery dates.

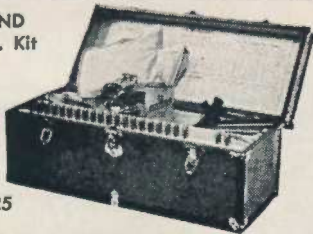
The Texan AP-1 Shotshell Loader

This is a well made and well designed tool that, in contrast to most other shotshell loaders, is operated from the right to the left which, at first glance, appears somewhat awkward. But just try this system once and you'll be as surprised as I was. I not only found that this tool works well and smoothly, but the location of the wad pressure guide at eye level is, as far as I am concerned, the only place to have a wad pressure guide. The crimp starter, at the left of the platform, works very well, and crimps on paper and plastic hulls were perfect. My only complaint about the Texan tool is that the instructions are not complete enough. The Texan AP-1 is available in all but 10 gauge and is manufactured by the Rotex Mfg. Co., Box 5355G, Dallas, Texas, 75222.



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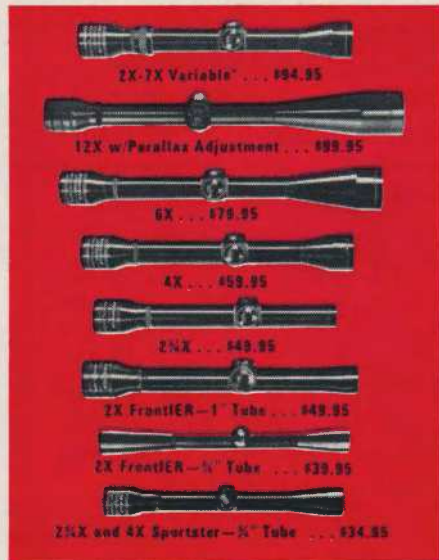
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ARMY TARGET

(Continued from page 37)

riflemen, one trained in pointing and the other untrained in this technique, fired two different weapons, the M14 and the M16, on the course, again with and without the return fire.

In the pointing technique the rifleman does not take the proper off-hand stance, i.e. obtain a good sight picture, hold his breath, and squeeze the trigger. Instead he looks at the target—rather than through the gun sights—shoulders the weapon, and fires quickly without considering either sight picture or trigger squeeze.

The general purpose of the studies was to determine how a combat environment affects a rifleman's performance and to show how this performance differs from normal target range performance. Other information which was sought included data on comparative performance of shooters, both trained and untrained in pointing their weapon, and on the manner in which return fire affects the performance of different man-weapon combinations. Conclusions gathered from the studies will add significantly to information available for evaluating how realistic the current methods of estimating shooter performance are. It is important, first of all, to know how rifleman can be expected to perform under combat conditions. In addition, sensitive and realistic tests are required for weapons evaluation and determination of the man-weapon combination most effective against combat type targets.

Two employees of the U. S. Army Human Engineering Laboratories, James P. Torre, Jr., a psychologist, and Richard R. Kramer, a research engineer, specifically designed the quick-fire course experiment to produce this definitive information concerning rifleman performance under fire and for use in making weapons testing procedures more realistic.

Though the results of the tests have not been completely evaluated as yet, the Infantry board officials said that preliminary results indicated that the experiment had been highly successful and that considerable vital information would be provided by the tests.

Even though fast draw isn't a part of the Army's basic training, these special tests of retaliating targets had the same objective: Get the shooter to hit his target fast. Perhaps these retaliating targets will one day be part of boot camp basics.

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QUESTIONS & ANSWERS

(Continued from page 12)

525 grain bullet, I would use about 65 grains of 3f black powder. Keyholing, or when the bullet hits the target sideways by tumbling in the air before contact, is caused sometimes by a bad bullet-to-bore fit, and sometimes by underloading. You may lubricate the bullet with cup grease or vaseline. Value of the U. S. rifle musket, model of 1863, the last of our muzzle loading shoulder arms, in good to fine condition would be from \$90 to \$125.—R.M.

load for your 405 grain jacketed bullets. You can then work up if this seems mild, and if you are sure you are getting complete burning of all powder. You should be able to safely load 70 or 80 grains of Fg with the 300 grain bullet. Again, vary the load for desired results. I would not recommend magnum primers for use with black powder.—D.W.

Walther Malfunction

I have experienced a strange type of malfunction with my German P-38 automatic on which I hope you can shed some light. The problem is that whenever I fire it using a fully or partially loaded eight round magazine, the slide stop engages after each shot and latches the slide open. I have tried to discover the source of this annoying malfunction, but so far in vain.

Robert Stoner
Rockford, Ill.

Most likely, one of three things is causing the malfunction of your P-38. Either the slide stop spring is missing or it is so weak that it can't overcome the inertia of firing. Another possibility is that the lip on the slide stop is too long and is engaged by the cartridge coming through the magazine, rather than being passed by the cartridge. It should be engaged by the magazine follower.—P.T.H.

Lefever Stock

Can you give me any information on where I may get a stock and screw for a Lefever Nitro Special double barrel? I believe it is a 16 gauge and on the left barrel it has Lefever Arms Co., Ithaca, N. Y. I believe that this company has gone out of business.

Ed Schroeder
Valparaiso, Ind.

You can get a stock for your shotgun from Reinhart Fajen, Inc., Warsaw, Missouri, or from Ray Guthrie, Willis, Virginia. Any gunsmith or machine shop can make up a screw for the stock.—P.T.H.

