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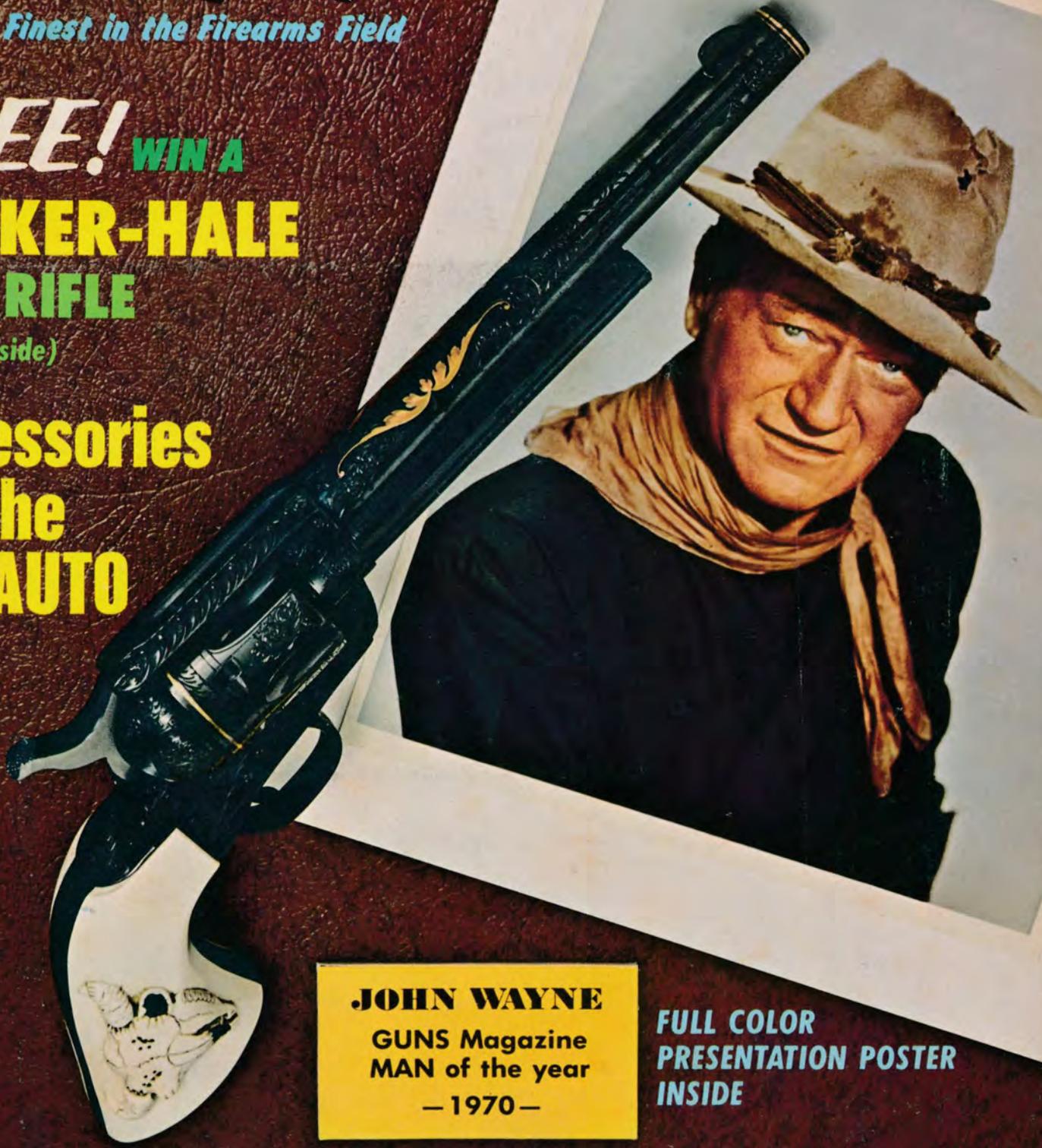
Guns

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(Details Inside)

**Accessories
for the
.45 AUTO**



JOHN WAYNE
GUNS Magazine
MAN of the year
— 1970 —

**FULL COLOR
PRESENTATION POSTER
INSIDE**

The Push for HAND-GUN CONFISCATION!



The return of the
STEVENS FAVORITE

Savage offers the collector a strictly limited, and final, chance to be the original owner of the most famed of all 22's.

\$75

Between 1894 and 1940, the final year of its manufacture, over a half million of Joshua Stevens' famous .22's were snapped up by appreciative hunters.

Today it is the Stevens Favorite itself that is hunted . . . by an army of collectors. Dealers report that even unworkable Favorites are commanding in excess of \$75 (easy to understand, since an owner seldom parts with one).

Now, Savage offers you a final one-year chance at original ownership of this classic of .22 design.

In tribute to Joshua Stevens' contributions to shooting, Savage has recreated his storied Stevens Favorite in a strictly limited collectors edition to be offered in 1971 only.

A Perfectionist's Triumph

Stevens was 80 years old when he patented the Favorite on April 17, 1894. The rifle was the culmination of a dream. Stevens had introduced a forerunner in 1885. Its falling block action, as they are called, was so good, Stevens felt the gun deserved a better cartridge than the black powder type of the day.

By 1887, he had fathered the .22 long rifle cartridge. Now he felt his new load deserved a better gun. The Favorite of 1894 achieved the perfect combination. Stevens had fathered the sport of .22 hunting as we know it.

Authentic in Detail

The Stevens Favorite collectors' edition boasts all of the best and authentic features of the old Favorites. The barrel is a handsome, fully octagonal design. Its deft blueing is set off by a solid brass blade front sight.

The schnabel fore-end and straight line stock are of select walnut and hand burnished to a soft oil and wax finish.

Each receiver is color case hardened to produce individual markings. Thus no two Favorites will be exactly alike. Receivers are inscribed: "STEVENS FAVORITE", each letter richly filled with gold.

The finishing touches of elegance are supplied by the Favorite's gold plated hammer and lever, cartridge-brass crescent butt-plate and inlaid cartridge brass medallion featuring

a bust of Joshua Stevens and the legend "Father of .22 Hunting."

A special collectors' styrofoam case and authenticating documents complete the presentation.

Serialized and Limited

The Stevens Favorite in this serialized edition is genuine. It has the balance, smooth functioning, safety and handling qualities that earned its inventor world fame. Thus, it is ready to perform beyond the collectors' wall.

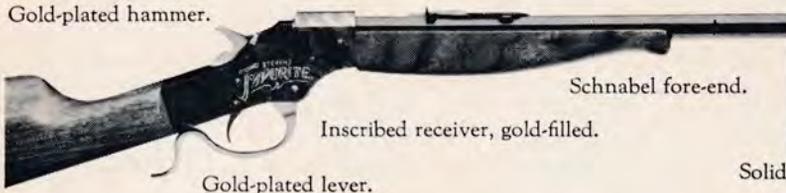
The Favorite will make a perfect father-and-son rifle, for hunting or for informal target shooting. It can honestly challenge the aim of a man or build a boy into a marksman.

At \$75, the Stevens Favorite is true to the credo of Joshua Stevens. It offers great value at modest cost, as important today as in 1894.

The Stevens Favorite. Available in 1971, only. Reserve one today.

Note: Demand is heavy and production is limited. But we are shipping Favorites regularly. A definite order with your dealer is about the best way to avoid disappointment.

Gold-plated hammer.



Gold-plated lever.

Inscribed receiver, gold-filled.

Schnabel fore-end.



Solid brass butt plate.



Octagon barrel with brass blade front sight.



Inlaid brass medallion.

Less money doesn't have to mean less gun.



Savage



JUNE, 1971

Vol. XVII, No. 01-6

George E. von Rosen
Publisher

Guns

FINEST IN THE FIREARMS FIELD

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JUST received word from our Field Editor, Col. Charles Askins, that the winner of our January Safari contest, Mr. Martin DeMatteo of Metairie, La., had a most pleasant and successful hunt at the YO Ranch. We'll have a story on his hunt in an upcoming issue.

Getting together our first annual "Man of the Year" award was trying, but rewarding. When you ask for special consideration, you soon find out who the nice guys in our industry are. When we decided to present a Colt Single Action, Tom Turner of Colt's said: "That's fine, but we're not running that model now." However, he pulled strings, and we had our gun. Bob Izenstark of REI Engravings told us that he was swamped with orders, but; "I'll work this one in somehow." Jerry Evans got a last minute call from us, asking for a pair of ivory grips, and he, too, was several months behind in his orders. But a week after our call, the grips were on the gun. A special thanks to these folks is in order. A tip of the hat, too, for Jim de Vita of the Costa Mesa Gun Room in California, for doing all of the necessary paper work connected with transferring the gun.

COLOR PRINTS: We have a limited supply of the John Wayne center spread available unfolded, ready for framing. Price, \$2.00 postpaid. Order from GUNS, Dept. JWP, 8150 N. Central Park, Skokie, Ill. 60076.

Do you have a person in mind who you feel should become GUNS Magazine's "Man of the Year" for 1971? If so, drop me a card with his name and the reason you believe he should be selected. We will accept nominations through August 1, 1971.

THE COVER

Both the cover shot of the John Wayne presentation gun and the handsome center spread were shot by Gerry Swart of Evanston, Illinois, who always seems to work some kind of magic into his photos.



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News from the...

SHOOTERS CLUB OF AMERICA

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

The real truth about firearms has been distorted to the point of being ridiculous. There is no gun problem; there is a crime problem. We need to fight crime by enforcing laws. Guns don't kill people, people kill people, and they were being killed long before guns were invented.

False figures of 18,000 murders by guns were reported by the liberal news media, but the FBI reported only 772. A figure of 17,000 accidentally killed was printed nationally, but the National Safety reported only 2,200.

There are many people in Washington who have confused the issue and made it difficult for the average person to know the truth. The truth is that the first line of defense for a man in his home is to have something to defend that home, his family and himself. He is thus defending the country too. It has been so all through the centuries, in all the countries of the world.

A firearm in the hands of a law-abiding citizen is not a threat to his neighbors, nor to the government. It is a guarantee of cooperation to maintain public order, to save lives and to protect the property of the individual and the government.

There is a hysterical outcry nowadays to disarm honest citizens, as if we are responsible for the prevailing lawlessness. But Americans who have a firearm to defend public order and to protect themselves and their families, will not be a danger to the nation. The danger comes from criminals and from any group plotting against American democratic institutions, or working in accord with the enemies of the United States of America.

The current outcry against guns and murders might very well be coming from those who want to disarm the American people. This is a standard technique of those who enslave nations. Castro in Cuba during 1959 demanded that all Cubans turn in their firearms. He is the one who said: "Weapons for what? The State will protect you." Castro knew that firearms in the hands of the people are the first line of defense for the people against a dictatorship. But the Cuban people turned in their guns, and Castro with his Communist

friends seized complete power.

Just this last October the new Russian-led Government ordered Czech citizens to surrender all privately owned firearms. Prague citizens formed long lines at police stations to surrender licensed guns. Some said they had been summoned urgently to report for a "revision" of their firearms license. When they appeared at the police station they learned a revision really meant a revocation and they had to leave their guns for State collection. The Government feared to leave guns in private hands. Even such relatively harmless weapons as air rifles were taken.

Many of the new anti-firearms laws are also proposed on the grounds that we must do everything possible to make it difficult for people with criminal records to have guns. That sounds good on the surface, and in reality is desirable, but the fact is that killers and criminals will not comply with the laws. They will be able to get their guns by seizing or stealing them, or in the same way that they do for bootlegging, narcotics and other rackets; that is by circumventing the law.

It would be terrible to disarm the good people so that the bad people and the enemies of democratic American institutions will be the ones having the firearms. The right of Americans to own and use firearms is a cherished part of our heritage and has kept us a free people. In much of the world it's a rare privilege to own firearms, even to protect one's family.

If you believe that honest, law-abiding everyday citizens should have the right to own firearms for their own protection and the protection of their family, then now is the time to join the SHOOTER CLUB OF AMERICA. Join the other honest people who are working to prevent anti-firearms legislation coming up in Congress. If the people and Congress know our part of the story they will know how to deal with the lies and propaganda that the other side is pushing out. But S.C.A. needs all the help it can get to stay on top. Help protect your rights by joining the S.C.A. Fill in the card opposite this page and mail it with your check today. Col. E.R. Becker

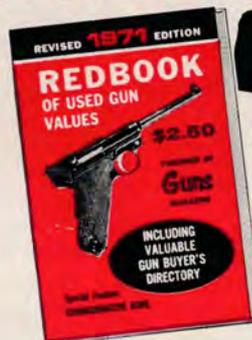
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A Good Point!

All of the new safety messages concerning the drunk driver, the damage he does, the killing and the maiming, serve a fine purpose. They are encouraging new laws for punishment, medical and social services to cure the person's problems, or to convince him to stay off the road. It also *does not* blame the alcoholic beverage of their use—only the *abuse* of them. This I commend!

But now the question. Why has this not been done with firearms? Anti-gun lobbyists and citizens and organizations condemn firearms as the root of crime and violence. This is not true! People are to blame such as judges that are bought or who let personal feelings or political interest interfere with their decisions, citizens that open their mouths instead of their minds, citizens that are apathetic towards the political establishments (police forces, etc.) of their city, state, and country.

Nothing has been done on a national scale to educate the masses about the criminal, just about the "evils of firearms." I am only 22 years old but I already own several firearms and hope in the future to collect many, many more. However, the 1968 Firearms Control Act stands in my way. I must register my firearms and ammunition as I buy them. Registered firearms owned by the average citizen will be the first to be confiscated, if it comes to that, not those of the criminal, because the Supreme Court of the U.S. has already decided that a criminal must not be required to register his firearms because that is self-incriminating evidence. Because I am a law-abiding hunter and collector, with no connections with criminals, I must go through channels.

Harlan Markwalder
 Robinson, Ill.

XM-21

In the January '71 Q & A section, Les Bowman replied to a letter from a soldier in Vietnam inquiring about

the XM-21 sniper rifle and the Redfield 3x-9x scope used on it. He was mistaken in his identification.

First, the rifle is not a Remington or Winchester bolt action, but a semi-auto accurized M-14. A modified Remington 700 is used by the U.S.M.C. and is known as the M-40.

Second, the daylight scope used on the XM-21 is a Redfield 3x-9x but it has been considerably modified. This scope is known as the Adjustable Ranging Telescope (ART). The only scope manufacturer in the U.S. that is licensed to build this system is Realist, Inc. of Menomonee Falls, Wisc. A fixed power Realist Auto-Ranging scope was introduced a few years ago and since that time, a much improved variable system has been marketed. The Realist Variable "Computer" is exactly the same system as the ART and is of equal or better optical quality.

Bennett B. Bintliff
 Military Armament Corp.
 Powder Springs, Ga.

Knife Buff

Normally I don't make a practice of writing magazines about articles they publish. However, I want to say how much I enjoyed the article on custom knives in the November, 1970 issue. The author obviously knows his subject and he did a crackerjack job. There has been so much junk written about custom knives recently by men who apparently didn't know their subject. When an article like Mr. Hughes' comes along, it is a real pleasure to read. I hope you will have more articles on my favorite subject, knives, in the near future.

Jesse Gordon
 El Dorado, Ark.

So There!

I have just finished reading "Pocket Pistols at 100 Yards." I, as the author, started the sport of handgun shooting a little over two years ago. Like him, I do not write well either. Unlike the author, I do know handguns. It seems

(Continued on page 8)



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that he hasn't owned a good one yet. This is not to say that the Walther PP isn't a good production pistol, but there are numerous handguns that will out shoot it under any conditions.

I do agree with one statement he made i.e. "The pocket pistols would shoot rings around the big ones." That's just where his shots would be, around them. As an example, a 10 shot group measuring 2 1/16" was fired by my "Shockey Deluxe Custom .45".

Jim Brown
Houston, Texas

Rimmed .222

Just read Ken Water's article on the .222 Rimmed and would like to say that he should have had his gunsmith check with us first regarding chambering tools. Since the Rimmed version first came out, we have stocked all of our .222 Remington reamers with the rim counterbore integral. We still furnish the rimless version on request but sell these mainly to large manufacturers. In our opinion, the small shop is better off to spend the extra three-dollars and get the rimmed version so they can chamber either one easily.

Rimless gages must be used with the rimless reamers, but the Rimmed gages may be used with the .22 Jet, .256 Win., .222 Rem. Rimmed, .38 Long Colt, and the .41 Long Colt.

We furnished the original tooling for the rimmed .222 for customers in Australia and Canada and due to the rapid acceptance of it we decided to stock only the rimmed version.

Keith Francis
Talent, Oregon 97540

sure you drag his body into your house before you call us."

Up till now I have ignored the pleading of the NRA as well as the rantings of citizens demanding stronger laws governing the sale of firearms. Now I'm fed up . . . I've had it.

Our so-called concerned citizens and politicians are so busy pushing gun control laws, they are over-looking matters much deadlier than guns. How long has it been since stricter laws were enforced to protect young children from the perverted mind of a sex molester? This moronic maniac may eventually get caught; however, our antiquated laws set him free to commit more horrendous crimes.

People seem more concerned and anxious to devote their time to things which "might happen" rather than things which "have happened."

Hatchet Mary, Jack the Ripper and the Boston Strangler didn't use guns to kill. How about the girl who committed suicide, the boy who hung himself and the actress who died from drugs and sleeping pills? They didn't use guns.

So all you concerned citizens and politicians, sit there . . . sit there and drink your stagnant water, inhale the stale polluted air and munch on your chemically sprayed apple while you condemn and demand stricter gun laws. Sit there and tell yourselves that every person who purchases a gun is a potential killer or robber.

While you're sitting there, ask yourself this question: How will I die?

I know my answer . . . "if I should die, before I wake . . . it won't be from a gun wound." What's your answer?

P. J. Lautzenhiser
Akron, Ohio

Re-prints

In reference to the article "Citizens Arrest" in the February issue of Guns, I think it was magnificent in its viewpoint that we have very little right to protect ourselves in this age of the "anti-gun legislator." It further demonstrates the callousness and stupidity with which our courts are currently operating.

I strongly urge you to make re-prints of this article available at a modest fee so that concerned citizens the nation over can send these re-prints to their legislators, in the hope that we can restore some semblance of sanity to their thinking.

John Warren Giles, the author, is to be commended for his service.

Richard A. Wheeler
Ft. Myers, Fla.

Your son doesn't wear your size suit. Why should he shoot your size gun?

Until now he had no choice.

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You can switch the stocks back and forth with ease. All it takes is a screwdriver and a few minutes of your time. This makes it an *all-family* gun. You can use it with the long stock. Your *son* or your *wife* can use it with the short stock. We've discovered that many women prefer using the short stock because of its easy handling. The cost is \$104.95 and that *includes* both stocks.

• Our Flite King 20 is built like all High Standard shotguns. Rugged. Durable. More at home in the field than in a trophy case.

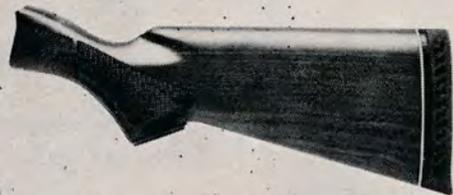
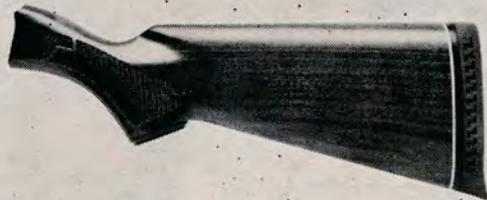
Basically, all High Standard guns are *tough*. We concentrated on building quality and ignored the frills. The result is a gun that looks like a gun. Feels like a gun. Fires like a gun.

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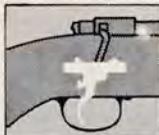
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POINT BLANK 

By COL. CHARLES ASKINS

THERE IS AN acute problem with puddle ducks who feed off the bottoms of ponds, streams, marshes and sloughs. These bottom feeders scoop up quantities of shot pellets fired over the waters in other seasons and this leaden shot poisons the webfeet. The lead puts off toxic fluids which debilitate the waterfowl and lead inevitably to its death. It may seem somewhat ridiculous on the face of it that there are these quantities of spent shot on the bottom of our favorite ducking grounds but when you realize that some areas have been supporting duck hunters for generations it is completely understandable.

The Fish & Wildlife Service is quite concerned about the matter and so are some of the private conservation agencies. These latter have recently been quite critical of the ammo manufacturers and feel that something should be done, and promptly, to alleviate the situation.

This is a good deal easier said than done. The shotshell makers are keenly aware of their responsibility and all of the major cartridge loaders are working on the problem. So is SAAMI, the Sporting Arms and Ammunition Manufacturers Institute. As a matter of fact this outfit, a couple of years ago went to the Illinois Institute of Technology-Research and contracted for this agency to investigate the problem and come up with some remedies.

The research institute approached the matter from a number of angles. The first of these was to add biochemical additives to the shot so as to render it harmless to the duck's digestive system; a second consideration was a lead-iron-plastic composite; thirdly the study proposed a plated shot which would shield the old mallard's liver from the toxic effects of the lead. Finally the institute looked at plain iron shot. Iron, when ingested is easily digested and without any harmful effect to the game.

The Fish & Wildlife Service provided the facilities of its Patuxent Wildlife Research Center and here birds in captivity were fed the biochemically treated shot. These birds

died. The pellets were found to remain lethally dangerous even after the treatment. This approach was set aside after these experiments. They also found that when the leaden pellets were alloyed with other metals or coated with plastics that it was likewise ineffective. An attempt was made to reduce the quantity of lead in the pellet by mixing it with other materials and this experiment was also pretty much a failure. This left only the iron shot.

Iron shot has a lot going for it. For one thing it definitely will do no harm to the waterfowl. Repeated tests of a variety of webfeet, both ducks and geese, proved beyond any doubt that the game could scoop up quantities of the shot and not be harmed in the least. Quite apart from this fine quality was the fact that the iron shot is a lot cheaper to manufacture than lead. The latter is the most costly item in the shot shell and if the manufacturer could develop a shot that was made of iron and not lead it would not only lessen his costs of production but he could pass the savings along to the shooter who would also be happier.

Iron has its disadvantages, too. It is not all beer and skittles. The idea of pellets of iron is a very old one. Iron has been fired for a long time. It scores a gun barrel, adversely affects the choke, raises pressures, is lighter than lead which means that lighter charges must be fired, it loses velocity rapidly, thus has less range and does a poorer job of killing because of its lower specific gravity. Shot pellets must be made to specific sizes, that is a No. 6 pellet must conform to certain minimum and maximum specs, just as do the other sizes. In trying to manufacture the iron pellet, it was a tough chore to keep the pellets to a uniform diameter and to maintain a necessary roundness.

Recent developments in shotshells seemed to mitigate some of the objections to the iron pellets. The shotload could be enclosed in a plastic pouch and thus would not come in contact with the bore. This eliminated the

(Continued on page 12)

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(Continued from page 10)

scoring which would certainly appeal to the gun owner. However on a long series of tests it was found that after some 200 to 1,000 shots that the iron pellets inside the plastic collar seemed to have a hammer-peening effect on the choke and it was enlarged. Too, the forcing cone was adversely effected.

Finally the Illinois Technology-Research Institute developed what they referred to as "super soft iron." This was made up into test quantities of pellets and these were fired at ducks at Patuxent. Not only was the effect of the shot studied on the shotguns used but more especially the researchers wanted to know whether the loads were really lethal on the wildfowl. For you see the iron is so much lighter than lead that while the pellet charge can have the same number of shot in it and will take up the same amount of space in the casing, the load itself will fall considerably short on the score of weight. The best the testers could do was to put a one-ounce load of shot into the standard 12 gauge shell. Now only 1-ounce of shot, whether it is lead or iron, is a sort of piddling charge for game like stud mallards and old Canada honkers.

So that as much of the hazard was removed from the tests as possible, the game was made to approach the gun on a conveyor belt. This laboratory experiment permitted an exact angle for the pellets to enter the target and also a close understanding of the range fired. According to the research peoples it was found that the 1-ounce load of No. 4 soft iron shot could be depended upon to surely kill the game at distances out to 50 yards. It was further decided that the iron shot was quite as efficient as lead at all the ranges. Neither were there any more cripples with the soft iron.

These experiments were done back in '69. Since then some quantities of the super soft iron shot were again tested and it was found that there had been a hardening of the pellets. The instability of the metal over a year's storage was a disheartening discovery for shotshells may frequently be held over from one season to the next by the user. The shot had perceptibly hardened, about 25% it was calculated.

Only two companies presently make super soft iron wire, the material from which the shot is made. It is not a shelf item for ready delivery. These companies aren't presently capable of turning out the iron wire in quantity and guaranteeing that it will meet the necessary specs. Iron wire that fails to

meet the required specifications simply cannot be considered by the manufacturers of our shotshells.

Despite the present seeming impasse, experiments are going ahead by all our major shotshell manufacturers to find a suitable substitute for the lead shot.