.45-70 Loads

I'd like some information on black powder reloading for the .45-70 Winchester using the 300 grain and 405 grain jacketed bullets. What grade of powder and what kind of primer do I use?

Julius Helenius
Lomita, Calif.

As you know, old military rounds were loaded with 70 grains of Fg with a 500 grain bullet. This should be a good starting

Colt Heavy Express

Can you give me some information on the following Colt rifle? It has a slide action
(Continued on page 77)



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(Continued from page 75)

with an octagon barrel marked "40-60-260 Colts PTFA MFG Co Hartford CT USA Pat May 29 Sept 18 83 May 26 85 June 15 86 Feb 22 87." The serial number is 5382 and the barrel is 28 inches long. What is its value?

Edward Schroeder
Valparaiso, Ind.

Your Colt slide action rifle was developed for production in 1888 and was an improvement of the Lightning models of 1885. Your model was called the Heavy Express Model, and was made in five calibers and four models, including round barrel and octagon, carbine, and baby carbine. In the 1890's it sold for about \$20. The Colt factory discontinued the Express rifle in 1895. Collector's value for your Colt rifle would be around \$75 to \$150 depending on the condition.—R.M.

.303 Convertors

I would appreciate very much receiving information on a cartridge convertor for a British .303, which came in a deal with some cartridges. I belong to the International Cartridge Collectors Association and this thing intrigues me. It fits fine in the breech and when the bolt is withdrawn the extractor removes this convertor. It has to be inserted every time for firing. Now assuming this is in the breech and loaded with a .22 cartridge, upon firing the .22 bullet should hit some place in the barrel, and probably do some damage. Why was such a thing devised in the first place? Is it possible that this device was used in training by the British? I'm hoping that you can help me with my problem.

Edward F. Guinazzo
Dorchester, Mass.

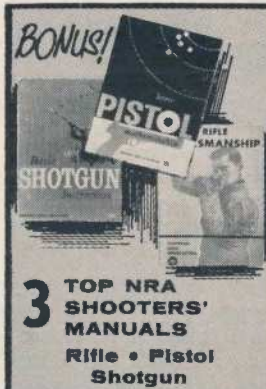
About July, 1918, the British introduced another of their attempts at a sub-caliber conversion of the SMLE; Mark III's and IV's were issued with .22 caliber tubes soldered into bored-out barrels, but retaining the original chamber for the service cartridge. With each gun was issued a set of 30 "Conveyors." These "Conveyors" were externally similar in dimensions to a .303 cartridge, and were chambered for a .22 cartridge. In use, they were charger loaded into the magazine of the rifle. This particular conversion was short-lived; all converted guns were withdrawn by 1920. It would surprise me if there were as many as five of these guns in the entire world and the "Conveyors" are not much more common. Your description is of one of these and you are quite fortunate.—S.B.

Energy and Weight

Am I correct in assuming that the prime factor in considering killing power is energy? If so, what is the purpose of loading some cartridges with heavier bullets which deliver less energy? Examples of this are the 175 grain 7 mm Rem. Magnum, the 300 grain .375 H & H Magnum, etc.

Gregory Zubroski
APO New York

Energy is a combination of velocity and bullet weight. This is an over-simplification,



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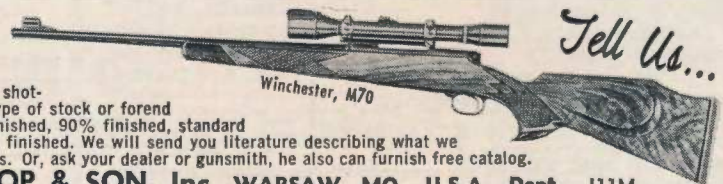
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for there are many other variables. But a heavier bullet at "X" velocity will deliver more energy than a light bullet at the same speed. Of course, another good reason for heavier bullets is their wind buckling advantage. And they will buck brush better. But all of this is not to say that high velocity light bullets do not have certain other advantages—a whole article could be written on this subject.—D.W.

Luger By Mauser

I have a Luger that I need help in identifying. Its serial number is 8332 and it handles 9 mm cartridges. The barrel has a 3 3/8 inch muzzle to breech dimension. The breech is marked with a 41 and the toggle is marked with a 42. The underside of the toggle and the inside of the frame above the trigger have a monogram on them, a large "W" with an "R" inside. Also inside the frame above the trigger near this first monogram is an "N." Inside the frame rear under the toggle is a small "m" that has been struck over with two parallel lines. Near this is an "o." There are no other small arms manufacturers codes on the gun. The serial numbers match on all parts except the grips, which were wooden when I received the gun. I hope this information is sufficient to enable you to identify the gun.

Glen M. Nichols
Seattle, Washington

The description of your Luger indicates that it was made by Mauser in 1941. These are highly prized by collectors and in good condition are currently worth about \$125; if in very good condition, it could fetch up to \$175.—S.B.

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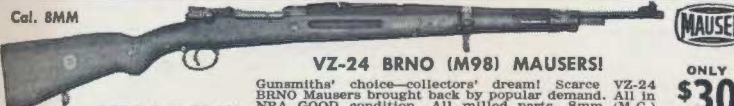
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Cal. 8MM



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Cal. .30 M1 CARBINE

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Cal. .577



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Cal. 8MM



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Cal. 8MM



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Cal. .30-'06

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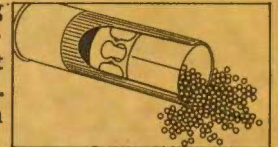
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