• • •

While it was just speculation, it was concluded that at the time Columbus made that famous landing of his in 1492, there were sixty million bison in North America. It was also believed by such naturalists as the eminent William T. Hornaday that at the end of the Civil War the herd was of such a size that it could stand an annual 'take' of 500,000 without suffering decimation.

The Civil War pinched out in 1865, a decade later the buffalo were gone. This did not make the Army unhappy because the military had contended for years that the only way to control the plains Indians was to kill the bison to the last animal. It is likely that garrisons stationed west of Old Dodge actively encouraged the legions of buffalo runners to kill the game. All with the intent of bringing the redman to heel.

By 1855 the animals were divided into the northern herd and the southern. The dividing line, very roughly, was the Platte River of Nebraska, with the northern herd ranging as far toward the Arctic as the Great Slave Lake, and the southern contingent covering that ground from the Platte westward to the Rockies and southward to the Rio Grande.

It was sometimes contended that the two major collections were separated by the construction of the transcontinental railroad or by the movement of wagon trains but this hardly bears the strong light of logic. It is more likely the two herds were separated because of river boundaries, the feed situation, and differences in climate. When pressures became intense, the southern herd outlasted the northern. This with the exception of the woods buffalo, a larger and darker animal than the common buffalo. It ranged south of the Great Slave Lake and because of its isolation managed to survive the kill-off better than its southern brothers.

It was also contended that the herds migrated. When the game in the late '70's was all but wiped out, there were still old buffalo runners and many Indians who were waiting for the great annual migration of the buff. It never came about. And indeed during the days of plenty when there were twenty million buffalo in the southern

(Continued on page 68)

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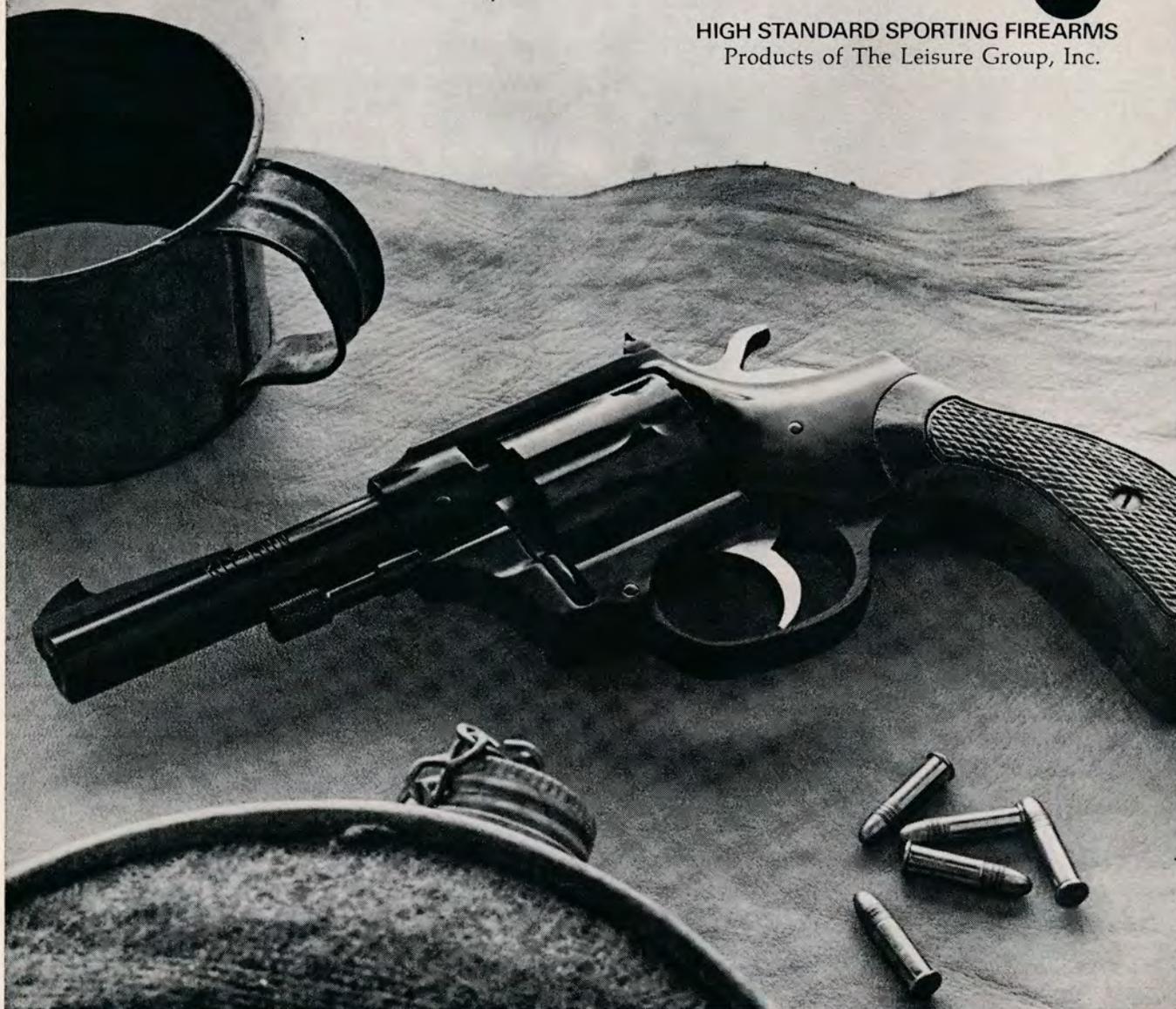
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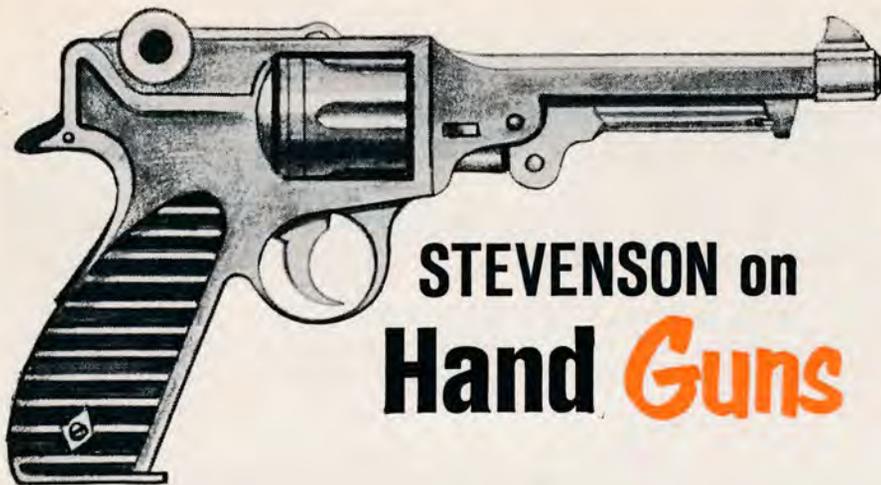
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STEVENSON on Hand Guns

IF EXTANT scholarship on the revolver vs. automatic issue is as warped as we made it out in Part I, if the whole question is as mired in prejudice as we indicated last month, what pray might the facts of the case be? Or in want of facts, what would a judicious opinion sound like? This is how it looks to me, and you may judge the worth of it yourself.

In choosing a defensive sidearm, we look for portability, firepower, accuracy, reliability, speed, and safety in one proportion or another, in a gun that chambers a man-stopping cartridge. Pick two specific guns—a revolver and an auto—and they can be quantitatively compared on these points, but it's to little avail, for the choice is largely subjective.

For example, one of the world's most deadly combat revolver men recently told me that he wouldn't consider carrying an automatic for serious use because he feared being stuck with a misfire. With a revolver he could crank over to the next chamber with a quarter-second lost; with an auto he'd have to hit his dud a second time and *hope* it went off with a double-action, or eject it and rechamber with a single-action which would take say, 2 seconds.

If the chance of a misfire in close range combat bends him so out of form that he couldn't have confidence in a semi-auto, then he's certainly better off with a revolver. It's just not a possibility I get bothered about. It's a chance I'm willing to take. I ignore misfires in practice since I burn cheap ammo. For business I use the best fodder money can purchase, and the chance of its failing me the one time I really need it is infinitesimal.

On the other hand, if you're up against several opponents, or miss a couple of shots on a subject who declines to lie down and quit, you will have to reload. This takes 15 seconds with the wheelgun, whereas the auto

is recharged in 2. The misfire vs. reloading time comparison is very nearly a chance vs. certainty situation, and automatic fanciers feel virtually unarmed with a wheelgun. This, too, is to some extent psychological, but I find a lot of logic in their hypothesis.



Recharging the wheelgun takes 15 seconds without the aid of any of the new loading accessories that allow cylinder to be recharged in one swift motion and very quickly.

As for portability, the auto is slightly to be favored. It comes off heavier but more compact than a comparable revolver. Eliminating the cylinder means height is considerably reduced, though this is occasionally put back in the grip to accommodate a longer cartridge column. Running the handle in under the mechanism substantially shortens the gun, and you get a much longer barrel and sight radius for comparable overall length, which is all to the good.

The auto lacks the girth of a wheelgun, and thereby eliminates one revealing lump under the jacket. When both guns are properly stocked—and this almost invariably means custom grips on the revolver and factory handles on the self loader—the auto has the boxier grip, which sometimes causes a bulge.

The two types are equally fast on

the first shot. However the auto controls recoil much better than does the revolver. The axis of the bore on a typical revolver is nearly four inches above the forearm axis. The semi-auto lies some 25% lower—indeed as low as is mechanically possible, hence its recoil torque is much less vicious than the wheelgun's, allowing not faster follow-up shots per se, but faster *accurate* follow-up shots. Using full charge ammo in each, the self loader is the easier gun to control in fast combat shooting.

As for accuracy, I suspect the revolver comes out slightly ahead. Neither type can do good work without good ammo, and good ammo for the revolver tends to be both cheaper and more readily available. It's been conclusively proven that a target auto will outshoot a target revolver either from the machine rest or from the hand. I imagine a service revolver, on the contrary, would outgroup a service self-loader. Moreover, the wheelgun's invariably fine single action makes it's inherent accuracy instantly attainable whereas the auto's trigger takes work to master. An automatic may usually be accurized to equal or better a revolver without impairing reliability, but it shoots loose with use. This periodic pilgrimage to the pistolsmith is a cross automatic fans have to bear, and a point, I say, in the revolver's favor. It just keeps perking on, maintaining all the accuracy it ever had, which is plenty.



It takes but two seconds to ram a fresh clip into the automatic if time has been spent practicing it.

As to whether this vaunted accuracy is on tap fast when you need it is another matter. "Fast" with a double-action revolver means double-action, of course. A double-action can be shot fast; it can also be shot accurately. Few men can do both at the same time. It's problem of physics—you're applying 12 pounds of pressure to a 2 pound object, and applying it over a half-inch of trigger travel which gives you worlds of opportunity to divert the pressure angularly rather than directing it in a perfectly

(Continued on page 16)

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(Continued from page 14)

straight line back, which is what you must do if the muzzle is not to be deflected. Applying 4 pounds of pressure over $\frac{1}{16}$ " or $\frac{1}{32}$ " is a much easier trick to pull off. Then there's the matter of recoil recovery for the next shot. When speed and accuracy are wanted together, the auto is the better gun.

The automatic's strongest point though, is its tremendous firepower advantage over the revolver. You start with greater initial capacity—7 to 14 rounds in a service auto compared to six in the wheelgun. The auto is recharged with spare magazines almost without breaking fire, whereas the revolver, with rare exception, has to be fed round by round, which requires a layover of 12 seconds or more. The auto should be reloaded with the hammer cocked and the last round from the previous magazine in the chamber. Thus it's never out of action unless you have a magazine disconnect safety, and these are easily deactivated. The revolver on the other hand is useless with the cylinder swung out. If it has to be slammed shut partially loaded, some attention should be paid to positioning it so that a loaded chamber turns up reasonably soon—not all told an enviable situation.

The question is not, as Mr. Jordan contended, the likelihood of your having to face a banzai attack. Three opponents is gracious plenty and a common complement for an armed robbery group. A revolver gives you two shots on each target, which in my book allows no margin of error whatsoever. Furthermore, the auto lets you use a few lifesaving tactical tricks the revolver won't permit. Alley cleaning or bracketing a location in the dark for instance, or a covering volley to keep heads down while you change position, all leave you with an empty wheelgun. Then you have to request time out.

Eventually we have to consider comparative reliability. Here, in my opinion, the revolver is ahead. Granted the auto takes more ultimate abuse, is far simpler to detail strip, and lends itself to much easier parts replacement than the over complex wheelgun, but we're more interested in performance under reasonably sanitary circumstances.

The automatic must feed, extract, and eject each cartridge individually and is dependent on reasonable uniformity of ammunition to perform these functions. The revolver needn't and isn't. True, lead shavings in the crane recess or powder particles under the ejector star can tie the wheelgun up. But as long as it's kept

clean it will work and keep on working no matter what it's fed. Except sometimes.

A burred ratchet tooth will cause a revolver to skip rotation. A mistimed bolt or mud-caked stop notch will make it throw by. An overlarge firing pin hole will let a soft primer crater back into the standing breech and tie it up proper. A high primer will bring a revolver to a screeching halt, whereas an auto would merely have bashed the thing flush where it belonged in the first place. Indeed, the auto is subject to none of these peculiarly wheelgun ailments.

Still, the mill run auto is even less to be relied on. The revolver needs to be kept clean and in good repair. The auto sometimes has to be pampered. Most of the best of the breed will handle factory ammo with fine regularity. Some will require polishing the feed ramp or chamfering the chamber mouth, others are choosy about which magazines they like, and a rare few will flatly decline to cooperate. Once it's established that the gun likes a particular load, and granted the magazine is in good shape, it's a marvelously reliable machine, but not before. Any change of ammo type requires extensive experimentation and perhaps a bit of gunsmithing before reliability can be taken for granted. The .45 is reasonably tolerant of a changed diet, and really there's no great fault with factory hardball—no real need to switch. It's the 9mm's whose full-jacketed projectiles are clearly inadequate, which sometimes cause problems. However, the recent development of round-nose, high velocity factory soft points which give certain expansion has greatly simplified things since they generally feed quite reliably on a polished ramp.

If you're able and willing to give the gun the attention it demands, to learn its foibles and flatter its fancies, a good automatic can be quite as reliable as the best revolver. If all you care to know about it is how to put the cartridges in and where they come out, the revolver will give you much better service. It will haul more than its share of the freight, whereas the auto wants meeting halfway.

Safety is the revolver's big point. The sixgun is totally unambiguous. It's either loaded or it's not—just swing out the cylinder and look. On many guns even this is not necessary, for the cartridge rims are clearly visible even when the cylinder's shut. Either the hammer's cocked and dangerous or down and safe. That's all there is to it. The only way to set it off is to deliberately thumb cock it or to pile 12 pounds of muscle on the

(Continued on page 67)

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U.S. Patents 3,003,420/3,069,748
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(Continued from page 18)

	R-P	W-W
.222 Rem	91.0	95.6
.22/250	159.8	*158.4
.243	168.9	*166.1
.270	201.9	*186.2
.30/30	*128.2	136.3
.30/06	199.5	*198.5
.308 Win.	169.0	*153.9
.35 Rem.	*147.2	150.9
.380 Auto	45.2	*44.6
.38 Spl.	64.3	*62.9
.38 Spl.	*62.8	64.9
.45 ACP	*86.2	87.0
9mm Luger	*51.97	52.1
.357 Mag.	*74.9	81.4
.30 Carbine	70.2	*69.0

Firearms International is now importing the Sako Vixen rifle in 7.62x39 mm caliber. In the event you aren't aware of it, the 7.62x39 mm is the standard Soviet Bloc rifle and LMG cartridge. It is sometimes referred to as "7.62mm Bloc," but is listed in most military references as "7.62mm M43." The Soviet SKS and AK series rifles use it as do satellite copies, and so do all Soviet and satellite light machine guns. Since this is also the standard military cartridge of Finland, it is only logical that the Finnish Sako rifle be chambered for it. Using .308" diameter (.30 caliber bullets of 125 grain weight, the military load develops approximately 2330 fps in the AK-47 with its 16-34" barrel, 2410 fps in machine guns and the SKS with barrels a bit over 20" long. Sako hunting loads are available from F.I., loaded with 125 grain pointed soft point bullets, and the same performance.

The 7.62x39 mm and Sako Vixen make a very nice small and medium game combination. Ballistically it falls right in the range long considered ideal for turkeys and similar eating game. Sako rifles have long ago proven their ability to produce fine accuracy. There are plenty of good .30 caliber bullets in 100 to 130 grain weights to feed this case, along with powders such as 4198, 4227, and 3031. Cases aren't too plentiful and those from Sako are Berdan primed. However, Norma 6.5 mm Italian and 6.5 mm Mannlicher-Schoenauer Boxer primed cases are readily available and can be easily formed to 7.62x39 mm. RCBS can supply case forming and loading dies.

One load I've found excellent at the shorter ranges (remember, this is no 300-meter cartridge, though military references credit it with an effective range even greater) consists of the Sierra 125 grain .308" Spitzer and 19.0

grains of IMR 4198. We've not chronographed it; it's not terribly fast, but sure could be relied upon to do in a fat gobbler without tearing him up.

Frankly, I like this combination, regardless of the cartridge's origin. It produces a performance level far more suitable for much U.S. hunting than fire-blowing magnums. It will put down the ubiquitous muley and white tail neatly with little fuss, report, or recoil—and in the carbine-like Sako Vixen, makes as sweet-handling a package one could want.

• • •

The shot gunning season is in full swing again. Once more, handloaders are grabbing fired cases wherever they can. Many clubs claim all hulls that hit the ground, then either reload or sell them. Often the cases are damp when picked up, from either rain or dew, and don't get a chance to dry out, piled in baskets and boxes. That can cause trouble. If reloaded while moisture lurks in the case head, trouble is coming in the form of bloopers or misfires generated by damp powder charges.

Don't take a chance—spread those cases out in the sun and breeze in a single layer. They'll dry in an afternoon if not dripping wet. Indoors, play the balst of an electric fan on them. Heat will speed things up—you might even try mama's electric hair dryer. If you *must* use an oven, make damn certain you set it for lowest heat or the cases will be ruined. Excess heat evaporates the wax from paper cases and deforms plastics.

• • •

Anyone who has read this column for any length of time has probably seen occasional reference to Hensley & Gibbs bullet molds. For many years, this firm has produced the best molds available; at least, my experience has so indicated. One 6-cavity H&G No. 50 BB (.38 Special wadcutter) mold cast over 2 million bullets before I let someone talk me out of it in a weak moment. During all that, it had required only a new cutoff plate screw and occasional cleaning. H&G molds were once available from dealers and you could order one through your corner gun shop. That isn't true any longer. Now, the only way you can obtain these fine molds is to order direct from the makers, Box 10, Murphy, Oregon, 97533. Even then, be prepared to wait a while. Top quality molds such as these aren't made by the mile and cut off by the yard. They are cherried (cutting individual cavities), assembled, inspected, and tested entirely by hand—no high-

speed production tools. And, every one has to cast perfect bullets in the shop before it goes out. They aren't cheap, but are worth every penny.

• • •

If you find you are making up a lot of wadcutter loads, you'll find the double-ended type of bullet to be a big time and temper saver. If you go a step farther and get it in bevel base form, even more is saved. The bevel makes it much simpler to insert the bullet, especially in cases that are a wee bit short and don't get much flare during expanding. The double-ended feature means simply that the bullet is the same on both ends, so it doesn't make any difference which end is up when you place it in the case.

• • •

Some years back a goodly quantity of Swedish and Swiss Nagant military revolvers were sold as surplus in this country. The price was good and the guns were in fine condition and superbly made. One fly in the ointment—they were chambered for the 7.5mm Nagant cartridge, one that's never been produced in this country. Norma filled the gap partially by importing Berdan primed Swedish ammunition and, to the best of my knowledge, it is still available to some degree.

But that didn't help the people who wanted to handload for their Nagant revolvers. Fortunately, boxer-primed cases aren't difficult to produce from .32-20 Winchester brass. Simply shorten to a length of .90", then resize full length in a 7.5mm die. The barrels usually run a full .32 caliber, so any lead bullet of that diameter and up to 120 grains weight may be used. A charge of 2.5 grains of Bullseye makes a nice load; up to 3.0 grains may be used if you want snappier performance.

• • •

There seem to be quite a few .450 caliber Webley "R.I.C." (Royal Irish Constabulary) revolvers floating around. Most of those we've seen were in excellent condition, though long obsolete, having been first produced in 1867 and discontinued well before WWI. They are fun to shoot, though, and perform better than would be expected provided ammunition of good quality can be found. Unfortunately, most of what is available is of uncertain performance and vintage and is usually loaded with black powder and corrosive/mercuric primers.

To place one of these guns in action, better get a handful of Dominion (C.I.L.) .455 Webley Mark II cases or ammunition made in Canada, the Boxer-primed variety. Some R.I.C. guns have chambers bored straight through so they will accept the full length .455 case. Others require it to be trimmed to a length of .69". In any event, you can then load with Lyman bullet #347195, weighing 215 grains, ahead of 3.0 to 3.5 grains of Bullseye powder to closely approximate the original black powder loading. Bullet #457195 is a hollow-base design intended for most British .450 and .455 calibers. If you dislike casting that type, any soft lead .45 bullet of about the same weight may be substituted and should be sized .454-.457" for these guns. Keep in mind that all such guns are at least 50 years old and were originally designed when most people still carried muzzle-loading handguns. *Don't* try to magnumize them if you value your fingers and face.

• • •

While at the Phoenix World Shooting Championships, I managed to pick up a hat full of fired Soviet 7.62mm Nagant fired cases. These were from the special wadcutter-bullet match load the Russkies used in a gas-check target revolver for the Center Fire Matches.

Joe McPhillips—and old-time custom loader from California—and I kicked around the idea of reloading those cases with Boxer primers. I didn't get around to doing it but Joe did. He reports the Berdan primer is a hair larger than our small pistol size, but smaller than large pistol. So, he chucked the cases in his lathe, then opened up the original pockets to about .209" with a bastard-size end mill. Pockets were then swaged with one of the units made for removing military crimp from Boxer pockets; a flash hole is drilled; and new large pistol primers fit fine.

The balance of the loading job is simple enough, except that the bullet must be carefully seated about 1/8" below the case mouth—and then the unencumbered mouth must be taper-crimped to allow it to enter the barrel breech when the cylinder is cammed forward.

The same procedures should work as well for the standard Soviet 7.62mm Nagant military revolver which isn't uncommon these days. If you can just latch on to a small supply of original Berdan-primed cases, they can easily be converted to accept standard LP primers. Joe might even do the job for you.

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ANTI-SNIPER



The business end of the Model 70 Winchester in .30-06 as used by the Illinois State Police. Officers take the weapons home with them and they are encouraged to shoot while off duty.

Many states are just now instituting sniper teams for their police forces, but the Illinois State Police, being a progressive force, has had teams in the field for a number of years and also were the first to adopt an automatic pistol as their service gun.

POLICE

By JAMES R. OLT

SNIPER! The mere mention of the word can knot the stomach and cause the flesh between the shoulder-blades to crawl uncomfortably. At one time these dubious thrills were pretty much the property of G.I.'s in combat areas. Now they are experienced by too many police, firemen, and residents of metropolitan areas—and some not so metropolitan.

After the smoke and confusion of the major riots of the 1960's cleared away and the inevitable commission studies were made, the Federal Bureau of Investigation made a number of reports and suggestions to law enforcement agencies throughout the country. One was that police departments specially equip and formally train members of the force to combat sniping.

However, one law enforcement agency, the Illinois State Police, had the jump on the FBI, and were equipping and training an anti-sniper force long before these reports were made public. Their choice of weapons and methods of training make an interesting story, one that other law enforcement agencies may benefit from.

The primary mission of the special anti-sniper personnel of the Illinois State Police is, of course, to "neutralize" snipers, whether it be a lone deranged individual or a group in a full-fledged riot situation. Under the riot heading also comes the need for protecting firemen and other police officers trying to do their jobs under fire from snipers. The anti-sniper State Troopers are also called upon to provide protection for VIP's whose lives may be in danger for one reason or another. And most important,

they will provide extra protection for the President of the United States while he is in Illinois.

It isn't good enough these days to form an anti-sniper force just by handing the nearest officer an old Model 1907 .351 Winchester that happened to be lying around the department, and tell him to get to the scene and look sharp. Quite likely, the fanatic on the other side will have him outgunned. And neither will the business of Army or National Guard outfits shooting up buildings with machine-guns and automatic weapons fire do either.

Now the accent is on restraint and selection. Selection of cool-headed and reliable officers who also happen to be excellent shots. Selection of accurate, flat-shooting and dependable rifles and scopes. And careful selection of targets in a sniping situation.

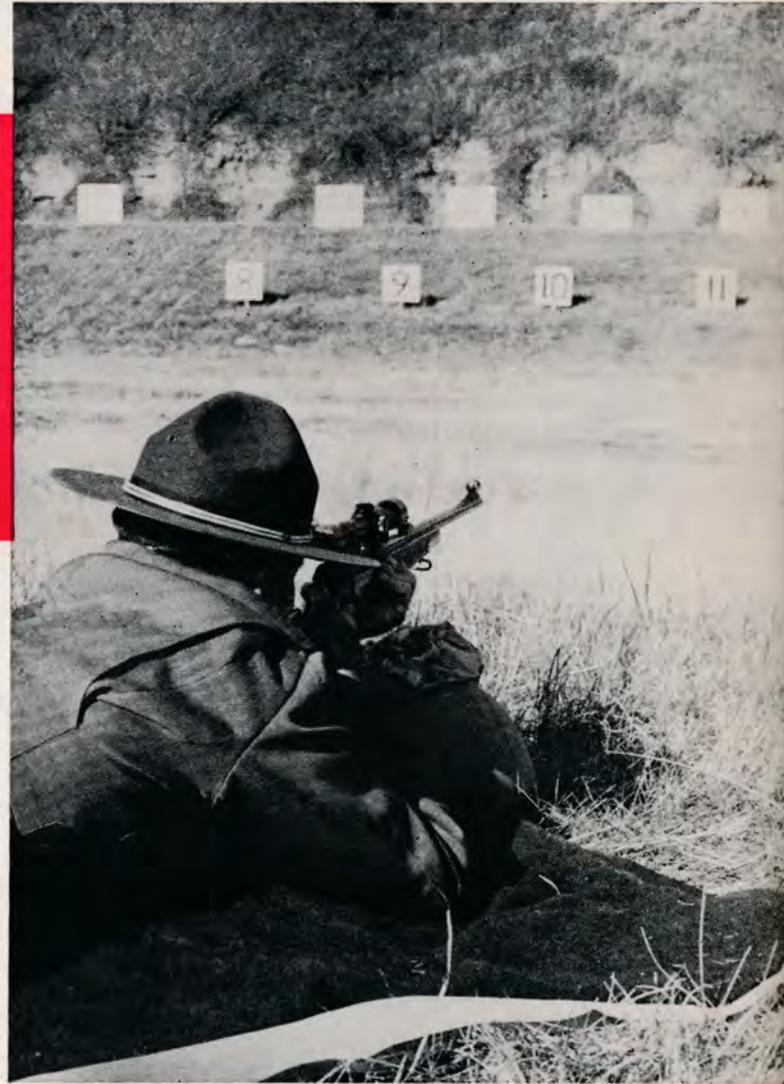
Candidates for the Illinois State Police are given extensive batteries of mental and physical tests, from there are carefully screened and selected, and then go through a lengthy and difficult academy training program before they are finally put on the force. In other words, hotheads and incompetents need not apply. From this rather elite police organization then, members of the anti-sniper force are selected on the basis of marksmanship and aptitude with weapons, and also attitude. Then they are given further training.

When the anti-sniper program was first put into effect, a three-day school was set up and headed by Head Weapons Instructor Sgt. Louis J. Seman. Troopers were instructed in the handling and maintenance of the Model 70

Trooper Ken Gibboney fires on the range while being coached by Trooper Fred Deckard. Most of the firing was done on National Guard ranges and the troopers are now well trained shooters.



Trooper firing on the range at Camp Lincoln Illinois during the first anti-sniper school begun about five years ago. Competition is rough as many Troopers want to get into the program. Each "regular" sniper must be able to keep his scores high in order to stay on the team as there a number of alternates waiting to take his place anytime. At least two alternates are kept in reserve should the first-line man be unable to perform his duty.



Winchester. They zeroed weapons and fired from three basic positions—offhand, kneeling or sitting, and prone—at various ranges on National Guard Rifle Ranges. More specialized training is carried on within separate State Police Districts; shooting from doorways and windows and night firing. All troopers receive refresher training from time to time.

The rifle the Illinois State Police have more or less standardized on for their anti-sniper officers is the reliable and readily available Model 70 Winchester. The Model 70's are all chambered for the .30-06 Springfield cartridge. All rifles are equipped with Lyman 4X scopes with post and crosswire reticles mounted in two-piece Weaver mounts, and all rifles are equipped with shooting slings. Why the post reticle, usually standard for a brush gun? Because if and when these rifles are needed, it will probably be at night or under otherwise very bad light conditions. The fine crosswire reticle, while excellent for precision target shooting, is virtually useless at night.

All rifles are zeroed 2 inches high at 100 yards with the Winchester-Western 125-grain load at 3200 fps muzzle velocity. Mid-range trajectory at 200 yards is 2.2 inches. A .30-06 with the 125-grain bullet zeroed 2 inches high at 100 yards puts the shot on the point of aim at 200 yards, give or take a bit depending on the rifle. It is felt the 125-grain loading is flat-shooting and accurate, and less apt to ricochet off metal surfaces or pavement, etc.

But why was the pedestrian .30-06 cartridge chosen over some of the more modern and flatter shooting jobs? The .264 Winchester, .270 Winchester and 7mm Remington Magnum were all considered, but the old war horse .30-06 was chosen for several reasons. Ranges aren't usually extremely long in most sniping situations, especially in a city. Say 200 yards, possibly 300, and the '06 is certainly equal to that. And it is more than powerful enough for anti-sniper use. Most men can handle its recoil, and it is accurate.

Troopers are encouraged to practice on their own with their issue Model 70's, and there is still a large amount of G.I. ammunition available at low cost—excellent for practice. Also, there is the effective G.I. armor piercing round available for the .30-06, something that can't be had in the

.270 and .264 and 7mm Magnums. An armor piercing round may be necessary at times to penetrate through a building wall or a vehicle.

The Illinois State Police equipped their anti-sniper force with 100 Model 70 Winchesters at the beginning of the program. Since then more rifles have been added. The basic plan is to have 8 rifles or more in each State Police District throughout the state. Troopers selected for anti-sniper work will carry a Model 70 Winchester and 60 rounds of ammunition in their patrol cars, and keep the weapons with them while off duty.

Keeping rifles in a central armory or locked up at various headquarters buildings completely destroys the mobility of an anti-sniper force. In Illinois, state troopers armed with rifles are on duty throughout all districts at all times of the day and night. They can be immediately deployed to an area where they are needed—sometimes in a matter of minutes. And this type of mobility is absolutely necessary for an effective anti-sniper force these days, since a riot situation or terrorist sniping can happen at any time.

Communications are also of the utmost importance to an anti-sniper force. Officers have to know the exact locations of other police, and where the subject is holed up. This is a matter that has to be worked out within individual law enforcement agencies according to local conditions and the equipment available.



Sgt. Robert Riley displays the Winchester Model 70 in .30-06 as used by the Illinois State Police. At the start of the program only 100 rifles were issued but more have been added in an attempt to have eight or more in each District for complete state coverage.

But perhaps the most important element of all, outside the weapons used, for police anti-snipers is judgement. Neutralizing a sniper isn't just shooting at another human being. Often it's keeping a sniper so thoroughly pinned down that other police officers can close-in to smoke him out with tear gas or otherwise subdue him. It may be smashing equipment with accurate rifle fire. One incident occurred where a would-be sniper had set up powerful fans in the room he was shooting from to blow tear gas back out through opened windows. He was giving everyone fits until a police rifleman cut the power lines coming into the building with several well placed shots, and the gas soon forced him to surrender.

Well-trained anti-sniper police armed with accurate and dependable rifles are a definite asset for most large law enforcement agencies, and the coming thing, along with bomb disposal squads and better public relations departments. But above all, the man behind the rifle should be completely familiar with his weapon and load, and be a very level-headed and unexcitable individual.



The .30-06 cartridge (right) was selected over (left to right) the .264 Win. Mag., the .270 Win., and the 7mm Rem. Mag. for the general availability of ammunition and availability of armor-piercing ammunition.





TEST REPORT

By CLAIR F. REES

LAURONA MOD. 67

I HAVE A WEAKNESS for double-barreled shotguns. I like their usually fine balance, their looks, and the fact that they offer the shooter the instant choice between two different degrees of choke.



Perhaps I had better modify that last statement. Most double-barreled shotguns offer a *fairly fast* choice between two degrees of choke, and some inexpensive non-selective single trigger models offer *no* choice. Non-selective models are pre-set to fire the more open barrel first, followed by the tighter barrel—which works fine when the birds are flying away from you, but isn't such a great arrangement when they're flying *toward* you, or when you have the chance for only a single long-range shot.

The more desirable double guns have either twin triggers or a single selective trigger that can be set (by sliding or pushing a button or tripping a lever) to fire the barrels in the desired sequence.

For some unexplained reason, twin triggers have fallen from favor lately among gadget-minded American sportsmen, who apparently feel that selective

Rees and a four-legged partner are admiring a day's limit of western sage grouse shot with the Laurona.

single triggers are more desirable or have more "class" than double triggers.

Actually, double triggers have a lot going for them. They are standard fare on such prestigious shotguns as the plush SO-grade series of Beretta sidelocks, with prices just *beginning* near the thousand-dollar mark. And to someone who is used to them, the classic double triggers really offer a much faster choke choice than any of the selective single-trigger arrangements now on the market.

After only a few times afield with a twin-triggered gun, a nimrod's finger automatically seeks the right trigger as the gun is mounted.

With a single trigger, on the other hand, the choice becomes much less automatic. A gunner must first decide which barrel to use, then remember which firing sequence the gun is set for, and then push the selector button or lever if a change is needed. Only *then* can the trigger be snapped to send the shot on its way.

Single selective triggers do offer a couple of advantages over their twin



relatives—the length of pull (the distance from the trigger to the buttplate) remains constant with each shot, and some might argue that it's possible to get the second shot away faster, since the trigger finger doesn't have to move backward or forward to fire the second barrel.

Now that was kind of a long preamble to introduce a new shotgun that I've been using this past season, but it might give you some idea of why the designer of this gun—the Laurona Model 67-G, now being imported by Jana International, of Denver—came up with its truly unique trigger arrangement.

My over-and-under 12-gauge Laurona sports what Jana calls “twin single” triggers.

Actually, this amounts to *double selective* triggers. The order of firing

is determined by pulling either the front or rear trigger, as with other twin-triggered guns. But after firing the first shot, the *same* trigger can be pulled *again* to fire the second barrel!

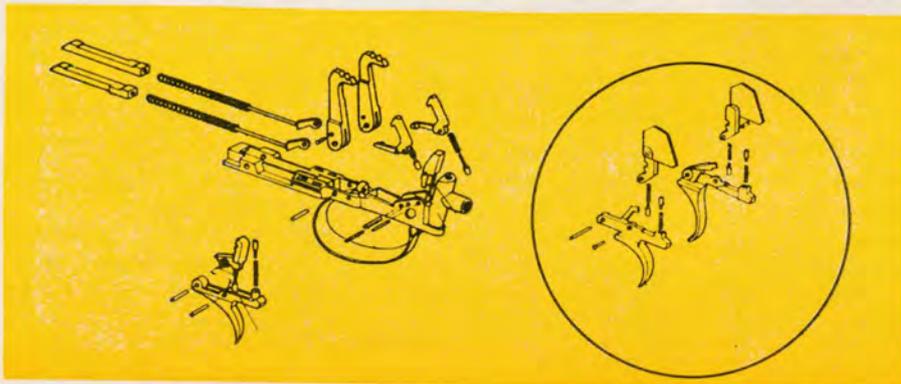
In my opinion, this trigger arrangement is faster by far than any other presently available. The choke is chosen and the proper trigger pulled—all in one reflex operation. And the trigger finger needn't change position to fire the second barrel.

However, if your finger automatically changes triggers—as mine did the first several times I used the gun—no problem arises, as the triggers will also function independently. This is another plus for the system, as the second barrel can still be fired if a misfire occurs on the first try. (Many single-triggered mechanisms are recoil actuated, and will not fire the second barrel until the

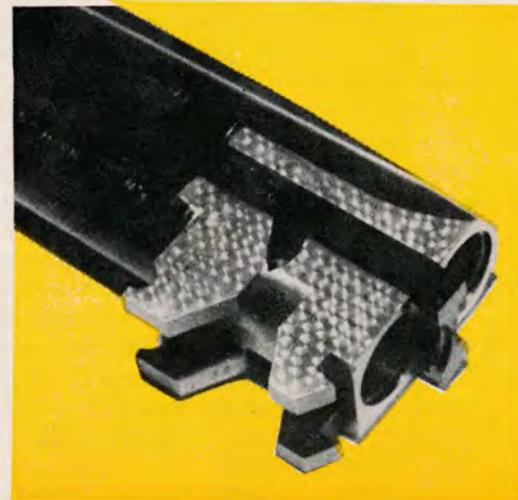
first has fired.)

While decidedly unique, the “twin single” trigger arrangement is only one of several good features built into this surprisingly inexpensive (\$195) Spanish-made import. The gun also has chromium-plated bores, a full-length ventilated rib, hand-checked stock, lightly engraved action, gold-plated triggers, and—most important of all—a good between-the-hands feel that makes it surprisingly lively for a 7½-pound gun.

The sample I have been using has a nicely grained walnut stock, hand checking, and a hard, varnish finish (a plain oil finish may also be had, if preferred). (Continued on page 52)



This exploded view of the Laurona shows two types of triggers available with the twin-single system circled. This new design allows the triggers to be used selectively or as normal twins.



Laurona uses four massive locking lugs to hold the barrel group and the receiver together while firing.



THE HANDGUN

IF YOU purchased a box of ammunition since the enactment of the Gun Control Act of 1968, your name, address and vital statistics are on record, and if you purchased handgun ammo or .22 rimfire ammo, *you are part of a blueprint for handgun confiscation!*

On December 21st of last year, the House passed HR 14233, a bill to eliminate .22 ammo from the requirements of the GCA. The measure died, however, when the Senate took no action on it before the 91st session ended on January 2, 1971.

More important to the gun owner than the death of the bill is what leaked out while the measure was pending before the House. I learned then, from an unimpeachable source, that Congressman Emanuel Celler, Chairman of the House Judiciary Committee, would start legislative proceedings, in the not too distant future, to confiscate all handguns now in private possession.

In short, it was said by a member of Congress that "All handgun ownership must be outlawed as the next step in ending the domestic arms race."

"Handguns," he added, "must go the way machine guns and destructive devices have gone. The

list now maintained of those buying handgun ammunition will be used to confiscate weapons if the anti-gunners have their way." When I asked him how he knew this, he replied: "I was told this by a member of the House who objected to enactment of the bill amending the .22 caliber ammunition record-keeping requirements." He added, "*Those buying .22 ammo will be suspected of owning a handgun.*"

The Congressman asked that his name not be used since he had pointed out a fellow member. Knowing that he had to continue working with his fellow members of Congress, and wishing to have his confidence, I must honor that request.

After hearing this, I called the office of the Congressman who reportedly made these statements, but could not reach him. After trying for five straight days, I assumed that he did not want to comment on it.

I also contacted a source within the Judiciary Committee who stated that he had no knowledge of such pending action, but he would not state that such a legislative move would not be made. "It's too early to tell," he said.

Gun owners have, since the big anti-gun push began, heard of plans for gun confiscation, and they have always related any anti-gun legislation with an eventual ban on firearms. However, 1971 could be the year that the big push is started. The statements above are reinforced by the introduction of several bills in the new 92nd Congress, and the report from the National Commission on Reform of Federal Criminal Laws.

The Commission, headed by former Governor of California, Edmund Brown, recommended that Congress, "*Ban the production and possession of, and trafficking in, handguns, with exceptions only for police and similar official activities; and require the registration of all firearms.*" It should be noted that three of the Senators on this Commission objected to these recommendations; Senators John McLellan, Sam Ervin, Jr., and Roman Hruska "held reservations about some of the proposals in the report."

which would permit a pistol club to be licensed to receive handguns and keep them for its members, provided; "that it has premises from which it operates and, maintains possession and control of the handguns used by its members, and has procedures and facilities for keeping such handguns in a secure place, under control of the club's chief officer, at all times when they are not being used for target shooting or other sporting or recreational purposes."

Remember, this is House bill HR915, and you should tell your Representative how you feel about it.

Let's go on to the next bill. This is a Senate bill, introduced on February 17 by Ted Kennedy, and referred to the Senate Judiciary Committee. It calls for (A) registration of every firearm owned by American citizens, (B) the licensing of all persons who own firearms, (C) *a ban on the domestic manufacture of handguns* "not suitable for sporting or protective purposes." (Continued on page 65)

GRAB IS ON !!!

By CARL WOLFF

On January 22, Abner Mikva introduced HR 915, a bill which would prohibit the importation, manufacture, sale, purchase, transfer, receipt, or transportation of handguns, except for law enforcement, the military, and importers, manufacturers, dealers—and pistol clubs. It is apparent that Mikva picked up a lot of his anti-gun rhetoric from a past master at the art, Tom Dodd. In a statement Mikva began by saying "The great American shoot-out must come to an end." Forgetting that these are the kind of statements politicians like to make, let's look at Mikva's bill to see what kind of a law writer he is. First of all, here is the definition of a handgun as stated in his bill: "The term 'handgun' means any weapon—(A) designed or redesigned, or made, or remade, and intended to be fired while held in one hand; (B) having a barrel less than 10" in length, (C) designed or redesigned, or made or remade to use the energy of an explosive to expel a projectile or projectiles through a smooth or rifled bore." This, of course, could apply to antique arms and black powder shooters!

Mikva, who said: "Handguns have little sporting or recreational value," has a provision in his bill

92^D CONGRESS
1ST SESSION

H. R. 915

A BILL

To prohibit the importation, manufacture, sale, purchase, transfer, receipt, or transportation of handguns, in any manner affecting interstate or foreign commerce, except for or by members of the Armed Forces, law enforcement officials, and, as authorized by the Secretary of the Treasury, licensed importers, manufacturers, dealers, and pistol clubs.

By Mr. MIKVA, Mr. BINGHAM, Mr. BOLLING, Mr. BRASCO, Mrs. CHISHOLM, Mr. CONYERS, Mr. CORDOVA, Mr. HALPERN, Mr. HARRINGTON, Mr. KOCH, Mr. MATSUNAGA, Mr. MITCHELL, Mr. MORSE, Mr. REES, Mr. REID of New York, Mr. ROSENTHAL, Mr. SCHEUER, Mr. YATES, and Mr. PUCINSKI

JANUARY 22, 1971

Referred to the Committee on the Judiciary

SHORTCUTS to MARKSMANSHIP



At Fort Polk, Louisiana, an Army trainee tests his skill on the last phase of Tiger Ridge's quick fire instinct range by trying to hit a soft ball with the special Daisy BB gun. For eye protection, the fire teams wear special sun glasses in the event of ricochets. This "Quick Kill" shooting program has been in use by the Army for a number of years and helps the new shooter develop skills faster and with less emphasis on correct sight picture. Instinct shooting has proven quite effective in Viet Nam firefights.

We have been using the same methods to train shooters for the past half-century. What we need are new methods of instruction to update training and turn out better shooters in less time.

A FEW YEARS AGO there was an hombre that toured the hinterland putting on shooting exhibitions. He was named Lucky McDaniel and he did his stuff with a Daisy air rifle. One of the old fashioned lever-action Daisys, that held 500 pellets and wouldn't hit a milk pail at 30 feet. McDaniel would hand this airgun to an on-looker, just any spectator, and tell him, "Don't look at the sights just look at the mark", and then he would toss a match box into the air. Not very high, not more than 6 or 8 feet. The shooter pointed the rifle at the box, and all the time looked intently at the mark. Believe it or not, in a few short minutes, McDaniel would have his pupil hitting the box.

At the Army marksmanship training unit at Ft. Benning, the selected shooters there, when getting in shape for a big competition, fire nine times over the national match course every day. This is 270 shots. They do this day in and day out and with all the pistols in the battery. Trap and skeet marksmen at the training unit shoot a hundred targets—sometimes more—daily. The riflemen go over the national course every day. This is believed necessary to get in top form.

Is there some middle ground, some area between the easily acquired skill of the Lucky McDaniel pupil and the hard won ability of the Army marksman?

Shooting is an old sport. Practice has grown as stereotyped as only an old sport can make it. We have not changed our methods, nor yet our notions about how skill is attained, a single iota over the past century. We start the tyro marksman in precisely the same manner his father was commenced and it is a long row of stumps. What the game needs is some definitive research to see if our training system is really sound.

To establish if indeed it is really necessary to spend the months and years that is now required to acquire shooting skill, are our shooting positions, for example, really the best? We haven't developed a new shooting posture in the last half-century. Granted that prone, sitting, kneeling and offhand seem to about cover all the poses we can assume, but has anyone actually experimented to see if we have overlooked something here?

And our notions about sight alignment and trigger squeeze are as old as the game itself. Surely there must be some way to improve both. We are in a terrible rut where our methods are concerned. We've closed our minds to the possibilities of change, improvement or innovation.

A couple of years ago the National Board for the Promotion of Rifle Practice came under attack by the anti-gun elements of the Congress. The attack centered on the value to civilian members of the NRA who are provided with military weapons and some quantities of ammo for

Charles Askins

By CHARLES ASKINS



marksmanship training. To defend the position of the NBPRP, a ranking research organization, the Arthur D. Little, Inc. was retained to study the entire National Board program and to ascertain, if it was possible, just how much good did accrue to the citizen who was a part of the National Board training.

The research accomplished by the Little Co. established beyond any doubt the worthwhile benefits which were gained by the individual, and further pointed up the facts that the country was also a gainer for it prepared the young man for military service.

Our shooting game needs precisely this treatment from just such a research group as the Little Co. We need a team of research people to analyze our marksmanship training and a complete study of our approach to the problems of becoming a skilled shot. And, most especially, to show us how we may gain both in time and ability through improved methods. You may be sure there are many ways in which this can be done. Through a too close association with the shooting game we have grown blind to the obvious shortcuts (Continued on page 62)



The family group shoot. We need to improve our marksmanship training methods so that groups such as this may become expert shots more quickly. Early training for a young man also prepares him for the coming Army shooting that may someday save his life in a battle.



GUNS and the LAW

By COL. REX APPLIGATE

REPERCUSSIONS of the incident, last May, at Kent State when four students were killed and eleven others injured by rifle fire, are still surfacing. Fifty-eight Ohio National Guardsmen were injured by rocks, bottles and other thrown missiles during the same action. Outnumbered and outflanked by the mob, a retreating unit of seventy-four Guardsmen resorted to gunfire in self defense, after previous tear gas barrages had been ineffective in dispersing the rioting students.

Controversy over the Guards use, or misuse, of their M-1 rifles is still raging. Some have tried to make the Guard a scape goat, demanding legal, punitive action against individual guardsmen, etc. However, a majority of the American public, according to a Gallup poll, seems to have placed the blame where it rightly belongs, on participating students and non-students, some faculty members, and a weak college administration. A special Ohio Grand Jury ruled:

"It should be made clear that we do not condone all of the activities of the National Guard on the Kent State University campus on May 4, 1970. We find, however, that those members of the National Guard who were present on the hill adjacent to Taylor Hall on May 4, 1970, fired their weapons in the honest and sincere belief and under circumstances which would have logically caused them to believe that they would suffer serious bodily injury had they not done so. They are not, therefore, subject to criminal prosecution under the laws of this state for any death or injury resulting therefrom."

The Grand Jury heard over 300 witnesses and viewed photos, audio tapes

and movies and examined reports of police and Federal investigators. It concluded that:

"... the weapons issued to the National Guardsmen are not appropriate in quelling campus disorders. Testimony presented to this Grand Jury reveals that the commanding officers of the National Guard are in agreement that the M-1 rifle and other high powered weapons are not the type of weapons suited to such missions, except in those instances where required to return sniper fire. Unfortunately, however, under current procedures, no other weapons have been made available to the Guard by the Department of the Army. Non-lethal weapons more appropriate in connection with campus disorders should be made available to the Guard..."

Although since the Kent State incidents the National Guard has been made the whipping boy by much of the press, the Army has also come under severe criticism from other sectors for not developing and issuing to Guard units more applicable non-lethal weapons. Actually, the overall record of the National Guard has been outstanding, irrespective of its lethal type basic armament. Between 1965 and May 1970, the Guard participated in 291 local disturbances involving calling out of a total of

The Kohaut two-handed riot baton.



327,000 men. When this fact is weighed against the number of rioter fatalities and type of violence encountered, the picture is entirely unlike that depicted by much of the media.

The Defense Department, due to increased political, public and other pressures, has just announced a most significant change in its riot control policy and philosophy. Control of civil disturbances are now, for the first time, recognized by the Army as a national responsibility. They are no longer considered as purely state or local jurisdictional problems. Under the old approach, the Army had an over-riding and paramount interest in equipping and training the Guard for military combat. It had a very low priority approach to a civil law enforcement support function. Arms and equipment were issued, accordingly.

In 1971, subject to funding from Congress, the Defense Department has announced plans to issue the Guard 140,000 plastic helmet face shields; 140,000 protective flak vests and a similar quantity of civil police type, wooden riot batons. Large quantities of special issue, civil law en-

Chemical Mace® tear gas projector.





forcement, riot type equipment such as bull horns, flashlights, chemical agent dispensers, shotguns and single band radios are also to be issued. Since the countries' first major, post World War II riot at Oxford, Mississippi in 1962, civil police riot non-lethal weaponry development has far out-distanced military efforts. Now military programs on riot equipment and weaponry development that have lagged, due to demands of Viet Nam war, will be stepped up. The armament emphasis will be placed almost entirely on the non-lethal weapon categories. Coupled with this effort are tighter restrictions on military use of deadly force. Basic Army manual 19-15 on Control of Civil Disturbance is being revised, accordingly.

It is quite likely that G.I. counterparts of successful civil law enforcement weapons such as the Chemical Mace®, the Ferret 12 gauge barricade projectile, the Pepper Fogger®, and the 36" wooden riot baton will soon become part of the military family of riot control weapons. Coincidental with the expected new non-lethal weapons development thrust by the Army will probably be other civilian slanted development programs funded by the Department of Justice under the Omnibus Crime Bill Authority. All in all, this means that no resource, idea, talent or known but unproven existing device will be neglected in the government and private industry search for "softer" weapons. Many development items that have died in the past for lack of funding, or governmental backing, may yet be given a new lease on life.

Comments to follow will cover the majority of non-lethal riot weapons now in law enforcement use, or under past or present development. Some of these weapons have previously been covered in detail in this section and will be only briefly mentioned again. Many of the so-called non-lethal weapons are not that at all and the

term is a misnomer. Some are merely less lethal than others. Many so-called non-lethal riot weapons now in use have a multiple function and are also employed for general police duty, self defense and security situations.

Unfortunately, there is a lot of "built in" initial resistance to adoption of any new law enforcement type weaponry. Some of this opposition to new concepts is traditional and results from a lack of proper indoctrination and complete testing. Some weapons systems have been introduced that evolved a lot of the final development being done at the expense of the police agency involved. In some cases, new weaponry developments, that have been widely heralded in the press, meet resistance because of claims that the new weapon will eliminate the police need of a firearm, etc. In this category, any implication that the new weapon, irrespective of merit,

is to completely replace the sidearm or riot gun results in insurmountable police resistance to such a change. In these times of increased sniping, armed criminal violence, riots, and police ambush, any new weapon that threatens to entirely replace the firearm is doomed to failure unless presented in its proper context and relationship to special police situations and needs. All of these facets should be considered before any such weapons development, or procurement program is initiated.

The need for more options as to degrees of less than lethal force in handling civil disturbances has always been a problem. In this respect, U.S. civil police have long operated under more restrictive ground rules than the military and their non-lethal armament for riot control has become more sophisticated. Hopefully the decade of

(Continued on page 61)

The Shok Baton is one of the most effective of all close contact police weapons. The high voltage, low amperage charge is harmless but painful.



.45 AUTO ACCESSORIES

By GEORGE C. NONTE

DOUBTLESS John Browning would throw up his hands in disgust if he could but see the things that have been done to his justly-famous .45 Automatic. The outgrowth of patents and development from 1897 onward, the M1911 pistol represented Browning's passion for simplicity, reliability, and durability.

The service this gun has given U.S. troops—not to mention dozens of other armies—over the past 60 years would seem to indicate it's a pretty damn good gun. It must be. And, yet, in spite of all that, it has probably been more modified, altered, gunsmithed, and added-to than any other handgun in history. Maybe it doesn't seem so, but when one sits down and starts adding up the things that are routinely done to the big .45, the list seems almost endless. So-called "accurizing" in the usual sense is only a small patch on the overall picture. Discounting the many accurizing procedures and various modifications of the basic components—which would in themselves take a full-size book to describe—we've come up with the following; and I'm certain we overlooked more than a few things.

More gadgets have been devised and marketed for improving the big .45's accuracy than for any other purpose. Here are the most effective and prominent:

Tight Bushing: Simply a new barrel bushing, thicker and heavier than the original; oversize outside and under-size inside. The latter to permit hand-lapping to a perfect fit on the barrel; the former to insure a very tight assembly to the slide—usually so tight a special wrench is required to remove



and replace the bushing. Tight bushings have been offered by many large and small makers and custom 'smiths. Currently they may be obtained from Pachmayr and Micro, to name a couple. One note—they don't help a bit unless carefully and professionally fitted.

Recoil Buffer: A recoil spring guide rebuilt to contain a separate buffer rod and spring. In functioning, the slide moves freely rearward at first, against only the recoil spring, then is progressively slowed as it strikes the buffer and compresses the buffer spring. The result is softer (slower) halting of slide travel, and reduced secondary recoil caused by slide movement. Can be installed seconds by simply substituting for the recoil spring guide.

Long Link: A new barrel link, usually thicker than the original and fitted with a larger, carefully-fitted pin. Also available from Pachmayr in a much thicker version. The two pin holes in a

Long magazines of all sorts, from the standard 7-shot, on up to 40 shots, including this one for 25 rounds can be purchased from Triple K Manufacturing. They are a bit too un-wieldy for combat use but are great for casual work.



If long barrels and high velocities are your forte, many extra lengths are offered in both .45 and other calibers by Clerke. Shown above is the 7½" length installed on standard slide.

long link are slightly farther apart than in the original, causing the barrel to be raised higher and into firmer contact with the slide when locked up. Long links can be fitted by the owner, but require careful work. Poorly fitted, they don't help a damn bit.

Match Barrel: Usually a standard barrel with additional metal left at muzzle for fitting to the bushing (or already fitted with a matched bushing as in the U.S. Army "National Match" barrel/bushing set) and an extra-long hood or tang for fitting to the slide for firmer lock-up.

Lock-up Block: Available only as the rib component of a Bo-Mar target sight. The rib extends forward for careful fitting to the barrel tang to improve lock-up.

Sights: It is impossible to list here all the sights made for or adaptable to the big .45 and its blood-relatives. For pure target work the products of Micro, Bo-Mar, and Elliason are tops. For combat use the MMC and custom-fitted S&W revolver target sight are tops. MMC and Micro offer models that do not require cutting of the slide; others require new dovetails and clearance cuts. Unique among the rear sights is the new single-unit sighting system "Guttersnipe." It requires gunsmith installation and is fixed thereafter (no adjustment) and requires elimination of the front sight. Excellent for combat use.

Long Barrels/Long Slides: Clark and other pistolsmiths offer .45's with slides extended to suit 6" or longer barrels for target use. Clerke Techni-corps offers special barrels in many lengths to increase accuracy and/or

Right: "Double-Ace" squeeze-cocking conversion unit greatly increases versatility of the old workhorse. Unit replaces the grip safety and the mainspring housing: Below: Long link pushes barrel up against the roof of the slide and locking lugs for better alignment, accuracy and rigidity at the moment of firing.



Tops among independently-made target sights is this Elliason Model GMS which has been oft copied by others.

velocity. These barrels are intended for use with standard-length slides, so protrude in a strange-appearing manner. Long slides, incidentally, are usually made by welding two appropriately-cut standard parts together.

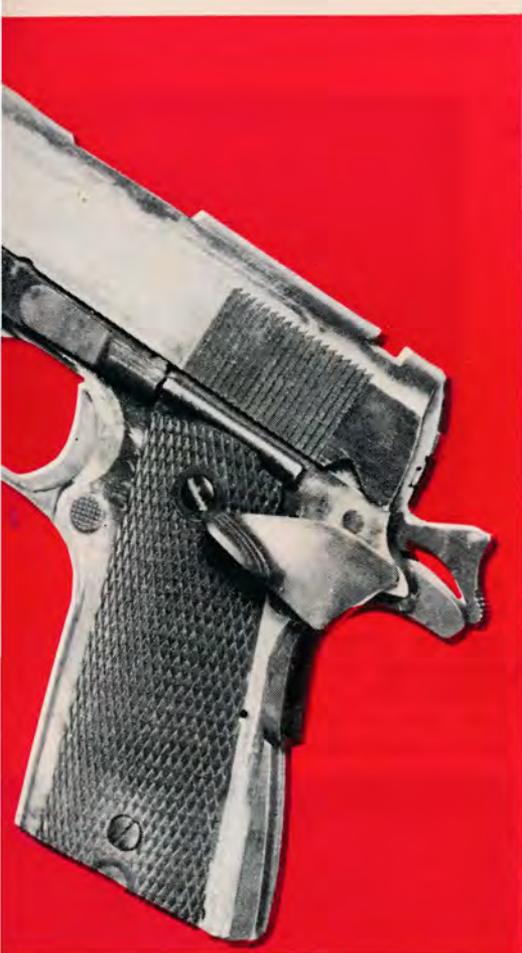
Conversion Units: Colts has for many years offered its conversion unit (in one form or another) to permit practice with low-cost .22 LR ammunition. It works well for this purpose but can be a bit cranky unless kept scrupulously clean. No other conversion units are commercially available, but any pistolsmith worth his salt can assemble a .45 conversion unit in 9mm or .38 Super or .38 Special without trouble. If one wishes to have a special barrel made up by Clerke, then other calibers, including 7.63mm Mauser and 7.65mm Parabellum (Luger) are readily possible. A six-inch or longer barrel in either of those last two offers interesting high-velocity possibilities.

But accuracy alone isn't always the goal. In fact, too diligent a search for pure accuracy often reduces the old wargun's famous reliability. Tightly-tuned guns may produce one-hole groups on paper under ideal conditions, but the combat pistolero demands maximum speed and ease of handling; maximum reliability under



A very nicely made aluminum alloy frame for the 1911A1 from Sarco enables almost anyone to build a lightweight gun from cheap military surplus parts. Frame must be bought just like a handgun since it is a serial numbered item. FFL's only!





To cock .45 hammer from the full down position, "Auto-Cock" lever is pressed down to this position.

all conditions. So, let's look at some of the items intended to further that interest.

Over the years many people have bemoaned the lack of a double-action first-shot capability in the old Government Model. Several people have told me they could convert the gun to D-A, but the job would be too costly. Mebbe so—I've never tried it, though the idea is tempting enough.

One C.A. Raville—whose outfit is appropriately called Caraville Arms—set about to solve the thumb-cocking problem in another way. He now offers his drop-in D-A conversion kit for \$39.95. Calling this unit's function "double-action" in the usual sense of the term is misleading—something like "squeeze-cocking" would be appropriate. But, by whatever name, it works very nicely. It is sold as the "Double Ace."

The unit works thusly once installed: Load gun, including a round in the chamber; press the trigger *without* depressing new grip-safety/mainspring housing, allowing the hammer to fall to a safe, rest position short of the firing pin; to fire, squeeze the backstrap with the heel of the hand; this forces the hammer to full cock; pressure on the trigger will fire the gun in the usual manner, and the hammer will remain at full cock afterward; depress

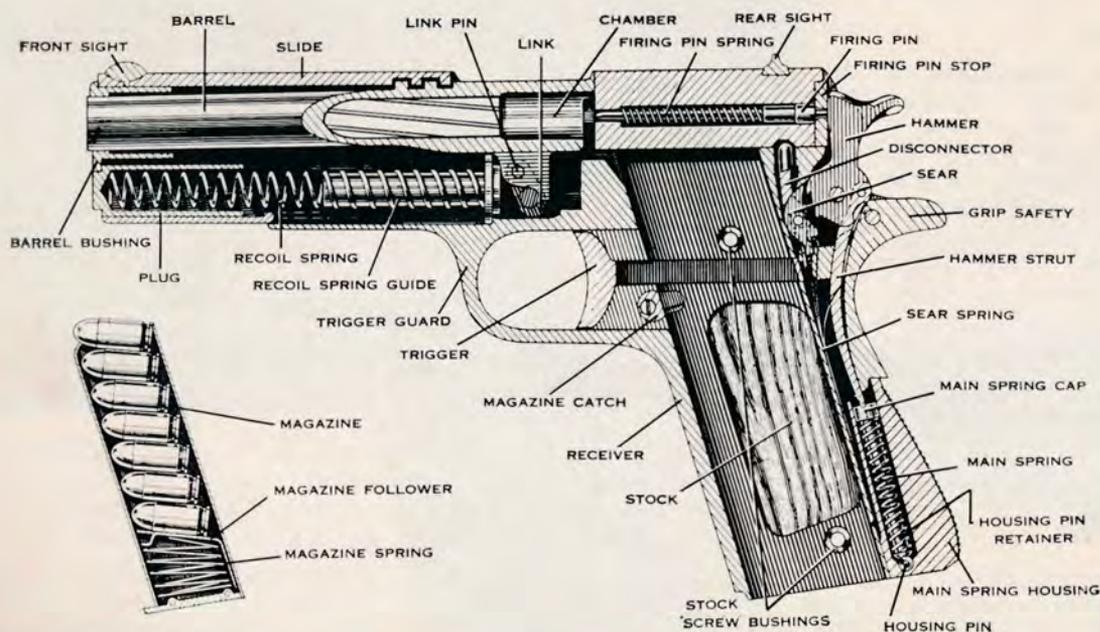
the backstrap and pull the trigger for subsequent shots; to make it safe after firing, press trigger *without* depressing backstrap and hammer will fall to safe position from which it may be thumb-cocked or squeeze-cocked.

Alternatively, the gun may be fired from the safe condition by *first* pressing the trigger, then squeezing the backstrap to raise and drop the hammer. Raville calls this "double-action" firing and, in a way, it is. For one trained to fire with the trigger finger (in either D-A or S-A), it takes a good deal getting used-to. After sufficient practice, though, good close-range combat accuracy can be obtained. The big stumbling block in D-A work with this unit is in converting from finger-firing to palm-firing—it just doesn't come natural to me.

Raville's unit eliminates the following original parts: thumb-safety, grip safety, mainspring housing assembly, and hammer strut, with all their assorted pins and appurtenances. In their place go a new longer hammer strut and mainspring; and a housing (full length of the backstrap) pivoted where the safety pin originally entered. The housing carries a roller-mounted crank and linkage connected also to the hammer strut.

When the (Continued on page 54)

COLT GOVERNMENT MODEL AUTOMATIC PISTOL CALIBER .45



COLOR



CASE - HARDENING

Gun parts, case hardened in color are handsome, but the process is not for the do-it-yourselfer.

By D. A. STAWARZ

Case hardening of iron or steel is an old heat treatment process which creates wear resistant surfaces. The wear resistance is due to a superficial layer, or "case," which has been enriched with carbon. Although the surface layer is file hard after carburization, the interior of the metal part will be essentially unchanged, with its original strength or toughness unimpaired. By varying the technique, the case hardened surface can also be attractively colored. When applied to gun components, this is generally called color case hardening.

Traditionally, the lock plate and hammer on muzzle loading firearms, the frames of some revolvers and single shot rifles, and the receivers of double barrel shot guns were typically color case hardened. Modern examples are usually limited to replica muzzle loaders, although the frames of some single shot and double barrel shot guns can also be included. Although modern and antique examples are often encountered, I found that the information readily available on color case hardening was either obscure or non-existent. Since the restoration of an old firearm or the fabrication of a replica muzzle loader

often requires color case hardening for authenticity, I attempted to learn more about the process.

Although gun components are generally described as being color case hardened, most modern examples are probably a product of cyanide mottling. Cyaniding or liquid carbonitriding is a standard case hardening process. In this method, steel parts are heated in a molten mixture of sodium cyanide, sodium carbonate, and sodium chloride (salt). When immersed in the molten salt bath, the surface of the steel absorbs carbon and nitrogen, which leaves the surface file hard after quenching. By varying certain aspects of the cyanide process, the surface of the steel part will become cyanide mottled and will have what usually is described as case hardened colors.

Because cyanide is extremely lethal, cyanide mottling is *NOT* a do-it-yourself process. Since special equipment and toxic material is required, color case hardening is best left to professional heat treatment shops. Although doing it on the kitchen stove is definitely out of the question, a working knowledge of the process could be an asset. A local heat treatment shop might have the necessary cyaniding equip-



Martini-Henry single shot rifle which the author color case hardened. Because of the high heat, precautions had to be taken to prevent warpage of the thin walls. Colors were produced by quenching in aerated water containing 10 per cent potassium nitrate.

ment, but since they are not gun orientated, a process description might be helpful.

Cyanide mottling requires a special furnace equipped with a temperature controller and ventilation facilities. A cast iron or steel pot containing a mixture of 30% sodium cyanide (NaCN), 40% sodium carbonate (Na_2CO_3), and 30% salt (NaCl) is maintained at a temperature of 1400°F . At this temperature, which is approximately a dull red heat, the salt mixture is molten. The steel or iron parts to be treated are given a polished surface which should be free from grease, oil, or fingerprints. The part is attached to a length of steel wire and is preheated on a hot plate to eliminate moisture which could splatter the molten cyanide salt. After preheating, the part is carefully immersed into the molten salt mixture for a short interval before being withdrawn by the wire and quenched in a water solution. Any salt adhering to the part after quenching will be washed off with

boiling water, before the surface is given a final drying and oiling. The part will now have a file hard surface which is also very ornate.

The interesting aspects of cyanide mottling are the quenching solutions and the quenching techniques. The variations in quenching solution, which I found successful, gave the three color combinations shown in the photograph. Quenching into a cool, still water solution containing 10% potassium nitrate (KNO_3) gives a blue surface color. A water solution containing 10% sodium nitrate (NaNO_3) also gives a basically blue surface but it seems to have a red cast to it. Quenching into cool, still water gives a subdued gray on white color to the case hardened part. The items in the photographs were cut from mild steel into shapes resembling butt plates. If compressed air is bubbled through the quenching solution, the color remains the same but the pattern becomes fancier. Regardless of which solution is used, each piece

treated will have a unique color pattern after quenching.

Variations in the color pattern, such as rings and stripes, can be produced by immersing the job gradually in the quenching bath about one inch at a time. The lock plate is an example of this technique. To achieve the most appealing color pattern, the piece can be reheated in the molten salt mixture and re-quenched several times. However unless the quenching solution is kept cool, the color will vary. The lock plate was re-quenched six times in a small jar of potassium nitrate solution. I believe the color of the lock plate is different than that of the butt plates because the quenching solution was not kept cool. Although the temperature of the quenching solution has an effect, the color will also vary between different types of steel. The color difference between the hammer and lock plate is an example of this.

Color case hardening the Martini action was the climax of my limited experience with cyanide mottling. Although the quench was the standard aerated water solution containing 10% potassium nitrate, the quenching technique was more exacting. There is a practical limit to how many times a particular

piece can be reheated and re-quenched. Warpage could become excessive or the hard case layer could penetrate thin sections excessively and later crack under load. To minimize these effects, the salt bath temperature was closely controlled to 1400°F since a higher temperature will cause more warping and also accelerate the rate of case penetration.

To be certain good colors would be produced, the salt bath and quenching solution was first tested with a piece of scrap steel. This eliminated the need for reheating and re-quenching the Martini frame. Because the Martini frame has thin side walls which might warp easily, a close fitting filler block was inserted inside. Even with these precautions the frame still required some minor spreading of the side walls to allow the trigger guard and breach block to fit properly.

The colors and color patterns produced are only possible by color case hardening. Although heat is required with some bluing methods, these coloring techniques should not be confused with color case hardening. With methods such as bluing by direct heat and hot chemical bluing, the final product is a

(Continued on page 57)

These three butt plates were color case hardened with different quenching solutions. Left to right: potassium nitrate; then a sodium nitrate solution; lastly, cool still water. Patterns—but not colors—would change if the quench solutions would be aerated.



Guns
MAGAZINE'S

MAN OF THE YEAR

JOHN WAYNE





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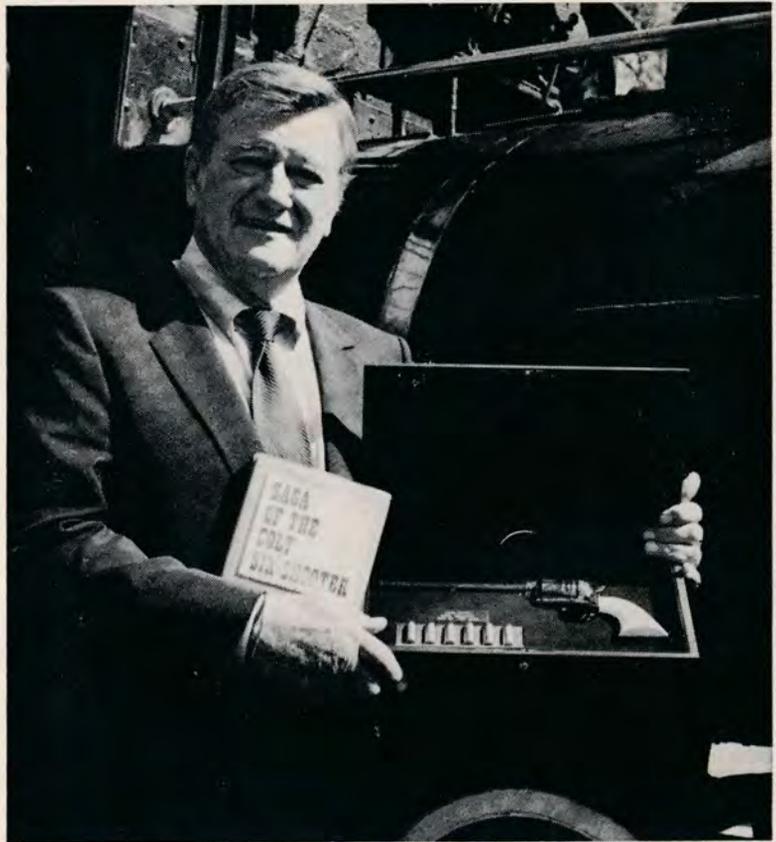
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GM JUNE GUNS Magazine

SAMPLE FOR INFORMATION ONLY

JOHN WAYNE ACCEPTS "MAN OF THE YEAR" AWARD



With a broad smile, John Wayne accepted the handsome engraved Colt Single Action which represented his selection as GUNS Magazine's "Man of the Year" for 1970. (See center spread for presentation poster).

The award ceremonies took place on February 26, at Knotts Berry Farm and Ghost Town, a popular tourist spot which recreates a Western town of the gold rush days. The latest addition to the attractions at the Farm is the John Wayne Theater, now under construction. Representing GUNS Magazine were Walter Rickell, our west coast correspondent, and Jim de Vita, owner of the Costa Mesa Gun Room, who handled the paperwork necessary under the GCA of 1968. (For those in the Costa Mesa area, Jim plans to have the presentation gun on display in his shop during the time this issue is on sale).

A man of strong convictions, John Wayne—on the screen and in real life—is a man of action, and a fitting recipient of GUNS Magazine's first annual "Man of the Year" award.

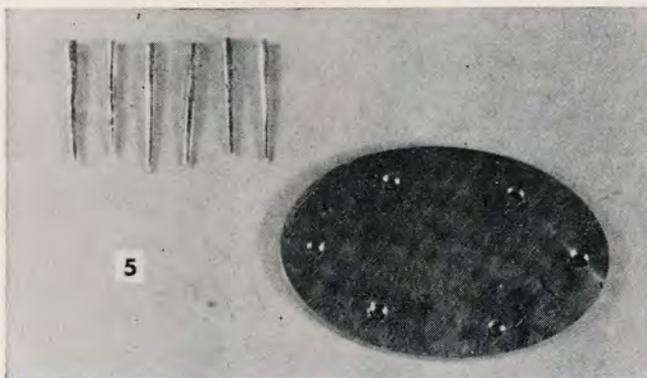
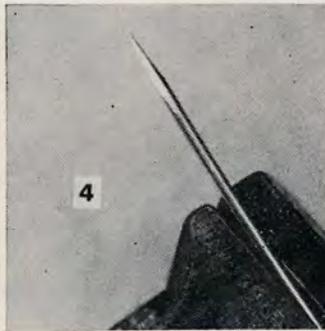
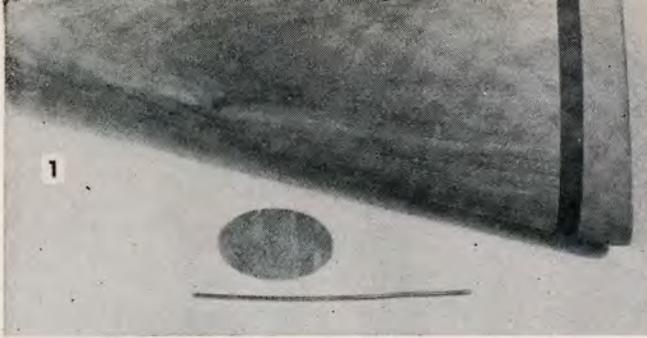
INSTALLING A

By JIM CARMICHEL

THERE ARE few, if any, custom accessories that will add so much "class" to your shotgun or rifle for so little cost and effort as a monogram inlay engraved with your initials. A simple item, to be sure, hardly noticeable in fact. But a small oval of gold or silver inlaid in your stock and engraved with your monogram adds just that something extra it takes to make your shooting pals turn a satisfying shade of envious green. And the really good thing about this monogram inlay project is that it really is a "high return" project. That is to say that it doesn't cost much, is an easy one-evening project but yet adds greatly to the overall appearance of a sporting firearm.

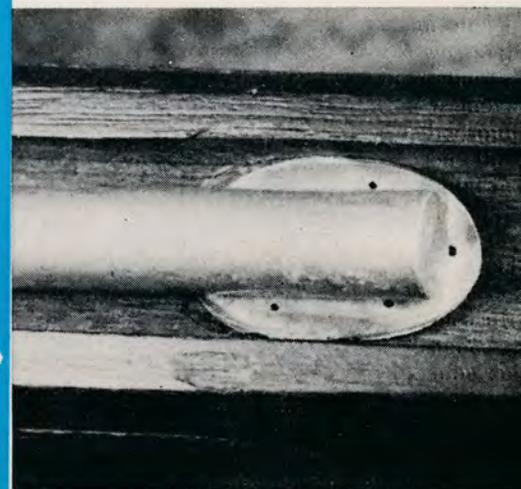
There are several ways of attaching a monogram inlay and, frankly, one or two are easier than the method described here. Our technique, however, is the "English Classic" and be whatever it is, snobbishness perhaps, this is the technique preferred by fanciers of fine guns. In effect, all the technique amounts to is simply nailing the inlay in place with six tiny silver or gold nails. Too, and this is a curious point, *the nails must not be so well fitted as to be invisible!* If the outlines of the nails don't show there's no proof that the "English" method was used. Therefore the work will not be so highly esteemed! Ah, vanity thy name is gun nut.

Though several different metals such as gold, silver, German silver, steel, brass, copper and aluminum can be used for inlays brass, gold and silver are the most commonly used. Naturally, gold is the most desired as well as the most expensive. Nonetheless, the total cost for enough solid 14 Karat gold sheet and wire for one inlay shouldn't run over ten dollars. Silver and brass, of course, are much cheaper.



1. Here's all it takes: an oval inlay, a piece of wire and a stock to put it in. 2. Centerpunching the six nail-holes before drilling them. 3. Holes are drilled with a #66 bit, or thereabouts. 4. Detail of a hand-filed point. 5. Inlay and six nails ready to be installed. The preparation of these items will be a deciding factor in the outcome of the job. Careful inletting of the stock certainly pays off.

6. Inlay was curved properly by hammering it into a barrel channel. The rod is hit with the hammer rather than the inlay. This way the inlay comes out smoothly curved and unmarred. 7. Two of the nails are used to hold the inlay temporarily in place. 8. Careful cutting of the first lines is necessary and steps should be taken to insure chips are not made at the outer edges. 9. Be sure to use a chisel small enough to fit inside the diameter of the pattern or you will mar the outer edges. Caution should be exercised and the depth is to be controlled for a good fit. 10. The finished, polished inlay.



Monogram Inlay

The sheet gold and gold wire used for our project was of 1 mm thickness and diameter, but this is actually somewhat thicker than necessary. A more ideal thickness would be 21 gage metal (.0343") and wire. A square piece of sheet, some 1" x 1 1/4", will make a nice size oval and three inches of wire will make six half-inch nails.

Gold or silver wire and sheet can be purchased in some jewelry shops but a better place to look is hobby shops specializing in jewelry crafts. If not available locally order direct from a jewelry supply house. Southwest Smelting & Refining Co., Box 2010, Dallas, Texas 75221 is one such outfit.

After trimming and filing the inlay to the desired shape, center-punch the six nail holes and drill with a number 66 bit. Though this size drill is only .033" and the wire diameter is .043 (21 gage), the fit will be about perfect after you get through shaping the nails. Now lightly countersink the holes and you are ready to make some nails.

The wire is simply clipped into six, half-inch lengths and the end of each piece sharpened. Getting a sharp, tapering point on these tiny pieces of wire can be pretty tedious but it helps if you hold the wire in a small vise and file a taper on six or eight sides.

Forming a head on the nail requires only a few taps with a light hammer. The trick however, is gripping the wire securely while the head is being formed. A three-jawed chuck, we found, is about perfect.

Getting a smooth, stock fitting curve on the inlay is easily accomplished by simply placing it in a rounded channel, placing a 1/2" rod on top and striking the rod a few good licks with a hammer. This way the inlay will come out smoothly curved and un-marred. For a forming

channel we use the barrel channel of a discarded stock.

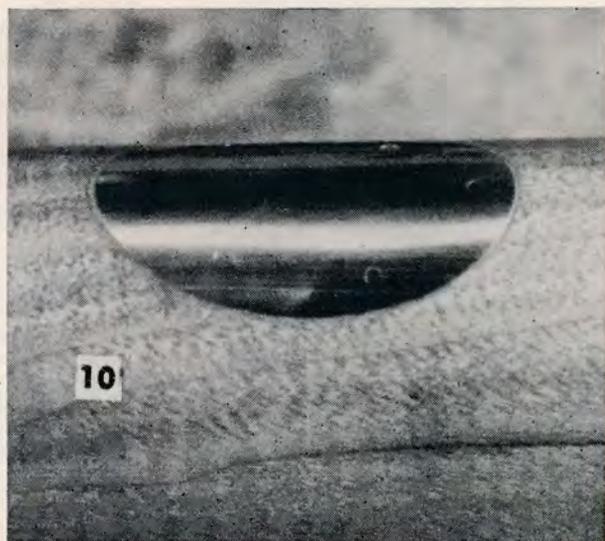
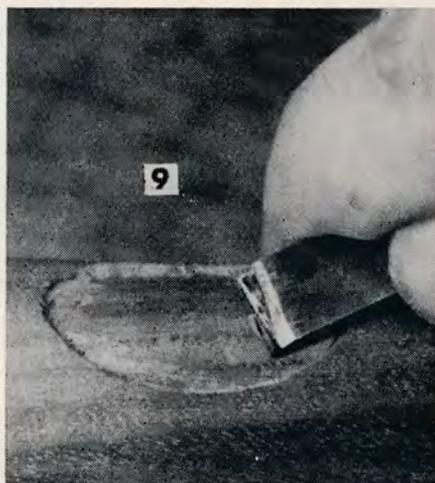
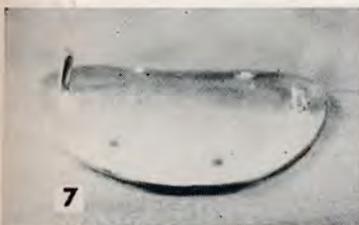
Begin the inlaying by temporarily attaching the inlay to the stock and tracing the outline with a slim-bladed knife. The traditional location for a monogram inlay, by the way, is about three inches forward of the buttplate.

With the outline cut to full depth remove the inlay and, using a small chisel, shave away the wood where the inlay is to fit. Not much cutting is required here, only about 3/4" deep or so will do. Upon repositioning the inlay you will find that it does not fit properly even though the inlaying appears perfect. This is because of the curvature of the stock. Further cutting is required along the "downhill" sides of the inlaying to allow for the "gain" as the inlay is lowered into its slot. Here you'll just have to use the good old cut-n-try technique.

With the inlay fully in place at last you can begin driving in the nails. A few light taps on each nail head flows the metal into the countersinking and helps insure a really close fit. However don't try to hammer the nail heads flush with the inlay or all you'll accomplish is bending it out of shape.

The nail heads are filed flush with the inlay and the inlay is worked flush with the stock. Gold and silver cut so easily that a bit of finishing paper wrapper around a file cuts fast enough as well as leaving a flat, smooth surface. For final polishing use extra fine steel wool.

If there isn't a gun engraver in your neighborhood who can cut your initials on the inlay just visit your local jewelry store. They'll probably have someone who is pretty good at engraving nice monograms. Cost usually runs about a dollar per letter. 



ALTHOUGH this style is usually called a "Flight Boot," it is ideal for walking, driving, riding, or general wear. Takes a high gloss polish and makes a nice dress shoe. Hand lasted and finished. Seven-inch tops and vamps with wrap-around ankle strap. Calf leather, lined



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TWO NEW Sierra bullets for 6.5mm and 7mm rifles are now available for target shooters looking for increased accuracy at distances up to 1000 yards.

The new 7mm .284 diameter bullet is a 168 gr. Matching hollow point and retails for \$6.05 per 100. The 6.5mm bullet has a .264 diameter. It is a 140 gr. Matching hollow point and retails for \$5.75 per 100. Both bullets are available nationwide at Sierra dealers.

SHERIDAN'S new polypropylene pellet box containing 500 rounds provides for easy loading. The small, inset, hinged dispenser permits removal of pellets one at a time, or the top can be opened to empty the box. The 5mm (.20 caliber)



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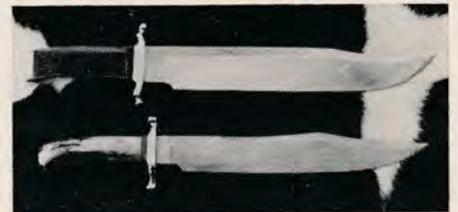
the roads, waterways, dams, and cities which are being planned today. Starting salaries are tops for beginners. Working conditions are in the great outdoors. No technical skill is needed. Write today for your free Surveying Career Kit including 20-page fact book. All free and without obligation. Send today! North American School of Surveying and Mapping, 4500 Campus Drive, Dept. 63003, Newport, California 92660.

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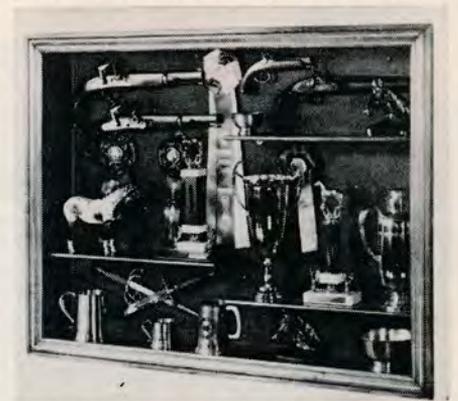
those with telescopic sights. Two sizes available for handguns also. As it is made of a soft material, it can also be used as a field cleaning cloth on the exterior of the firearm. Retail, \$2.50 (rifle/shotgun), \$2.00 for the handgun model. Write E & C Enterprises, Dept. G-6, Box 823, South Pasadena, Calif. 91030.

FOR SOME of the finest in sporting, combat and collector's knives, Blackie Sewell Custom Knives offers the enthusiast classic engraving, etching and inlays on the finest craftsmanship. The top knife pictured is of the Bowie style, has a 13-inch blade, black horn handle and brass mounts. Price, \$350.00. The smaller knife



has a stag handle with brass mounts, 12-inch blade and outstanding workmanship like all Sewell knives. Priced at \$200.00. More information is available from Blackie Sewell, 74 Old Alabama St., Dept. GR, Underground Atlanta, Georgia 30303.

DESIGNED with "elbow room" for loving cups, pistols, steins, etc., this all purpose trophy cabinet holds items that just don't fit in smaller cases. Rich pine flatters prized possessions. Textured burlap backing (specify color—red, natural, gold or avocado) adds warmth. Sliding plexi-glass doors keep out dust and they lock



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SHOPPING WITH

Guns

AN extremely attractive line of 24 exciting new personal accessories for the shooting sportsman is now available from High Standard Sporting Firearms. A colorful catalog is available free and it pictures and lists unique accessories such as handsomely designed cuff link and tie bar sets featuring a miniature High Standard Citation target pistol; a 16-ounce ceramic shooter's mug; a Sierra match bullet paper weight made of



a solid block of crystal plastic; and an ashtray of smoked Swedish glass that features a reproduction of a mailing card used by William Lyman in 1880, and more. There are many other accessories listed that will appeal the shooting enthusiast. See a High Standard dealer or write to High Standard Sporting Firearms, Dept. G-6, Box 4340, Hamden, Conn. 06514.

BROWNING Arms Co. now has a line of center fire rifle ammunition and center fire handgun ammunition available. Available in the rifle line are: .222 Rem.; .22-250 Rem.; .243 Win.; 6mm Rem.; .270 Win.; 7mm Rem. Mag.; .30 Carbine; .30-30 Win.; .30-06 Springfield; .300 Savage; .300 Win. Mag.; .303 British; .308 Win.; .32 Win. Spl.; .338 Win. Mag.; .35 Rem.; .375 H&H Mag.; and .458 Win. Mag. Available in the handgun line are: .25 Auto; .32 Auto; .32 S&W; .32 S&W Long; 9mm Luger; .357 Mag.; .38 S&W; .38 Spl.; .380 Auto; .44 Rem. Mag.; .45 Auto. There is also a long list of Browning bullets available as well as unprimed brass for both rifles and handguns. For more information, write Browning Arms Co., Dept. G-6, Route 1, Morgan, Utah 84050.

NOW YOU can give your weapons the same excellent wear and corrosion protection the military gives its weapons with Reese Dry Film Lubricants. Designed for, and used by the military. Two types are available; "Reese 500" and "Reese 1000." The "500" is ideal for home application. The air drying material is packaged in both aerosol and bulk cans. Covers approximately 8 square feet. "Reese 1000" is a bake-on formula to be used on very high wear areas. The finish resembles that of the Army's M-16 rifle. After much wear on high pressure points, the finish may appear to be gone, but the lubricating qualities and anti-corrosion properties are still there. For more information, write Reese Arms Co., Dept. G-6, R.R. #1, Colona, Ill. 61241.

A FLAT-SHOOTING versatile .25-06, fast enough for varmints and hefty enough for whitetail deer, and a heavy hitting .375 H&H Magnum African big-game rifle are two new rifles from Sako for 1971. They are both in Sako's Finnbear series and are available in both Sporter and Carbine configurations. Both will weigh approximately seven pounds. The Sporter models will sell for less than \$243.00 and the carbines are listed at less than \$270.00. More information can be had by writing to Garcia, Dept. G-6, 329 Alfred Avenue, Teaneck, N.J. 07666.

THE NEW Marksman 4000 has authentic big game styling and a lineup of precision engineered features to match its looks. Cocked by the popular "Easy Break Action" barrel, completely air powered. No expensive CO₂ cartridges to buy. It shoots BB's, .177 caliber pellets or darts. Powerful spring action,



400 shot BB repeater. Precision steel barrel, diecast alloy working parts, and a super-strength stock with handsome walnut wood grain finish. See it at your dealer or write Marksman Products, Dept. G-6, P.O. Box 2983, Torrance, California 90509.

THE Model K-25 is an entirely new .25 automatic pistol that is precision machined from fine steels featuring a steel frame and slide. Magazine capacity is six rounds, weight is 8 ounces, overall length is 4-inches, height is 2 $\frac{3}{4}$ inches and it features a push button safety,



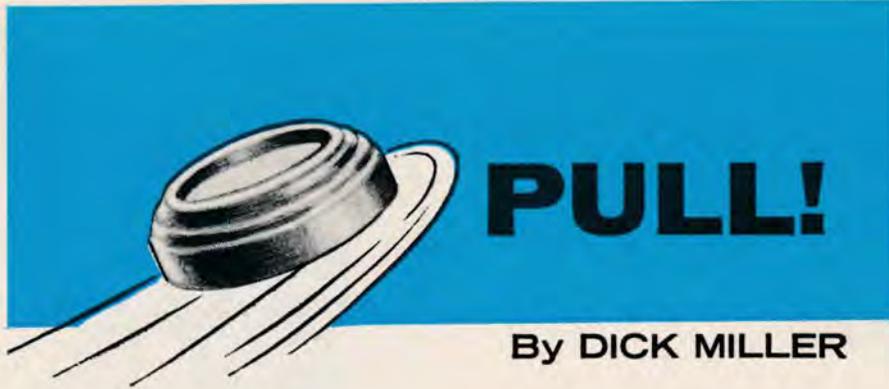
non-glare sight channel, non-slip checkered black Cyaloc grips and is finished in a high luster blue. The gun is completely made in America, is easily taken down, and is perfect for an undercover gun, home defense, etc. For more information, write Western Valley Arms Co., Dept. G-6, 524 W. Main, Alhambra, Calif. 91801.

THE NEW "Hip-Grip" pistol-handle holster eliminates the need for a holster as well as hooks on belt or pants. Said to be the most comfortable and convenient way to carry a concealed weapon. Highly recommended for plain clothesmen, detectives, bank tellers, etc. The "Hip-Grip" is essentially a modified grip that has an extended "lip" which enables the user to insert the gun in his belt. The "lip" catches on the top of the pants or belt to keep it from sliding down. Designed by a police officer and worn by many of the top notch officers in the Detroit Police Department. Only \$6.95 from Barami Corp., Dept. G-6, E. Seven Mile Road, Detroit, Michigan 48234.

PENGUIN'S "Protect-A-Cases" are made of a new tough, flexible exterior material called "Tuflex." The cases will withstand temperatures of 40 degrees below zero without cracking or breaking. Frames are anodized aircraft aluminum to prevent pitting or tarnishing. All



hardware is solid brass, nickel plated and the handles are double steel supported. Three new cases are available: Four Gun Pistol Case; Double Shotgun Case; and the Double Rifle Case. Cases are sold through Penguin Industries' dealers.



WHICH OF THE three most popular methods for obtaining the correct lead on a moving target is the best? When a Pull reader wrote and asked me to answer this question for him, it occurred to me that thousands of other skeet (and wing) shooters are bugged by the same question, and that a column on the subject would be in order.

The three most generally accepted methods for obtaining the correct lead for hitting a moving target are: 1. Starting ahead of the target, and keeping X number of feet ahead of it (X being dependent on the Speed and angle of the target). 2. Letting the target get ahead, catch it, and shoot in passing. 3. Letting the target get ahead, catch it, pass it, lead X number of feet (as in method 1) and shoot.

It goes without saying that all three of these theories have one unspoken factor in common, which is that in all three you must keep swinging. If you stop the muzzle when you pull the trigger, the inevitable result is one lost target. That is, unless you can freeze the target in flight, which takes a bit of doing in the present state of the art.

I confess that I am influenced in my choice of the best of the three methods by the ancient military admonition of "KISS" (keep it simple, stupid). It may be that I am mentally lazy, and for this reason I am inclined to favor any method which does not require the shooter to make like a computer when he attempts to hit a moving target. I am the first to admit that there are nationally and internationally famous shooters who won their fame using one of the methods other than the one I prefer. In that case, I say more power to them. I have never been one to knock a system which works for the shooters using it successfully.

Let's take a look at the three methods together, and see what you, the

reader, think.

First, method number one. This method requires first of all that the shooter predetermine the correct lead, and then to concentrate in maintaining that precise lead until he touches off the trigger (and to keep swinging the muzzle, while keeping in mind all the other factors). If the mind rebels at suddenly being asked to switch from concentrating on the correct lead to the mechanics of touching off the trigger, the muzzle stops, and the target flies on (and on, and on).

Jumping down to method number three, all that number three does in my judgement is add two more items of mental gymnastics to the process. My mind rebels at being instructed that I must first let the target get ahead, make a conscious decision to catch it, suddenly cope with a new directive and pass it, after which I must draw from the computer the correct lead and maintain that lead until I instruct my finger to pull the trigger, and remember to keep swinging. I'd rather play postoffice, or something. And, I don't think I would hit very many targets, which bugs me no end. During my forty odd years of shooting, I have read many books, and have seen many charts on clubhouse walls which give the speed in flight of various game birds, and the recommended lead at varying distances. I have also seen charts detailing the correct lead in feet or yards for each post on a skeet field.

At this point I rather sheepishly confess to a life-long ambition to meet that individual whose mental agility is so acute, that he can, in fact, digest all this information in the split second that it takes to get off a shot at a rapidly moving target. If there is such a man or woman, I would like to think that they will come forward and add warmth to my twilight years.

Can you look at a flying game bird, correctly estimate its range, recall from the chart that the required lead

at your estimated range is six feet, catch up with the bird, pass it, maintain a six foot lead, and pull the trigger while remembering to keep swinging? Or, is your mind so compartmentalized that you can shoot twenty-five shots on a skeet field remembering at each station, for both high and low house on both singles and doubles, the exact lead suggested for each target, and maintain these leads day after day, month after month, and year after year while concentrating on doing all the other things you must do to break the target?

And now, back to the basics. What is lead? Lead is the distance that the muzzle appears to be ahead of the target. Lead is not an absolute. Lead is a very relative factor. What might appear as a two-foot lead for one shooter might seem to be four feet for another shooter.

As I have confessed in past PULL columns, most of my theories on how to teach another human being how to hit a moving target derive more from my experiences in teaching fifteen-thousand or so boys, girls, men and women how to hit moving targets during my years with the old Sportmen's Service Bureau, than they do in observing equal numbers of fine trap and skeet gunners. The experienced clay target shooters have some valid points of reference.

However, put yourself in my shoes, and visualize a little twelve-year old girl who has never held a shotgun in her hands, and in a few minutes you are going to make sure she hits a fair number of targets. I quickly learned that if I told her to lead a shot three feet, I understandably got a very blank look. But, it soon dawned on me that if I told her to swing the muzzle past the target and shoot when she saw daylight. More often than not she hit the target, and very often hit all of them.

Which leads me to the conclusion the reader has been breathlessly awaiting since the opening line of this month's column. In my judgement, Method Number Two is the easiest, most reliable, and most enjoyable method for hitting a moving target. Why do I favor method number two? The principal reason that I favor number two is not found in any book or treatise on shooting I have read, and I have read a lot of them. It seems to me that both clay target and wing shooters become overly hooked on precise measure of lead, target speed, and distances to the exclusion of what is inherent in most humans, a God-given faculty for hand and eye coordination. Certainly I will concede that as in the case of most inherent faculties, some are more

blessed than others.

Many times I have heard a skeet gunner walk off a post, and say that "I lead that target three feet", giving the impression that he exerted his will and mental faculties to lead this target by a precise measure of three feet. What I really think happened is that amazing mind and terribly complicated body with which he was endowed at birth joined forces to intercept the flying target at a lead of approximately three feet, or so it seemed to him.

This is not an attempt to debunk some of the mystique surrounding advice on the correct lead as measured in precise feet, yards, or inches. Certainly every shooter can profit by getting a good mental picture of the right lead, by developing good shooting habits, such as a smooth swing, and by not handicapping himself by starting the swing too late or too far back toward the house.

But, in my own experience, and the observed experience of thousands of others, if the shooter does not get too hooked on formulae, and swings on past the target, slapping the trigger as he goes by, and keeping that old gun muzzle moving at the same speed, a very satisfying number of moving targets will be hit.

Most of you were born with faculties which work very well toward coordinating hand and eye, and those faculties will do a very creditable job for you if you don't hamstring them with too much extraneous input.

The best way I know of to implement method two and put it to work for you is to get enough practice so that you get the confidence of knowing you have the right mental picture of each target, and that you keep on doing what you were doing when you broke that same target the last time you saw that shot. Your good old computer-type mind will do that for you without much prodding on your part. It was designed to function in that fashion, and will, if you don't try to take over in too great a degree.

Said another way, you can educate your reflexes, but you will have difficulty if you insist on throwing in too much sophistication. So, throw away the charts and diagrams, the computer-type calculations, swing past the target, see daylight, pull the trigger, trust your reflexes, and most importantly of all, have fun.

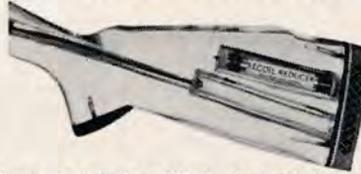
That's what wing shooting is all about. Why not keep it that way? Of course, if you prefer the other methods, and they work for you, why change? The object is to hit the target, and have fun. To each his own. Me, I'll take the easy, and fun, way.

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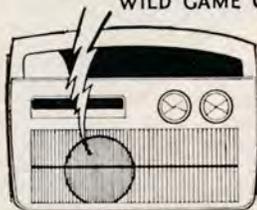
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TEST REPORT: LAURONA OVER-UNDER SHOTGUN

(Continued from page 27)

The checkering is in a skip-line pattern that gives flat-topped squares and oblongs in addition to the fine, pointed "diamonds" usually associated with hand checkering. Although of a somewhat different design, the checkering filled both requirements of good checkering by providing a non-slip gripping surface and adding to the gun's appearance.

The engraving was of far better than average quality for an under \$200 double-barreled gun. Engraved surfaces included the top and sides of the box-lock action, the top lever, and the underside of the trigger guard. Light engraving also appears on the underside of the action and on the take-down lever.

The ventilated rib also adds to the gun's appearance and aids fast alignment. However, the rib on my sample proved to be curved somewhat to the left. This is not a serious flaw, as the amount of distortion is slight and was apparent only on careful examination. Too, I have inspected other Laurona Model 67's at a local sporting goods store without finding a similar rib misalignment, so this flaw is apparently *not* characteristic of Laurona workmanship.

The gun has plain extractors and an automatic safety, with a non-auto safety also available on special order. The triggers were fairly crisp, with the front one requiring 6½ pounds to break, and the rear one letting go at 7½ pounds.

For a field gun, the Laurona has a fairly straight stock—dropping at the comb 1½ inches, and at the heel only about 2¼ inches. This type of stocking is more common among trap guns and causes me, at least, to see a little more rib than I like in a gun intended for field use. Thinner-faced types will undoubtedly find this stock more to their liking. Length of pull is 13¼ inches (rear trigger) and 14¼ inches to the front trigger. A rubber recoil pad is standard equipment.

Standard chokes in the 28-inch barrels are modified and full, although other combinations can be ordered. True to form for most Spanish-made guns I have used, the chokes are actually considerably tighter than their

markings indicate. With Remington factory loads (3¾, 1¼, 6's), the top barrel puts 230 6's into a 30-inch circle at 40 yards, giving an 82 percent pattern. And the lower "modified" barrel prints 72 percent patterns with the same load! In my book, this gun is choked "full" and "damned full." (However, without the plastic shot protectors found in most U. S. factory loads, the gun would undoubtedly throw wider patterns.)

Incidentally, although the Laurona is chambered only for 2¾-inch shells, its action is more rugged than many I have seen that were chambered for the 3-inch powerhouses. No less than four massive locking lugs are used to hold the barrel group and frame together, and the entire action is of a rugged, no-nonsense design.

Of course, the final test of any scattergun is its performance in the field. And in that department, the Laurona came through with flying colors.

On a hunt for western sage grouse, the good-looking over-under did its job well. After missing a couple of "chickens" through not keeping my head down far enough on the ultra-straight stock, I finally adjusted to the gun and started bagging birds. I *did* have to remember to let close-flushing birds get some distance away before shooting to avoid spoiling meat, but when the grouse began flushing wild, those tight patterns came in handy.

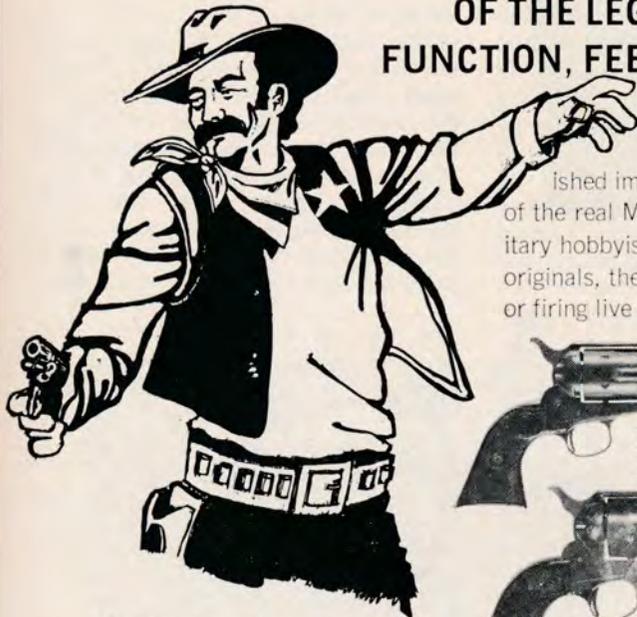
This close-choked gun is a natural for waterfowl. I've used it in the blind on some bluebird days, and it really reaches out for those birds that are "just passing through." Of course, even with this gun those 50-plus-yard ducks are still safely out of range.

In my opinion, this gun would make a handsome addition to any gun rack. It is a good-looking arm with good handling characteristics (in spite of what I would call a too-straight stock), and it offers a truly unique trigger system that is quicker and handier to use than any other I have tried. At a "fin" less than \$200, it has to be one of the best shotgunning buys around.



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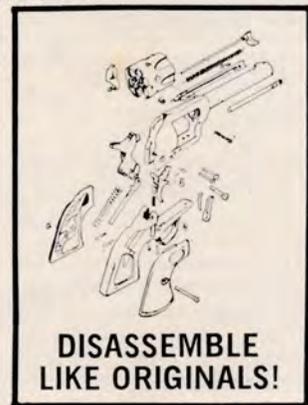


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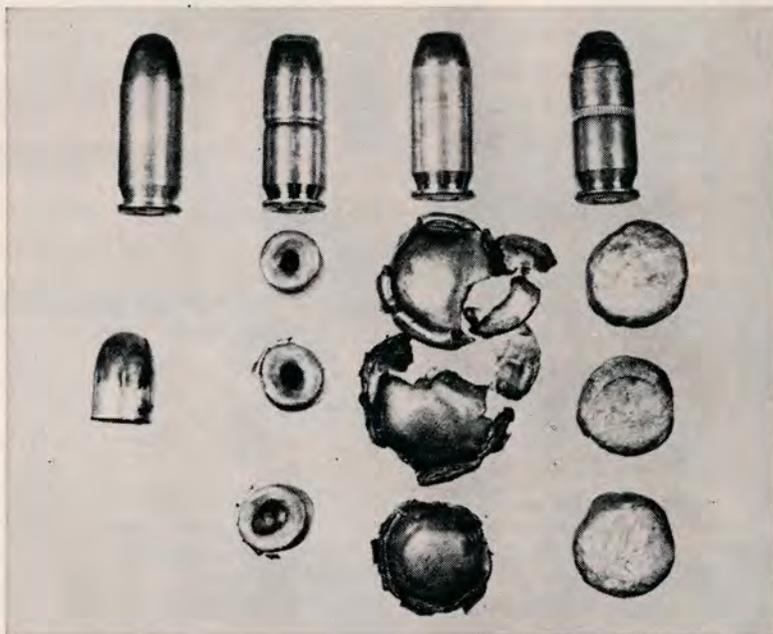
THE .45 AUTO: OPTIONS GALORE

(Continued from page 36)

backstrap is depressed, the crank pivots, its roller riding up the original sear spring, and its other end compresses the mainspring and draws the hammer to full-cock by pulling downward on the hammer strut. A most ingenious arrangement that seems little likely to get out of order. Evidence that it is durable and reliable is found in the one unit we tested which has already fired nearly 7000 rounds with-

out malfunction.

This unit is easily installed in any unaltered Colt-production Government Model, M1911, M1911A1, or Commander in .45, 9mm, or .38 caliber. It will also fit some Spanish Llama (Gabilondo) copies and the Argentine-made Modelo 1927 .45. Some handfitting may be required on the Llama pistols. It cannot be fitted to Star, Ballester-Molina or other modi-



At the right in the photo above are the results that may be obtained with better ammunition compared to the military standard bullet on the left. Expanding on this, bullet loads and recovered bullets are, left to right: Norma 230-grain JSP; Super Vel 190-grain JHP; 185-grain Hornady bullet loaded to slightly over 1,000 feet per second. Ammunition alone can be one of the finest assets to a pistol that is not highly tuned and worked.

ACCESSORY MANUFACTURERS

Double-Ace DA conversion: Caraville Arms, Box 377, 1000 Oaks, California 91360. Tight Bushings: Pachmayr Gun Works, 1200 S. Grand, Los Angeles, California, 90015; Micro Sight Company, 242 Harbor Blvd., Belmont, Calif. 94002. Group Gripper: Dan Dwyer, 915 W. Washington, San Diego, Calif., 92103. Trigger Shoe: Flaig's, Millvale, Pennsylvania; Pacific Gun Sight Company, Box 4495, Lincoln, Nebraska, 68504. Long Links: Colts, Hartford, Connecticut. Speed-Cock Lever: Allen Association, 744 Limekiln Pike, Philadelphia, Pa. 19138. Match Barrels/Bushings: Dan Dwyer, 915 Washington, San Diego, Calif., 92103; Clerke Technicorps, 2040 Broadway, Santa Monica, California, 90404. Recoil Buffer: Alton Dinan, Box 6674, Canaan, Conn., 06018. Sights: Micro Sight Co., 242 Harbor Blvd., Belmont, Calif., 94002; Sports-

mans Equip. Corp., 415 W. Washington, San Diego, Calif. 92103; Miniature Machine Co., 212 E. Spruce St., Deming, New Mexico, 88030; Bo-Mar, Box 168, Carthage, Texas 75633; Seventrees, 315 W. 39th Street, New York, New York, 10018; Receiver, Steel: Potomac Arms, Box 35, 200 St. Strand, Alexandria, Va. Receiver, Aluminum: SARCO, Inc., 192 Central Ave., Stirling, N.J., 07980; A & R Sales Company, South El Monte, California. Special Barrels: Clerke Technicorps, 2040 Broadway, Santa Monica, Calif. 90404. Ambidextrous Safety: Armand Swensen, 3223 W. 145th, Gardena, Calif., 90249. Magazines: Triple K, Mfg., 568 Sixth Avenue, San Diego, Calif., 92101. Nearly all the above items may be obtained from a single source: Gil Hebard Guns, Box 1, Knoxville, Illinois.

fied copies of the big Colt.

Any astute gun owner familiar with the big Colt can install this unit easily enough if he but follows Raville's instructions carefully and literally.

Some people never get the hang of quickly cocking the .45 Auto on the draw; yet insist on carrying it with the hammer down on a loaded chamber. A most interesting device for overcoming this situation is the "Speed-Cock" conversion kit sold by Allen Associates. This unit replaces the original safety with a cocking lever. This lever combines with a new grip safety and hammer strut to bring the hammer to full-cock when pressed downward. Quite a bit of effort is required, but with a bit of practice, one becomes proficient at it. Though a bit more trouble to fit, it is the most economical of any of the cocking aids that have been offered to date.

Some people complain about ease of operation of the safety and some southpaws about its purely right-handed location. Armand Swensen, as well as a few other 'smiths, offers an ambidextrous safety which consists of a second thumbpiece attached to the original on the right side of the gun. The shallow thumbpiece of the safety is greatly improved if extended outward and forward by welding. Swensen furnishes such a safety, as have others.

Some .45 fanciers feel the slide stop is difficult to reach with the shooting hand without shifting one's grip—especially when engaged in rapid reloading in a combat situation. This is easily corrected by extending the slide stop thumbpiece rearward (by welding or silver-soldering on an extension) and making a clearance cut for it in the left stock plate. If available, a Norwegian M1914 .45 slide stop with its longer reach serves admirably for this purpose. Any good gunsmith can build up the original, though, and extend it to suit the individual.

Until recently, frames were the one part that could not be purchased without first turning the original in to the factory. That effectively blocked assembling a gun from military surplus parts. Things have changed now. Potomac Arms offers a fine #4140 steel frame cast and machined to standard dimensions throughout. I've assembled two satisfactory guns on such frames with military parts. More recently an aluminum alloy frame has become available from SARCO, Inc. This unit is cast and machined from the same alloy as the Colt Commander frame and the sample we tested performs quite well. It will accept all military parts, but differs from others in that the sides of the magazine well

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are cut out only slightly.

As indicated, we've tested both of the above-mentioned frames and they work very well. The steel frame is the most costly (\$39.50) while the aluminum version runs about ten bucks less. If you want a full-weight Government Model, choose steel—if a lightweight version like the original Colt Commander, choose aluminum.

Incidentally, these frames are not limited to .45 caliber. You need only change the ejector to assemble in .38 Super or 9mm; and the .22 conversion unit may also be fitted.

The standard .45 holds seven big, fat cartridges in its magazine; one more in the chamber for a total of eight. Some 'smiths have offered magazines altered to take eight rounds without any increase in length.

Really big magazines are readily available being currently manufactured by Triple K Manufacturing Co. for 10, 15, 20, 25, and 40 rounds. The 10-shot box isn't too bad, protruding only about 1½" from the gun butt. The others are too bulky for anything except casual use. The 40-shot box extends nearly two feet below the gun butt—almost enough to make it useful as a monopod shooting rest.

Probably the greatest *real* improvement in the .45's performance has nothing at all to do with the gun. After watching ammunition develop for a number of years, we've finally gotten a factory-production .45 ACP load that doubles this caliber's effectiveness on animal targets. Hollow-point, 190-grain bullet loads are now available expand to nearly double original diameter at normal handgun combat ranges. Tops in this area is the Super Vel 190-grain JHP (jacketed hollow-point) load at 1060 fps, trailed by the Norma 230-grain with much less expansion. A box of the former load will do more to improve your .45 as a defense gun than all the other items discussed in these pages.

From time to time some rather unlawful items have been offered openly for the .45 Auto. Silencers, of course, are taboo in themselves.

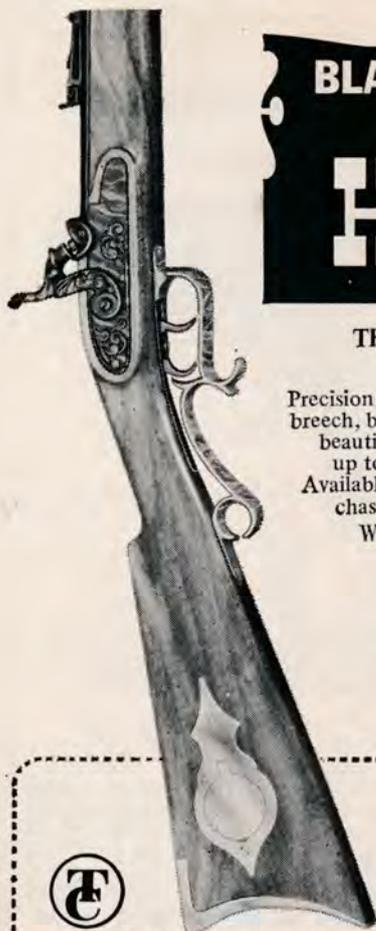
A few years back at least one or two gentlemen (?) offered mainspring housings machined to accept the attachment lug of the Canadian Browning H-P wood holster-stock. A simple machining job, it made it possible to attach the Browning stock, creating an immediately unlawful gun. Today, we know none of you .45 aficionados out

there would actually connect stock to pistol—but less than that places you in violation of Federal Law. Should you possess one of those altered mainspring housings in one of your guns, and also possess a Browning holster-stock, you are in violation. You need not assemble gun to stock—in fact, even removing the attachment lug from the stock and destroying it or throwing it away doesn't get you off the hook. So, if you've one of those altered mainspring housings, I'd suggest tossing it off a high bridge into deep water before you ever go near a holster stock. Incidentally, some were cut also to accept the Mauser stock.

Then, there have been full-automatic conversions of the .45 offered discreetly in the past. Shun them or parts thereof like a plague.

But that's not all. All manner of gadgetry—both good and lousy—have been offered for the Government .45. They include compensators and muzzle brakes; sight ribs and ribbed slides; short, long, and medium-length triggers; modified grip safeties and housings; reshaped hammers; balance weights; conversions for wildcat cartridges (.38/45; .30/45; etc.); grip safety clips; belt clips; special springs and internal parts; and on and on into the night.

If you are getting the impression the U.S. M1911A1 is probably the most-altered and most-"accessorized" handgun in the world, you're about right. Frankly, I don't know of any other pistol for which so many gadgets, conversions, and accessories have been developed. If you want to shop around, you can probably find something or someone who can make the big gun do almost anything you want.



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COLOR CASE HARDENING: NO JOB FOR THE GUN TINKERER

(Continued from page 39)

uniformly colored surface which does not become hard after treatment. With these methods, an uneven color would suggest an inferior job. With color case hardening, a uniform blue color would be unusual, if not impossible, and I think less attractive.

Some gun books favor a method of pack carburizing instead of cyanide matting to get a surface which is file hard and also attractively colored. With the pack carburizing method, a steel container, large enough to hold the polished gun part to be colored, plus a generous amount of carburizing compound is prepared. After packing the gun part and compound in the steel container, they are heated red-hot as a unit. After about three hours, the gun part is quickly withdrawn and quenched in water. If properly done, the gun part should now have a hard surface which is attractively colored.

The books offering the more detailed descriptions of this method are generally substantiated by others which are less explicit. The parts packed in the carburizing compound must be heated to a temperature which is critical if a colored surface is to be produced. Typically, the temperature is described as a "dark cherry red." A somewhat higher temperature will still produce a hard surface but without the proper color, and a lower temperature will not harden the part. The quenching solution is usually described as cool still water or cool water with compressed air bubbling through it. The most important aspect of this method is the carburizing compound, which could be comprised of charred bone, wood charcoal, charred leather and granulated bone with or without powdered cyanide.

In order to reduce the variables and better define the vague limits generally suggested, I performed a number of tests. The temperature for these tests was controlled within a range of 1350°F to 1450°F which is about the "dark cherry red" heat range. Although I was able to purchase the necessary bone charcoal, wood charcoal, and bone meal, unfortunately I had to make my own charred leather. The production of leather charcoal can be very interesting. You can

imagine the odor and smoke evolved when baking a couple pounds of leather. From the listed carburizing materials, a variety of compounds were produced for testing with polished pieces of mild steel. The steel pieces were to simulate gun components and they were quenched in cool aerated water.

The results of these tests were consistently negative. The case hardened color produced was either non-existent or too poor to risk trying with an actual gun component of any value. One trend in the results was observed. Carburizing compounds containing potassium cyanide (KCN) seemed to produce some color. As the cyanide content of the carburizing compound increased, the color seemed to improve. This effect was unfortunate because the powdered cyanide is extremely lethal. The tests were stopped without increasing the cyanide content beyond very small concentrations because working with cyanide is hazardous. Without cyanide this color case hardening technique was unsuccessful and with cyanide the results were still too poor to justify the expense of setting up the heating and ventilation equipment necessary for safe and efficient use of potassium cyanide.

Although pack carburizing without potassium cyanide did not give case hardened colors, it did leave the surface file hard. However, surface hardening by this method is still too cumbersome to be really practical. To produce a file hard surface on iron or steel on a do-it-yourself basis, it is easier to use a commercial, non-toxic carburizing compound. A product called Kasenit Surface Hardening Compound worked for me. When used as directed, Kasenit #1 easily gave a file hard surface on mild steel with only an oxygen-acetylene torch required as special equipment. Although case hardening with Kasenit #1 is possible on a do-it-yourself basis, color case hardening is not.

The good results that I obtained with cyanide mottling and the poor results with the pack carburizing method were reasonably consistent and reproducible. However this is no guarantee that exactly the same re-

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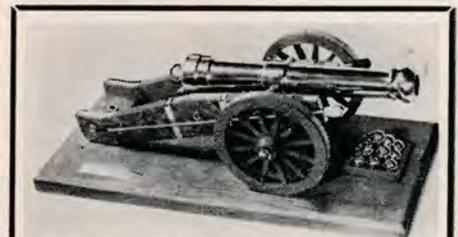


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sults can be produced by someone else using similar equipment and materials. Since special equipment is required for both methods, color case hardening is only practical for the professional heat treatment shops.

Because many aspects of color case hardening remain untested I consider this article to be only an introduction. However a more detailed description would be unnecessary except for a few readers who might have heat treating experience and equipment. If someone has access to the necessary equipment, they definitely should not attempt to color case harden on the basis of my article alone. Anyone attempting to produce case hardened colors by either the cyanide mottling method or pack carburizing should first consult books on heat treatment

and gunsmithing before proceeding carefully, and at their own risk.

Apparently there is no way to color case harden safely and easily. This does not disappoint me. I think the unique appearance of a color case hardened surface would be less appealing if it could be produced by swabbing it on from a bottle.

Author's Note:

Cyanide is poisonous and the danger of working with cyanide cannot be over emphasized. Unfortunately, I found that cyanide was necessary for color case hardening. For this reason, the reader must assume all risk and liability when using any of the information that I have given.—D.A.S.



The Guns Magazine

Panel of Experts

1. Each question should be sent directly to the panel member best suited to solve your problem. Mail questions directly to the expert at the address shown below.
2. Each question—only one question per letter, please—must be accompanied by a self-addressed stamped envelope and \$1.00.
3. You will receive the answer to your question directly from the expert. Our panel will select the most interesting questions for publication in this column, but you don't have to wait for the magazine to get your answer.
4. Letters with questions which do not have \$1.00 will be disregarded; those without a self-addressed envelope will be answered in the magazine, and not directly.

We have enlarged the staff of our Panel of Experts to give you the best possible service on your questions. Remember, write directly to the expert at the address below—do not send questions to GUNS Magazine—and be sure to include the \$1.00 and the self addressed envelope.

Robert Mandel—Antique Arms

P.O. Box 499, Wilmette, Ill. 60091

Shelley Braverman—Modern Arms; Forensic ballistics

Dept. Q, Athens, New York 12015

William Schumaker—Gunsmithing

208 W. Fifth, Dept. Q, Colville, Washington 99114

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Box 286, Bountiful, Utah 84010

Maj. George C. Nonte—Handloading

P.O. Box 3302, Dept. Q, Peoria, Illinois 61614

George E. Virgines—Fast Draw

P.O. Box 2014, Northlake, Illinois 60614

Maj. R. O. Ackerman—Black Powder Shooting

9627 Arvada Ave. NE, Dept. Q, Albuquerque, New Mexico 87112

Dick Milner—Trap & Skeet

Casa Correo Sta., P.O. Box 21276, Dept. Q, Concord, Calif. 95421

1911 Winchester

I have a Model 1911 Winchester auto-loading shotgun and am unable to remove the fore-end cap. The gun has a fore-end cap similar to the Browning auto-loader, however, this cap removes the complete magazine from the receiver. The barrel, maga-

zine and fore-end are still intact. Please advise how the fore-end can be removed from the magazine.

Jack J. Watts

Sterling, Illinois

Either there is something you didn't explain, or something has escaped my understanding of the Model 11. I even

re-checked a M-11 I happened to have in the shop at the time, and I can still see no reason the forestock and barrel won't move forward and off the receiver. If the complete magazine turns out, then there is nothing I can see that should hold the wooden forestock in place.

The magazine tube itself screws into the receiver. It's thread is very fine and the tube is kept from turning, once it is in place, by a small set screw, the head of which shows on the lower forward part of the right side of the receiver. If your magazine tube is completely unscrewing then either the set screw is not holding, or the tube is broken, (separated). Apparently the magazine cap nut is frozen onto the magazine. It would be advisable to take it to a gunsmith rather than risk the chances of applying damaging pressures.—W.S.

Sporter Arisaka

I recently acquired a Japanese Arisaka in 7.7mm. I intend to sporterize this gun and would like to know if you consider this gun heavy enough for moose and black bear. Could handloading improve ballistic characteristics?

Donald Barry
Dunnville, Ontario

I'll have to give the caliber an unqualified "yes" on black bear and a maybe on moose. One animal averages maybe 175 pounds while the other goes closer to 750 pounds or even over 1,000.

The 7.7 Arisaka has about the same ballistics as the .303 British and not greatly different than the .300 savage. With neck shots placed close up to the head or lung shots with good soft nose bullets of fairly heavy weight, the 7.7, can and has put down many moose. But with such as shoulder shots, it's marginal and is definitely a cartridge I'd not want to use on moose if I could get hold of something with more "umph." Norma still offers good ammo in several bullet weights for the 7.7, and Norma is fine ammo. I believe you can get it in either 180 or 215 grain bullet weights and I'd definitely recommend the latter for the use you suggest.—L.B.

Garden Hose?

I am writing in hopes that you can settle a long standing argument. Some friends and fellow skeet shooters I regularly shoot with contend the follow-through of the barrel, when shooting skeet, is important not only to keep you on the bird, but also that this lateral movement "strings" the shot out on a parallel or following course with the bird. Thus, if your pull was a little early, this motion can

trail the shot out, perhaps letting you catch-up with the target.

I maintain that it is physically impossible to move the barrel enough to have any such effect during the milli-second it takes for the shot to travel from chamber to choke. I firmly contend this theory may work with squirt guns or garden hoses, but not with projectiles moving at 1200 fps. I am sure your opinion would settle the matter.

Mark Favre
Tacoma, Wash.

I'll have to go along with you and contradict your friends in the matter of follow through having any appreciable effect on shot string performance. Nothing the shooter could do would give him the "garden hose" effect on a shot string, because, as you point out, the milli-seconds involved in getting the shot string out the muzzle simply do not leave enough time for a "wiping" effect. Your friend's theories sound good, but "they just ain't true".—D.M.

M-1 Carbine Mount

Do you recommend the S&K Insta-Mount for a scope on the M-1 Carbine, or can you recommend other mounts? There is a choice of steel or alloy rings for this mount, which would be better?

Herb Goodman
Colin, Iowa

While the effective accuracy and distance of the M-1 carbine does not make it a target or long range rifle, many of us can shoot any gun better with a scope. The Insta-mount is the best of the mounts that I have seen for the M-1 Carbine and I like it in steel rather than alloy rings. It is only that the steel will take more abuse and stay on target better. Usually the M-1 is subject to rougher use than other calibers.—L.B.

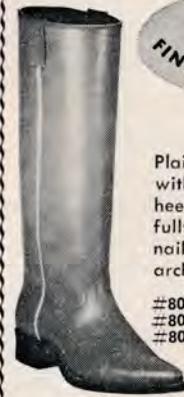
Russian Sporter?

I recently acquired a Russian 7.62 mm carbine that is stamped 1944 and it is in very good condition. It seems pretty accurate and after checking the ballistic tables, I found that it's power is comparable to the .308. Would it be worth-while to up-date it with a sporter stock and scope? It would need to be tapped and drilled for the mounts, would this be safe?

Townsend Clackson
Columbia, S. C.

Personal opinions vary on these military rifles. Personally, I do not think the 7.62 Russian is worth a new stock, or a scope. Just off-hand I can't even think of anyone who makes a scope mount for it. Since the Norma Company makes good soft point hunting ammunition in that caliber, I

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would just use it for a knock-around rifle. However, proper drilling for a scope would not injure it.—W.S.

'92 Firing Pin

I have a Winchester Model 92 carbine in .32 W.C.F. The gun is in good condition, with one exception: the firing pin is broken. Is it possible to get a replacement firing pin from the factory or could the gun be sent to them for repairs? Also, what would be the value of this gun.

Richard Bieber
Rocky Mount, N. C.

Model 1892 Winchester firing pins have been out of production by the company for many years. I think perhaps Christy Gun Works, 875 57th St., Sacramento, California 95819, can either supply the pin or advise you as to a possible source.

You might also try Ward Koozer, Box 18, Waterville, Oregon 97489. Ward converts a lot of Model 92 Winchester, and I'm quite sure he has some answer to the broken firing pin. In the meantime do not discard your broken pin. As for value of the Model 1892, this is a tough one. It is worth whatever you could get out of it, from someone who wants that model. Depending on its condition, average

1892's can run anywhere from \$25 to \$50 or \$65. More than this, would in my opinion, depend strictly upon your desire to have one, and their availability.—W.S.

Palmer Carbine

I have a carbine which I haven't been able to identify. It has a rifled barrel 23 $\frac{3}{8}$ -inches long, the bolt has a threaded rear part for locking in the barrel, it is rim fire, and the lock is marked, "U.S.E.G. Lamson & Co. Windsor Vt. 1865". The barrel is marked, "Wm. Palmer Patent Dec. 22, 1863". The caliber is about .50. Can you tell me what it is and the value?

Robert Diegel
Phila., Pa.

Your carbine is the Palmer single-shot Carbine, caliber .52. Just a thousand were ordered by the government during the civil war but were completed in 1865 and it is doubtful if any saw action. If in exceptionally fine condition, it could have a high collector's value of at least \$100 to \$200.—R.N.M.

Curtis & Harvey

I am trying to locate a source of Curtis & Harvey black powder. I wonder if you might have any information on this line? Also, can you tell

me the address of the "Ampco" people who manufacture the Berillium copper gun nipples?

Frederick G. Norton
N. Hampton, N. H.

The English-made Curtis & Harvey black powder is usually stocked by Keeler's Trading Post, R. R. 4, Eaton Rapids, Mich. 48827. It can't be shipped, you must pick it up at the shop, but maybe you know someone who is going over that way.

None of my directories list the maker of "Ampco" nipples, but Roy Keeler handles them. I'm sure he could give you the maker's name.—R.O.A.

"Shiloh" Holster

Can you tell me anything about the belt and holster used by John Drury from the television series "Men From Shiloh." It appears to be very compact and looks to have a metal lining in the shank or drop-loop.

Larry Peters
Arab, Alabama

The type of belt and holster worn by James Drury of the "Men From Shiloh" TV series, appears to be a fast draw rig and may have been made by Alfonso or Ojala. Write to either of the companies for more information. Alfonso's Holsters & Gun Shop, 4850 Lankershim Blvd., No. Hollywood, Calif. 91602. Arvo Ojala Holsters, 4209 Lankershim Blvd., No. Hollywood, Calif. 91602.—G.E.V.

.44 Mag. vs. .30-30

What is your opinion of the .44 Magnum versus the .30-30? I intend to buy the Winchester Model 94 and don't really know if the .44 is more effective and powerful.

J. M. Francisco
Whittier, Calif.

Your question is best answered by saying that I'd never want to face a big bear with only a .44 magnum, but that I would far rather have a .30-30 in my hands.

The muzzle energy of the .44 magnum is around 1150 FPE and the velocity falls off fast as does the energy. It requires 1,000 FPE at point of impact to make any bullet of sufficient force and killing power for even deer or antelope. That puts the .44 magnum in a marginal area even on fairly close up shots.

The .30-30 has a far flatter shooting, longer distance cartridge with energy figures varying from 1750 FPE to 1950 FPE. The variation is due to bullet weight and loading. Where the .44 magnum is down to about 700 FPE at 100 yards the .30-30 is still at about 1,000 FPE at 200 yards. It takes no mathematician to see the difference between the two.—L.B.

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GUNS AND THE LAW: NON-LETHAL WEAPONRY

(Continued from page 33)

the seventies will see a significant new non-lethal weaponry advance through the combined efforts of the Federal Government and those of the private sector.

THE TWO HANDED SPECIAL ISSUE RIOT BATON

Men in direct eye-ball-to-eye-ball confrontation with rioters should be armed with a weapon that they can freely use to thrust, jab, butt smash, restrain or shove. The long riot baton has all of these desirable characteristics. The degrees of force in its scope are also varied enough to enable men in the rioter contact line to maintain the integrity of their formations. Since 1964, U.S. law enforcement has inventoried and trained with this weapon. At present, most major police forces are equipped with the Kohaut 36" two handed model. (John C. Kohaut Co., Inc., 15 Meeker St., West Orange, N.W. 07052) It is not used to strike overhead blows that can be fatal, but is employed in much the same manner as the rifle and bayonet in military training. Short one handed police batons such as used for routine duty are not as suitable for close quarter riot operations where formations, squad, platoon, etc., are employed. Under tension and mob contact, men armed only with the shorter baton have a tendency to break ranks, engaging rioters in individual combat, beating the rioters over the head with possible lethal results. This tendency also destroys the value of tactical formations so necessary when police are heavily outnumbered. It also furnishes much of the basis for adverse press and T.V. pictures and publicity. The long handled, special issue riot baton is favored by most police agencies. It is a low cost tactically valuable weapon when used properly in riot actions. It should serve the Guard equally well.

THE SHOK BATON

This is one of the most effective of all close contact individual police weapons. The Shok Baton (Shok Baton Company, 440 W. Nixon St., Savage, Minnesota 55378) is powered by a number of C size flashlight cells. It produces a harmless but painful

shock when the contact end, or middle shock unit, touches the skin. It is also effective through light summer clothing. The high voltage, low amperage charge produces a skin surface, only, electric shock. No electric current passes through the body. This truly non-lethal weapon is available in various lengths and the unit can also be used in the same manner as the conventional wooden baton, increasing its tactical flexibility.

The Shok Baton has been one of the least understood and most maligned weapons in the police arsenal. During the early days of the civil rights movement, it was pilloried in the press and public mind and called a "cattle prod." Public resistance to police employment followed. Times and public attitudes have now changed and it has become an increasingly publically acceptable weapon. The Shok Baton originated in an early military development effort to replace the rifle and bayonet in certain line contact riot situations. Currently, it is being used in quantity abroad. U.S. law enforcement is once again giving it consideration as a basic riot weapon. Its usefulness in sitdown, passive resistance and campus riot situations has yet to be fully experienced. The harmless shock delivered has a great psychological as well as practical deterrent effect. No known cases of it inflicting anything other than temporary discomfort have been recorded. In crowd-riot dispersal situations it is a true, non-lethal weapon.

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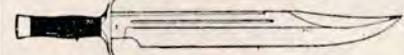
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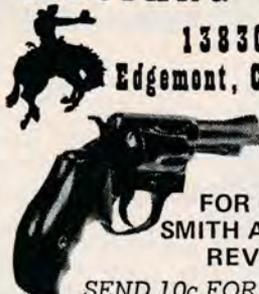
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in handling unruly prisoners and can be more freely used against women, children, elderly persons and like elements often found in the mob front ranks in the more organized type of rioter action. It's value as a general police weapon and when used against small groups of looters, rioters and individuals committing violent acts in the midst of a riot action has been demonstrated in hundreds of riot inci-

dents. Like all successful police weapons, the Chemical Mace® has been subjected in the past to attack from the press, and groups whose purpose it has frustrated, but it is here to stay as an acceptable, non-lethal police weapon. (General Ordnance Equipment Corporation, P.O. Box 11211, Freeport Rd., Pittsburgh, Pa. 15238).
 (To Be Continued)

**ASKINS DISCUSSES
 SHORTCUTS TO MARKSMANSHIP**

(Continued from page 31)

which can be made.

I am a pistol shooter, a former national champion. I used to say that it took two years of constant practice just to learn how to squeeze the handgun trigger properly. Suppose we can develop a system where the fledgling gunner can touch off the trigger in a third of that time. Think what an inducement that would be for more hopefuls to take up shooting. The time involved to become a really skilled marksman discourages many potential shooters. The idea that literally years must be devoted to the sport before you are really a good shot is a fearful stumbling to the recruitment of tyros to the ranks.

The Army, directly after World War II, realized that its marksmanship training methods were pretty obsolete. Under the press of the national emergency the old courses of training had been found altogether too slow. These were written during peace time and depended on the soldier going to the firing range once annually for a period of 5 weeks. His shooting was first preceded by a long course of sprouts which consisted of making sighting triangles, drill on sight changes, a plentitude of bolt manipulation, dry-fire practice, position drill and coaching. When finally he was permitted to actually do some shooting this was approached on a deliberate basis for there was more time than ammo available. When the range session was wrapped up he went back to garrison and did not fire again until the following year. In time of war this was speeded up and the results were a poor combat marksman.

In considering the revamping of the marksmanship training, the Army wanted, as a paramount gain, a sys-

tem whereby the individual could be made a practical shooter within a minimum length of time. Wartime needs had dictated the necessity of this. Among the first things written into the new shooting program was an elimination of known distance firing. Secondly, the bullseye target went by the board. Thirdly, the recruit marksmen were given a taste of actual firing during their first sessions under the new schedule. The firing range was an innovation, too. It was made so that the targets, all in the shape of man-sized silhouettes, dropped when struck by a bullet. This added realism and encouraged interest on the part of the shooter.

These steps by the Army in the improvement of its shooting courses come under the heading of marksmanship shortcuts. These innovations tend to speed up the learning process and this is what we need. Not necessarily to make the shooter a better combat soldier, but more to encourage the newcomer to the game so that he develops more rapidly and thus we sustain his interest in our game.

Along with its overhaul of the shooting program, the Army undertook other changes which was earnestly hoped would improve the marksmanship of its people. One of these was the development of a duplex bullet. That is two bullets were stuffed into each cartridge. By dubbing off the bases on the bullets the two slugs were caused to separate once free of the bore. The bullets traveled down to combat distances in a pattern close enough to hit a man. This was a sort of left-handed way to improve the skill of the soldier-user. If he could not be trained in the time available to be a good shot then he would be given a round which would

make up for his lack of skill.

Along these same lines the Army, still trying to make up for the mediocre display of the average soldier, went to work on a rifle which was dubbed the SPIW. This was a radical departure from conventional firearms. It was a self-loading weapon which fired tiny arrows in clusters. These were fired in controlled bursts of shots. With one pressure of the trigger the firer could turn loose a 3-shot burst. The tiny arrows, called fletchettes, were fired out of a smoothbored barrel and once free of the muzzle tended to separate and go down to the target in clusters. The round held from 8 to 12 fletchettes, depending on which experimental cartridge was tried. Each tiny arrow weighed but 8 grains. The SPIW has never developed beyond the prototype stage. It now appears to be dead. It, again, was an acknowledgement that the average shooter is a poor marksman. The SPIW would not only have shortened his learning period but would have provided him with an increased ability to hit the target, regardless of the accelerated training grind.

The SPIW was thought to be a means to an end. It does nothing to furbish up our marksmanship training methods. It simply provides an assist, a sort of accessory after the fact. What we are driving at here is new ideas, original thinking and solid theory to alter our approach to the shooting game. There are literally scores of adjuncts that have, in recent years, contributed to our skill at the shooting sport. Such things as scope sights, better stocks, improved barrels, modernized rifle actions, triggers like the Canjar and better engineered bullets have all contributed to better shooting. But this is not the point we make here. Our thesis is that the approach to the purely mechanical problems of gun pointing needs to be overhauled. We must find better and faster methods to teach the beginners. To bring them along so that they become skillful shooters in half the time—or better still, a third of the time—than is required under our present practices.

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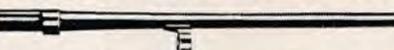


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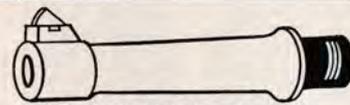


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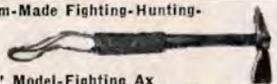
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In the kneeling position we have always followed a low body silhouette with the spine bowed and the shooter's figure as low to the ground as he could get it. Those who found it possible turned the right ankle over and sat on it. Anderson does not do this at all. He sits on the right heel, keeps his spine erect, and his position is a high one. His scores at this difficult stage are mute testimony that he knows what he is doing.

In the prone, we have long adopted a position which sees the body turned at 30 degrees to the target, the legs widespread, the toes turned outward. In the Anderson pose the body lies almost in prolongation with the target, the right leg drawn up slightly, the legs more or less together, the feet resting on the toes. The body is rolled slightly to the left and the appearance of the shooter is slightly ridiculous. But it produces results. Spectacular results if you will give brief study to the scores of Anderson, the Soviets, and the other leaders in the International shooting tournaments.

These contributions of our blazing young champion are the kind of thing we need to brighten our marksmanship picture. His findings are solidly backed by the brilliant shooting which he consistently maintains. Our training, so far as it concerns the 300-meter free rifle game, should promptly reflect his methods. That is the way we shall make progress in our efforts to better our training.

Here lately, the cops have given up bullseye targets and the conventional shooting round as followed in matches. Instead, they fire on silhouette targets, in short time limits, and with either hand. The new course of fire is better training for the law

enforcement man. This is progress in the direction we are seeking. A great many of these officers now shoot two-handed. It helps. They not only put their shots closer to the mark but they do it with less effort, in less time, and the better results are an encouragement to the gunner. In an attempt to pin down how much better the marksman could do two-handed, instead of firing in the old conventional one-handed manner, I one time shot away almost two thousand shots, half of them after either style. The ease with which the target could be hit two-handed, the better control of the pistol during recoil, and the faster progress, all indicated the soundness of the double grip. This is precisely the sort of thing we need to explore to further our marksmanship schooling. Simply because the rules say the gun must be held in one hand, and tradition has it the pistol is a one-handed proposition, does not mean that both cannot be changed.

In preparation for the close combat fire-fight of the Vietnamese jungle, our troopers enroute to IndoChina are passed through Fort Polk, La. where they are given an indoctrination course. This is done with the Daisy air rifle, the piddling little lever gun that shoots BB's and is inaccurate beyond 20 feet. The soldier is run over a course where jump-up silhouettes appear at eyeball-to-eyeball yardages. He fires the Daisy by instinctively pointing it. If he sees the sights it is just sort of incidental. He points the gun and jerks the trigger. The training has paid off quite handsomely in Southeast Asia battles and it again points up our contention that thought and imagination must be exercised to modernize our training.

Despite the fact that shooting is one of our oldest sports, who may say how long it takes for the rank tyro to acquire enough skill to surely hit a woodchuck at 300 yards; or a running whitetail at a hundred yards; or put 10 consecutive shots in the 10-ring of the smallbore target at 100 yards, prone? No one knows, and yet if we are to overhaul our shooting training some sort of a basis must be arrived at to determine, at least in approximation, how long it will take to arrive. Whether it can be done in 6 months, or two years, or five years, and with 10,000 cartridges or ten times that number. No one has these answers so any discussion of how to shorten the learning period, how to speed up the instruction, to concentrate the training, to bear down on the essentials and cut out the extraneous and nonessential is difficult to determine.

If we are to improve our instruction based on the precept that while making it better we are going to shorten the lesson time, we need a shooting group or team. This group to be composed of observers and trainees, the former veteran shooters and the latter untrained recruit marksmen. With this assemblage we would fire a program oriented to the goal that a high degree of shooting skill was to be attained by the recruits in the shortest possible time interval. Such a program would necessarily have to be written by imaginative persons who dared to suggest innovations and shortcuts not now a part of our marksmanship training.

That portion of the combined squad designated as observers and with a background of experience in the shooting game would watch the progress of the neophyte shooters and offer comment and advice on the progress. If the schooling in some of its phases was not sound, not conducive to rapid advancement, then it would be cashiered and other methods tested. Over a period of cut-and-try experimentation, a course of training would eventually evolve which would accomplish those ends we are seeking. That is, a skillful marksman in a minimum of time.

Yes, you will say, this would be most worthwhile research and development and you are all for it, but the question is who will put together the cut-and-try group? I can think of several agencies that are competent and certainly all of them should be quite interested. Foremost is the military. Their efforts up to now have been exemplary but they are a long way from completion. It would appear to me that with the manpower available and an abundance of both

old hands at the shooting game plus an almost endless quantity of the greenhorn shooters, they have all the ingredients they need to assemble the team.

A second outfit that could do the job would be the 1,000,000-member National Rifle Association. One of the principle aims of the national order is to further and encourage marksmanship training. Certainly the agency should be intensely concerned with the improvement of our training methods. Still a third organization that could undertake the experimental shooting would be the National Shooting Sports Foundation. This is an organization which was founded several years ago by the arms and ammo manufacturers. To refurbish our shooting education, enliven it, animate it and most of all improve and speed it up would be an entirely logical goal of the outfit.

To keep shooting alive, whether game hunting or target, we must constantly attract new blood. Those youngsters coming along today must fill the shooting sportsman ranks tomorrow. If we cannot interest them in our chosen sport right now, the possibilities of their taking any interest tomorrow are pretty remote. To kindle enthusiasm for the shooting hobby it should be made easier, faster to learn, and more readily attainable. To be an expert should not be a matter of years of practice but one of reasonably fast attainment of expertise. If we can develop new methods whereby today's youngster can learn to handle rifle, handgun or shotgun with good accuracy we can assure ourselves of the future of the shooting sport for a long time to come.



LEGISLATION:

THE HANDGUN GRAB IS ON!

(Continued from page 29)

It should be quite apparent from this, that the Washington handgun grab is on, and that the legislation which would amend the GCA to remove the ammunition record keeping is an important factor. Without the ammo records, the handgun grabbers would have a hard time making their laws work.

It is interesting to note that both the Treasury and Justice Departments favored the bill which would elimi-

nate .22 ammo records. According to a Justice Department spokesman, "there is not a single known instance, as we have learned from our discussions with the Internal Revenue Service, where any of this record keeping has led to a successful investigation and prosecution of a crime." A representative of the Treasury Department confirmed that no instance was known where any of the record-keeping provisions relating to sporting-

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type ammunition, including .22 rim fire ammo, had been helpful in law enforcement.

Still, there was plenty of opposition to removing the record-keeping authority. Congressman Celler (remember, he is Chairman of the Judiciary Committee) told his fellow lawmakers, "the ammunition transactions data will provide Congress with information necessary to determine whether further legislation is in fact required." He did not say what kind of further legislation.

There are several bills in Congress to remove .22 ammo from the requirements of the GCA, and it will be interesting to see which of the lawmakers votes against these measures. More interesting would be to find out why they would vote this down. It could be because they do not understand the implication of this legislation, or that they do, and want to help the handgun grabbers in their task.

One of the bills which would eliminate the record keeping on .22 ammo was introduced by a friend of shooters, Congressman Robert Sikes of Florida. His bill is HR 1677. Here are some of the comments he made when he introduced the bill:

"I am reintroducing a measure designed to remove the remaining restrictions on the sale of .22 caliber rimfire ammunition. These restrictions were imposed as a part of the 1968 gun control law. In this I am joined by 63 members of the House whose names appear below."

"It is part of the pattern of our outdoor heritage in America that marksmanship training should begin at home or in clubs under proper supervision. Through this type of training, restraint and good sportsmanship in the proper use of firearms is best taught. This is important not only in later life but important as an adjunct to the military training many young men will receive. It is more than a little significant that today young lads can be drafted to fight at age 19 in Vietnam but they are unable to purchase a box of .22 caliber ammunition for lawful sport or practice in their home areas. It is also inescapably true that states and cities which have the most stringent anti-gun laws, including Washington, D.C., are continuing to experience a very serious crime problem. The passage of anti-gun laws

and regulations produced no reduction in crime rates.

"The .22 caliber firearms are among those most generally used by law-abiding sportsmen, and particularly younger people. It should be very clear that the removal of the restrictions on the sale of .22 caliber ammunition will be welcomed by law-abiding sportsmen and in particular by young people who are just being taught the pleasures that come with the proper use of firearms. This action also will be welcomed by businessmen who have been steadily harassed by the record-keeping restrictions required by the present law.

"Co-sponsors of the bill are: Mr. Dingell, Mr. Henderson, Mr. Thomson, Mr. Caffrey, Mr. Zion, Mr. Hutchinson, Mr. Nichols, Mr. Fisher, Mr. Clark, Mr. Slack, Mr. Thompson of Georgia, Mr. Haley, Mr. McEwen, Mr. Camp, Mr. Andrews of North Dakota, Mr. Moss, Mr. Blackburn, Mr. Latta, Mr. Dorn, Mrs. Hansen of Washington, Mr. Talcott, Mr. Abernathy, Mr. Rarick, Mr. Dickinson, Mr. Burlison, Mr. Beville, Mr. Broyhill of North Carolina, Mr. Bray, Mr. Steed, Mr. Baring, Mr. Lujan, Mr. Dulaski, Mr. Schmitz, Mr. Johnson of Pennsylvania, Mr. Steiger of Arizona, Mr. Collins of Texas, Mr. Montgomery, Mr. Robinson of Virginia, Mr. Hansen of Idaho, Mr. Daniel, Mr. Powell, Mr. Wyman, Mr. Veysey, Mr. Lloyd, Mr. Goodling, Mr. Abbitt, Mr. Eshleman, Mr. Evans, Mr. Duncan, Mr. Michel, Mr. Frenzel, Mr. Cleveland, Mr. Shoup, Mr. Kuykendall, Mr. Scherle, Mr. Mizell, Mr. Ichord, Mr. Fish, Mr. Watts, Mr. Hicks of Washington, Mr. Terry, Mr. Davis of Georgia, and Mr. Roncalio."

It is important, then, that we must first see that the .22 ammo record-keeping provisions of the GCA are eliminated. Every shooter concerned with the push for confiscation of handguns must see to it that his lawmakers know of his views on this most important legislation. This is the first step toward stopping the handgun grab. The next step is to get behind each of the lawmakers who are against the grab. It is much better to write letters of support to those who are likely to support us than to write letters of opposition to those who have made up their minds that the American public—all of them —are to be disarmed.

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HANDGUNS

(Continued from page 16)

trigger. There are no levers and switches to manipulate, no optional conditions of readiness, no multiplicity of crannies to check before you're sure the thing's empty. It takes gross mindlessness to have an accident with a double action revolver whereas but moderate mindlessness will buy you one with the auto. Herewith the revolver's crowning virtue, and it's enough to override a lot of points against the gun, particularly as a police weapon.

Put yourself for a moment in the unenviable position, say, of the Police Commissioner of New York City. You've got 28 or 30,000 sworn officers, all armed, and you are personally answerable for the acts of every one of them. Moreover it's logistically impossible to get each man to the range for refresher training and qualification more than once a year. Some, of course, will practice on their own time and money, but the vast majority will not. What would you arm them with? I image I would too.

The smaller the department the more manageable the situation becomes. Training at quarterly or monthly intervals becomes feasible, and the chief often realizes that his officers are human individuals and that each one would very much like to survive. Thus it's your smaller departments that have swung to the .45. The Illinois State Police, with a roster of 1500, have adopted the S&W Model 39, and make a good case for it. The Model 39, however, is a superb example of engineering for safety, and it may become acceptable for even the mammoth departments whereas the .45 (or Super .38 or 9mm Commander) probably could not.

The most intelligent departmental regulations I've come across (and by intelligent I mean both sound in themselves and worthy of emulation by other departments including those which are larger and those which don't devote as much of the budget to training as they should) still require revolvers. However when an officer reaches a certain level of proficiency with the revolver—say Expert on the PPC—he is permitted to switch to the .45 Auto if he so desires.

There's no question in my mind but that the semi-auto is far superior to the revolver as a combat sidearm. It's superiority, however, does not show up in untrained or semi-trained hands, and in such hands it's little

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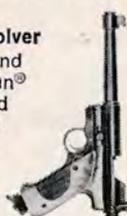
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more efficient and far less safe than a revolver. Most civilians, then, are better off with the revolver; an undetermined proportion of the police are as well. If you've read this far you certainly have the potential to take advantage of the autoloader. Whether or not you have the time, ammunition, facilities, and self discipline to train yourself properly is another matter. In the final analysis it's the gunner and not the gun that usually makes the difference; a revolver in the hands of a master is more formidable than a semi-auto in the hands

of an expert, early on anyway. It seems clear to me that the auto is gaining favor. Its advantages over the wheelgun are becoming more and more appreciated, this despite the nostalgia the revolver always will and should hold for Americans, and despite the long decades of prejudice and slander the autoloader has had to endure. At the present stage of the evolution of ideas, the automatic has become the status gun, the prestige hardware, in the U.S., just as the revolver has become in Europe. Curious is it not?

**POINT BLANK:
THE BUFFALO HUNTERS**

(Continued from page 12)

herd and two-thirds that number in the northern, the yearly movements of the herds was not great. Not more, certainly, than a couple of hundred miles. These shifts were dictated by the supply of grass and water and might take an east-west direction rather than a north-south exodus.

Some five years after the conclusion of the Civil War there were not less than 2,000 hunters in constant and deadly pursuit of the southern herd. These runners were concentrated south of the Red River which presently divides Texas and Oklahoma and were west and northwest of old Fort Griffin in Texas. By 1879, the buffalo were gone. It had been done in a period of nine years. By 1887, by count, there were remaining in North America, some 1091 bison.

One of the buff hunters who left more of his history behind than the others was Wright Mooar, a Vermonter, who went west early in the '70's and commenced to shoot. At first the bison were hunted only for the skin which was usually converted into some kind of wearing apparel. Buffalo great coats were common, and buffalo lap-robies were in fashion. The pelts were sometimes used for bed covering but since a skin would weigh 50 pounds this must have been quite a burden to the sleeper! At any rate Wright Mooar shipped a consignment of hides to his brother-in-law in New York City who turned them over to a tannery in Philadelphia which was successful in converting the skins to commercial leather. At the same time some 500 hides had been shipped to England where the hair was removed and the remaining skin was found to be first quality leather. These developments hastened the end of the plains game.

Wright Mooar invited his brother, John and a cousin, Charley Wright, to come west and join him in the killing. They came on promptly and that fall the trio, together with three skinners set up camp on Kiowa Creek in Western Kansas. John Mooar and Charley Wright ran the camp, while Wright did the shooting. He had an old Springfield .50-70 rifle, of either the 1869 or '70 model, with 32.6 inch barrel and a weight of 9 or 10 pounds. The partners in camp reloaded for the rifle while Wright was busy in the field. He had a lot of fault to find with this rifle and according to Coke Rister in his long out-of-print tome, "Fort Griffin on the Texas Frontier", Mooar ordered a new rifle from the Sharps Arms Co. It was a .50-110 caliber and cost the buffalo runner \$150. This was a terrific price in those days but Mooar did not complain.

In 1876, after several years of steady shooting, Wright Mooar returned to his boyhood home in Vermont. He had left when he was 19 and went back to visit his aged parents. Enroute he stopped off at the Winchester plant in New Haven and there ordered one of the then brand new 1876 rifles. His was the .45-75-350. The rifle had a 32-inch barrel and the full length tubular magazine held 13 cartridges. Mooar was enraptured with the potentials of the new Winchester for he could see it would not only be a first-rate buff killer but would also be great medicine on the marauding Comanches. His was very probably the first 1876 model to be carried into the buffalo country.

John Mooar had remained behind when Wright shipped east to visit the old family homestead. On his return the pair hired nine men as skinners,

teamsters, and camp help. They had thirteen wagons and fifty-two head of oxen, plus two four-mule teams. They moved out to get into position for the winter kill, trekking westward between the Brazos and Colorado Rivers, passing north of the present town of Sweetwater, Texas, and pulling up finally on Deep Creek in Scurry County, Texas.

During the winter of 1876-77, Wright Mooar shot 4500 buffalo. Among these was easily the most striking and unusual buff of the entire southern herd. He was the White Buffalo, fabled in story and song by the plains Indians and considered immortal and godlike by them. The hide was sold by Mooar for one hundred and fifty dollars. Albinos are not uncommon among all game species but this was the only white bison recorded among the buffalo of the southern herds.

Wright Mooar was a successful hunter but his methods were essentially the same as the system followed by the hundreds of others in the game. He rode out from camp early in the morning, the big Winchester '76 laid across the pommel of his saddle. In a mochila swung from the horn were 100 cartridges, freshly loaded the night before by Brother John. Before quitting the camp, Wright would inform his skinners his exact direction and where he expected to find the game. After an hour or so the skinners would follow off with the wagons, using caution to listen closely for the hollow boom of the big rifle.

Mooar would keep to the high ground, watching intently ahead for signs of the herd. When he spotted the animals he would tie his horse well out of sight and smell of the game. His approach was always from down wind and he made the stalk with time-consuming care. He did not want to get too close. The shooting was a great deal easier from 100 yards but he had found that the report of the rifle from such close range tended to disturb the buffalo. By choice he shot from 200 yards and oftentimes the range was even greater.

Before his first shot was fired he studied the grazing animals with a good deal of perception and selected the leader. This might be a bull but just as probably was an old cow. He shot her with a good deal of care. It was essential that she be killed cleanly without alarming or upsetting the other critters. If she was shot and wounded she might bawl, run, or gore other buffalo in the herd and, spilling blood, would make the remainder uneasy and strongly apt to stampede. So that first shot was

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placed with consummate care. The buff was maneuvered, sometimes by patiently waiting for it to turn, other times by actually shifting position until the rifleman got a clean shot at the heart. This was delivered not through the heavily muscled shoulder but just behind the foreleg, with the bullet angled abruptly forward. This was a favorite spot with Mooar. And when the game was close he oftimes shot for the head.

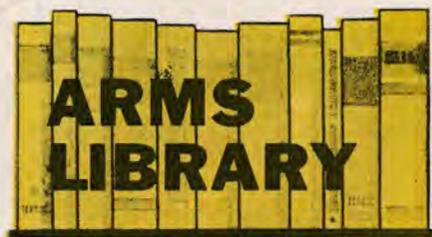
He did not use cross-sticks as did many buffalo runners but shot off his knee or more preferably from the prone position. He fired rapidly, dropping a buffalo with every shot. As his rifle warmed up and finally got hot he would throw open the lever and urinate through the bore to loosen the black powder fouling and then wipe out the barrel with a wooden cleaning rod and woolen patch. He set as a

daily goal some 50 animals. If, however, the herd was large and not tending to move out of range he might run the tally higher.

When the skinners, remaining well out of range, heard no firing for a period of twenty minutes they would come forward with the teams and wagons and commence the onerous chore of peeling the great skins from the game. This took about 8-10 minutes per pair of skinners. Oftimes the team was unhitched from the wagon and used to jerk the hide off once the legs were skinned out. Once back in camp the hide, while still green and pliable was pegged out on the ground flesh side uppermost. It was heavily salted and allowed to remain for three or four days before it was turned with the hair side up. When all the moisture had been soaked up by the application of sun, salt and air, the skin

was folded and bundled and tied with fresh green rawhide. It was then ready for transport via ox cart to the nearest buyer, usually at Fort Griffin. The hide by this time had become hard, stiff and unmanageable. It was referred to as a "flint."

During August, 1877, some 200,000 hides were sold in Fort Griffin, the next year, by January, 1878, there was a 4-acre yard covered solidly with the skins. The Fort Worth Star Telegram estimated that there were 1,600 hunters in the vicinity of the fort and that 200,000 buffalo were being killed annually. In Charley Rath's camp, about 50 miles from Griffin, it was estimated that a million hides had passed from the hunter's hands to the trader. This killing pace could not keep up. By 1879 the southern herd was completely decimated. 



Military Re-prints (Paladin Press)

There is a lot of interesting material published by the government in their FM's and TM's (Field Manuals and Technical Manuals) but not a lot of this is available to the average shooter, collector, or just interested bystander.

Paladin Press (formerly Panther Publications) is re-printing a number of the FM's and TM's used by the armed forces as well as a few of those used by foreign countries. Some of them are exact reproductions while others have been edited to some extent for clarification and ease of reading. Some of the titles offered are: "40-MM Grenade Launcher M79, An exact reproduction of FM 23-31;" "Counter Sniper Guide, Compiled and originally published under auspices of the U.S. Army Marksmanship Training Unit, Fort Benning, Georgia;" "Automatic Rifle Marksmanship", How to fire the M14E2 and M14M2 effectively in Combat, an exact reproduction of FM 23-16; "Hits Count", how to master the principles that will guarantee hits in combat, written especially for coaches and instructors, from Special Text 23-5-1, The Infantry School, Fort Benning, Georgia.

From the British Army comes "Principles of Small Arms", written by Major A. Barker, The East Yorkshire Regiment.

All of the above manuals are excellent reproductions and the illustrations are as good as the originals. The information contained in them can be very beneficial to the shooter and collector using the tried and true Army methods of instruction. Many titles are offered in this vein and Paladin offers a free catalog. We highly recommend any of these books. H.A.M.

Trails of a Wilderness Wanderer By Andy Russell

(Alfred A. Knopf, \$6.95)

Andy Russell was born fifty-six years ago in the shadow of the Rockies and still lives there. In the intervening years he has met many different kinds of people and has done quite a few different things like being a cowboy, broncbuster, trapper, guide, outfitter, rancher and wildlife photographer.

In this latest book Russell documents his life and shares his adventures and misadventures. He recalls the colorful characters he has known from recluse trappers and eccentric British remittance men to city-slicker East coast "sports" he has guided. Through his vivid memory of people, places and things, Russell takes you back into time and makes you feel as if you are actually living in the early decades of this century near the mountainous wilds of Alberta. Today he is working a ranch in that area.

Andy Russell writes a book of nature, wilderness and personal adventure from a first-hand account. Any-

one that enjoys the outdoor life of adventure and beauty is sure to enjoy the 298 pleasurable pages of this book. H.A.M.

Score Better At Trap By Fred Missildine

(Winchester Press, \$2.95)

Trap shooting is a sport that is growing by leaps and bounds every day of the week. When it comes right down to it, trap (and skeet) are really quite easy if you follow the advice of others and practice, practice, practice. Fred Missildine has been rated by many shooters as the top shotgun instructor in the country today. Since the beginning of his clay target experience in 1939, he has won more than thirty national and world trap and skeet championships and has trained and coached the winners of innumerable other titles.

"Score Better At Trap" is not a book for the beginning shooter. It is aimed at the experienced shooter whose style contains but a few errors that have crept up on him. The book begins by quickly reviewing the basics of shooting positions, aiming points and the leads at the five stations. Then the author points out proven techniques for correcting those errors most commonly found in today's average trapshooter.

With the aid of writer/photographer Nick Karas, the author provides clear, step-by-step pictorial and written explanations of all the "whats" and "hows" of trap shooting in easy to read and understand language. This is essential reading for all trap shooters, and especially those who aspire to tournament form. H.A.M.

Winchester Hunter's Handbook 1970-71

Compiled by Duncan Barnes, Edward Kozicky and John Madson (Winchester Press, \$1.95)

Winchester Press has published a handy pocket-sized reference on all the information today's hunter wants to know. There are almost 100 pages of detailed game regulations and seasons for every state in the union and every province in Canada. The states are broken down into geographical areas such as Northeast, Southeast, Midwest, etc. and the Canadian areas are grouped alphabetically.

Hunting license fees, arms and ammunition permitted in each state, best hunting areas and comments on them and much more is included for each state.

Nearly 75 pages of the book are taken up by features on things such as "Shotgun Barrels and Ballistics," "Basic Rifle Ballistics," "Ballistics for Hunters," and more articles that apply directly to the hunter. All are well written and quite comprehensive and easy to understand.

This fully illustrated book is a terrific buy for any hunter. It's small enough to take on a trip yet comprehensive to bring the hunter up on all the necessary details. H.A.M.

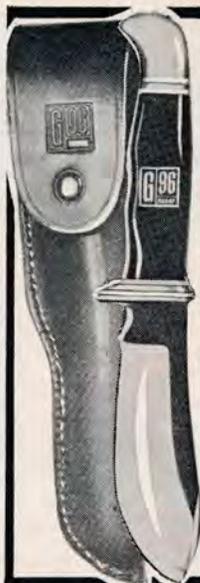
Military Pistols and Revolvers

By I. V. Hogg (Arco \$1.95)

This book is designed to provide a compact and easy to use guide to the principal pistols and revolvers used by military forces during both World War I and World War II. Since soldiers have a habit of carrying non-regulation weapons into battle, this book covers only the officially adopted sidearms. Exceptions to this are the Webly-Fosbery (unofficially adopted but widely used) and the Mars and Savage pistols that were proposed for military use but not accepted.

In the 80 pages of this finely bound and covered paperback, 32 different revolvers and automatic pistols are covered with good photos and short but meaningful text. In many cases the handguns covered are shown partially field stripped or the actions open ready for loading. Also for reference, many of the guns are posed with an original round of ammunition to give the reader some idea of just what the gun shoots.

Although the book is ideal for the beginning student of firearms, it makes an excellent reference source for the expert as well. It is published in two editions, one is paper bound and the other is the Library edition that sells for \$3.50 H.A.M.



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OUR MAN IN WASHINGTON



By CARL WOLFF

The 92nd Congress opened with a real bang for those interested in firearms legislation. Some of the news good and some bad.

The good news is that Senator Edward Kennedy (D., Mass.) has been kicked out as Assistant Majority Leader by his fellow Democrats. The bad news is that not only has legislation been re-introduced to stop the sale of all handguns; new bills would require the registration of all firearms and the licensing of owners, and the confiscation of all handguns!

Replacing Senator Kennedy as Whip is Senator Robert Byrd (D., W. Va.). He opposes all forms of licensing and registration. He voted for the 1968 Gun Control Act.

This GUNS contributor contacted the Senator for a comment on pending bills to do away with the recordkeeping requirements adopted by the Internal Revenue Service as they apply to the purchase of .22 rimfire ammunition. "It is a form of registration and I am opposed to any such registration. I voted to remove rifle and shotgun ammunition from these requirements last year and I see no problem when the .22 ammo bill comes before the Senate."

Regular readers will recall Kennedy had a hand in twice blocking enactment of bills excluding .22 ammo from record keeping requirements last year. The first time was when a foreign investment taxing bill came to the Senate out of the Finance Committee.

The House had passed the measure previously. When the Senate Finance Committee added a rider to remove long gun ammunition including .22 caliber rimfire, Kennedy refused to bring the legislation to the floor until supporters of the amendment agreed to remove .22 caliber ammo.

Following this, Congressman Al Ullman (D., Oreg.) and Senator Gale McGee (D., Wyo.) introduced bills to specifically remove .22 rimfire. The house

measure was recommended by the Ways and Means Committee, passed by the House, and recommended by the Senate Finance Committee. Kennedy stopped it during the closing days of the 91st Congress, and the measure died pending Senate action.

Again this congress, Senator McGee and Congressman Ullman have introduced .22 caliber exclusion bills. All the measure needs for enactment is for the shooting sportsmen to write their congressmen and senators. In the House the bill is H.R. 1716, pending before the Ways and Means Committee. In the Senate the bill is S. 144, pending before the Finance Committee.

If you are tired of providing identification, listing your age and address each time you buy a box of .22 rimfires, write that letter! There were nearly 5,000 bills introduced the first week of the new congress. The wheel that squeaks gets the grease!

But, the committee that really should be watched is the House Judiciary. Here is where the handgun confiscation bills await action.

The committee lost five of its members last election. The new members have not, at this writing, been appointed. However, the committee's ranking members, anti-gunners Emanuel Celler (chairman) and William McCulloch (R., Ohio) still run things.

Over on the Senate side, the Judiciary Committee members have been named. This is where anti-gun bills will go. Members follow:

James Eastland, Miss. (chairman); John McClellan, Ark.; Sam Ervin, N.C.; Philip Hart, Mich.; Edward Kennedy, Mass.; Birch Bahy, Ind.; Roman Hruska, Nebr.; Hiram Fong, Hawaii; Hugh Scott, Penn.; Strom Thurmond, S.C.; Marlow Cook, Ky.; Quentin Burdick, N.D.; Robert Byrd, W. Va.; John Tunney, Calif.; Charles McC. Mathias, Jr., Md.; Robert Griffin, Mich.

Going off the (Continued on next page)

committee as the result of the elections were Tom Dodd, Chairman of the Juvenile Delinquency Subcommittee, and Joseph Tyding. Dodd has been replaced by Birch Bahy as Subcommittee Chairman of Delinquency. Birch replaced Dodd although Senator Kennedy out ranked the Indiana senator in terms of seniority.

It is not known, at this writing, to what subcommittee anti-gun legislation will be referred once it reaches Committee Chairman James Eastland. However, speculation is that it will go to one chaired by John McClellan and not Delinquency. And, that is, if true, good news!

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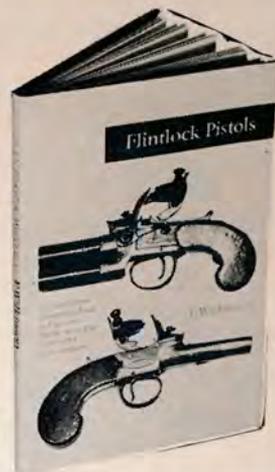
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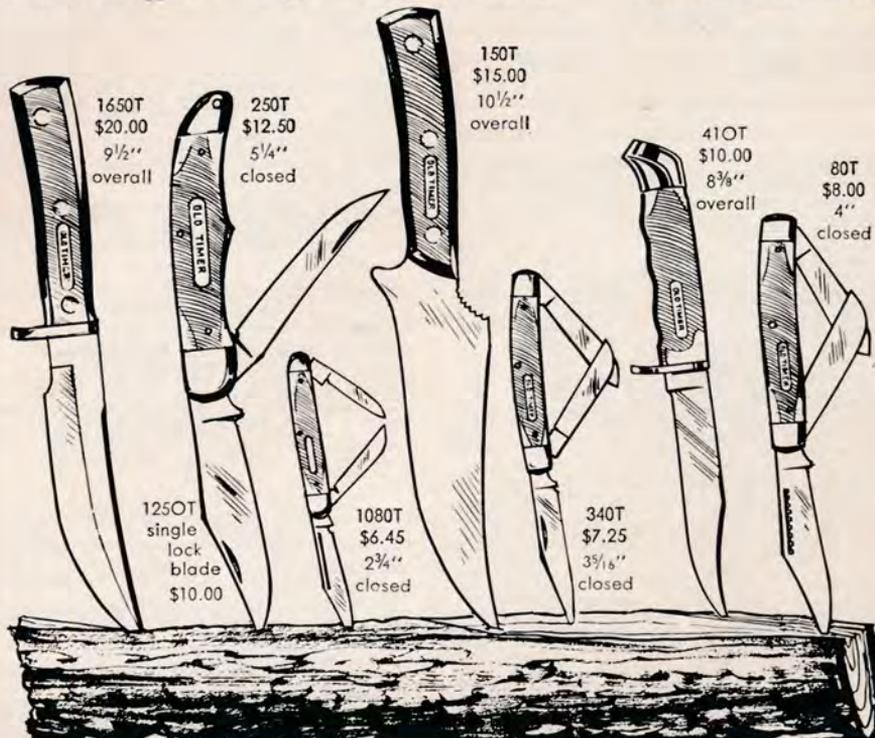
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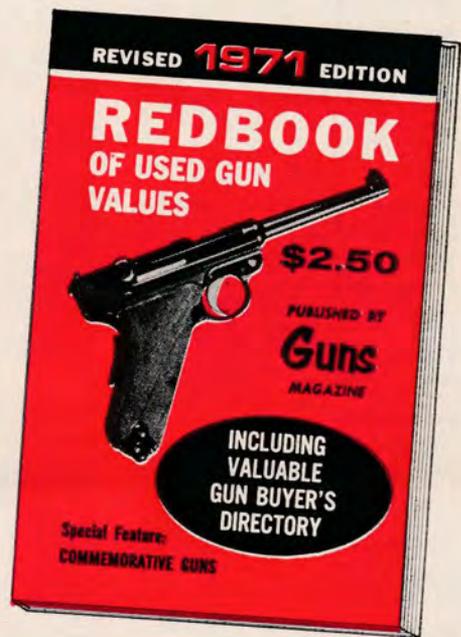
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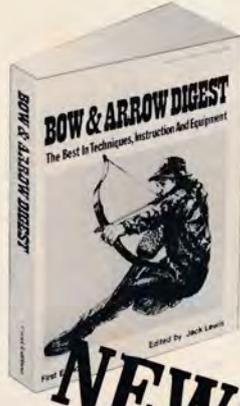
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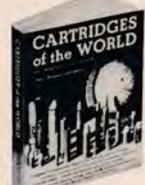
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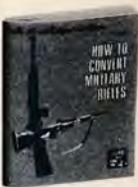
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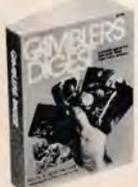
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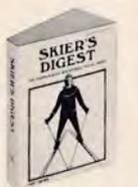
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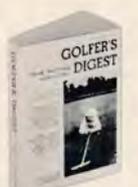
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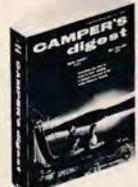
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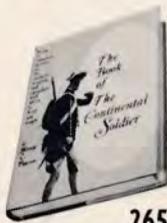
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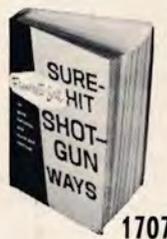
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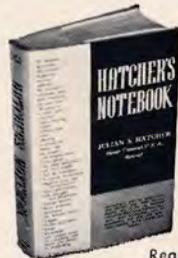
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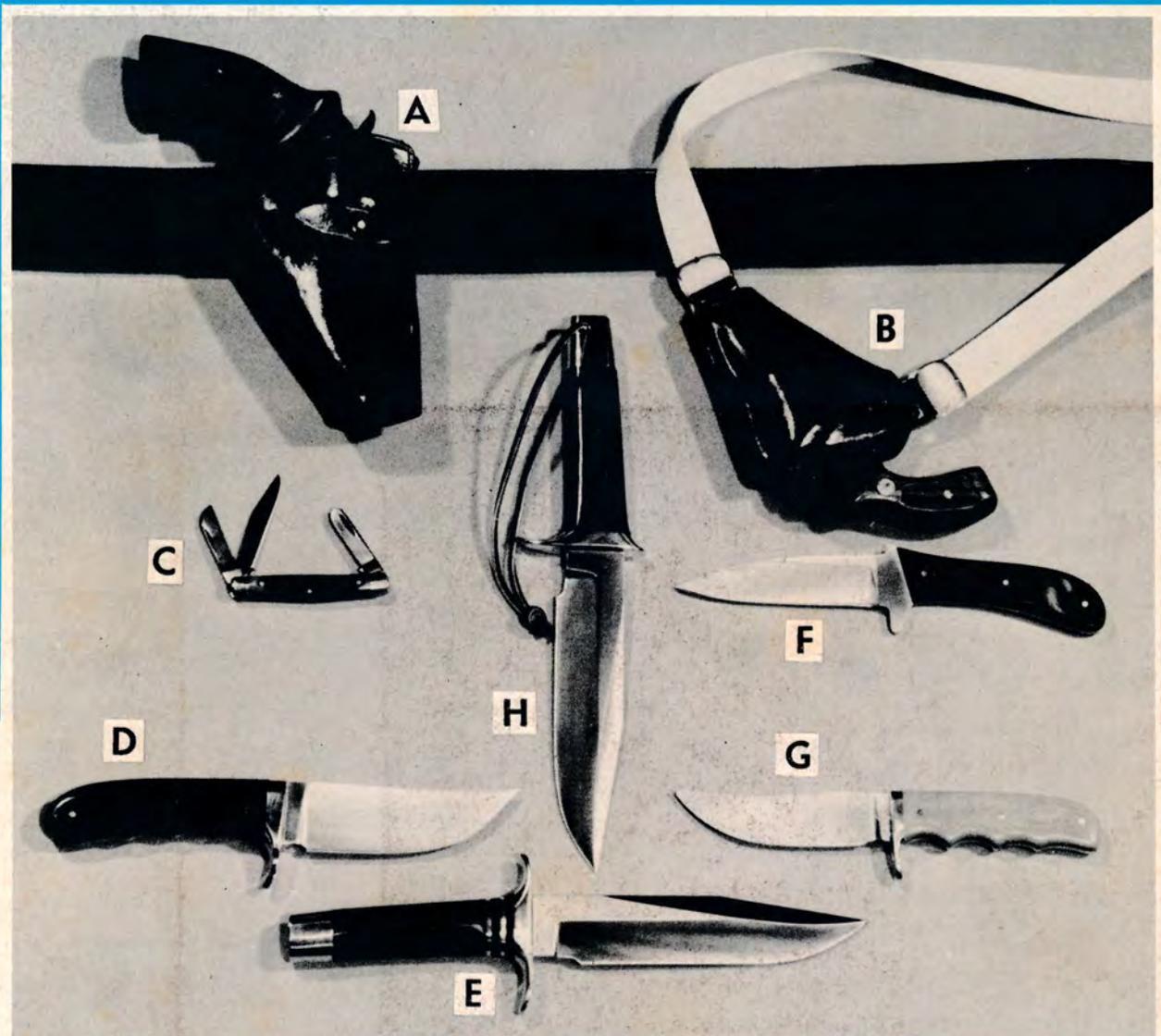
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