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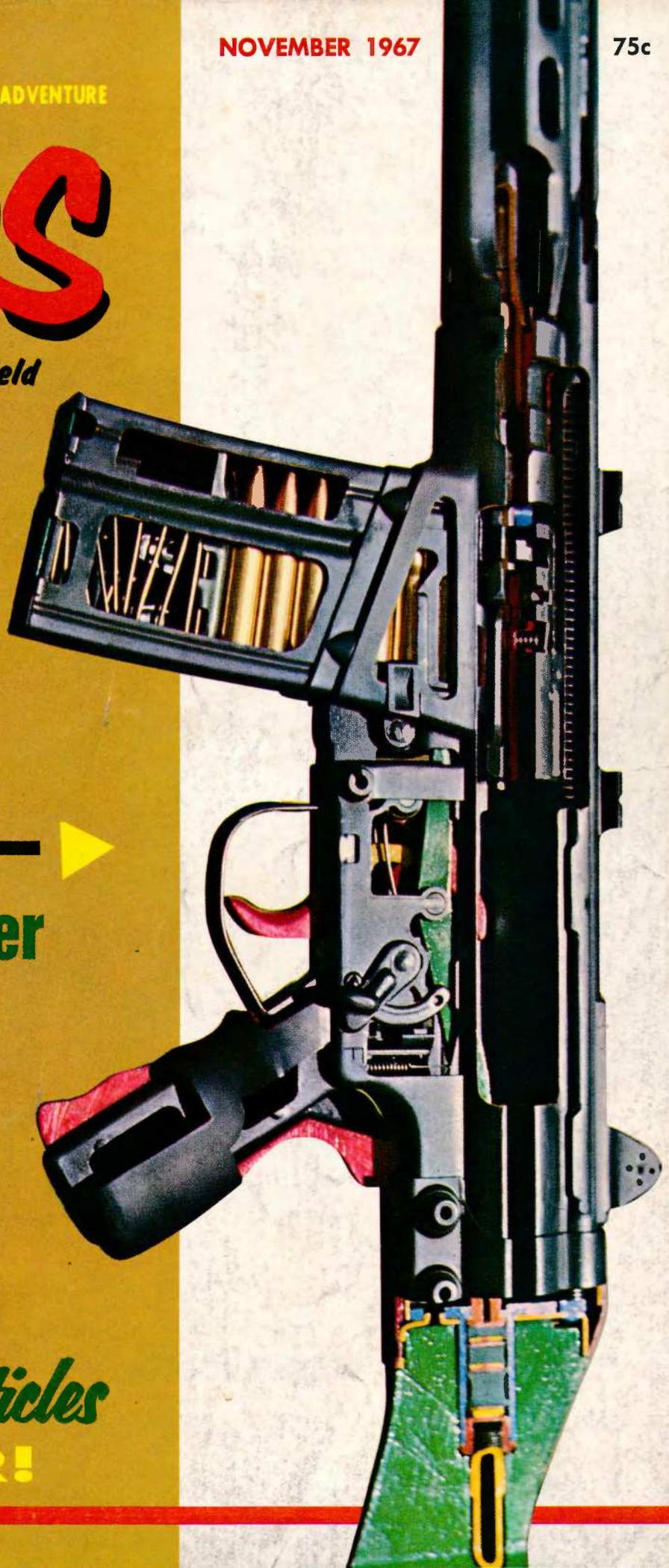
THE GUNS OF RIOTS

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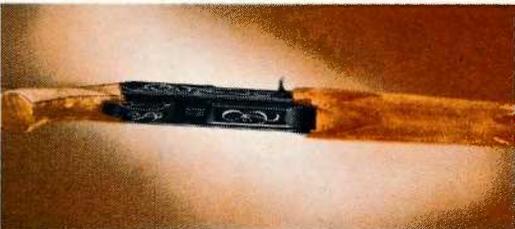
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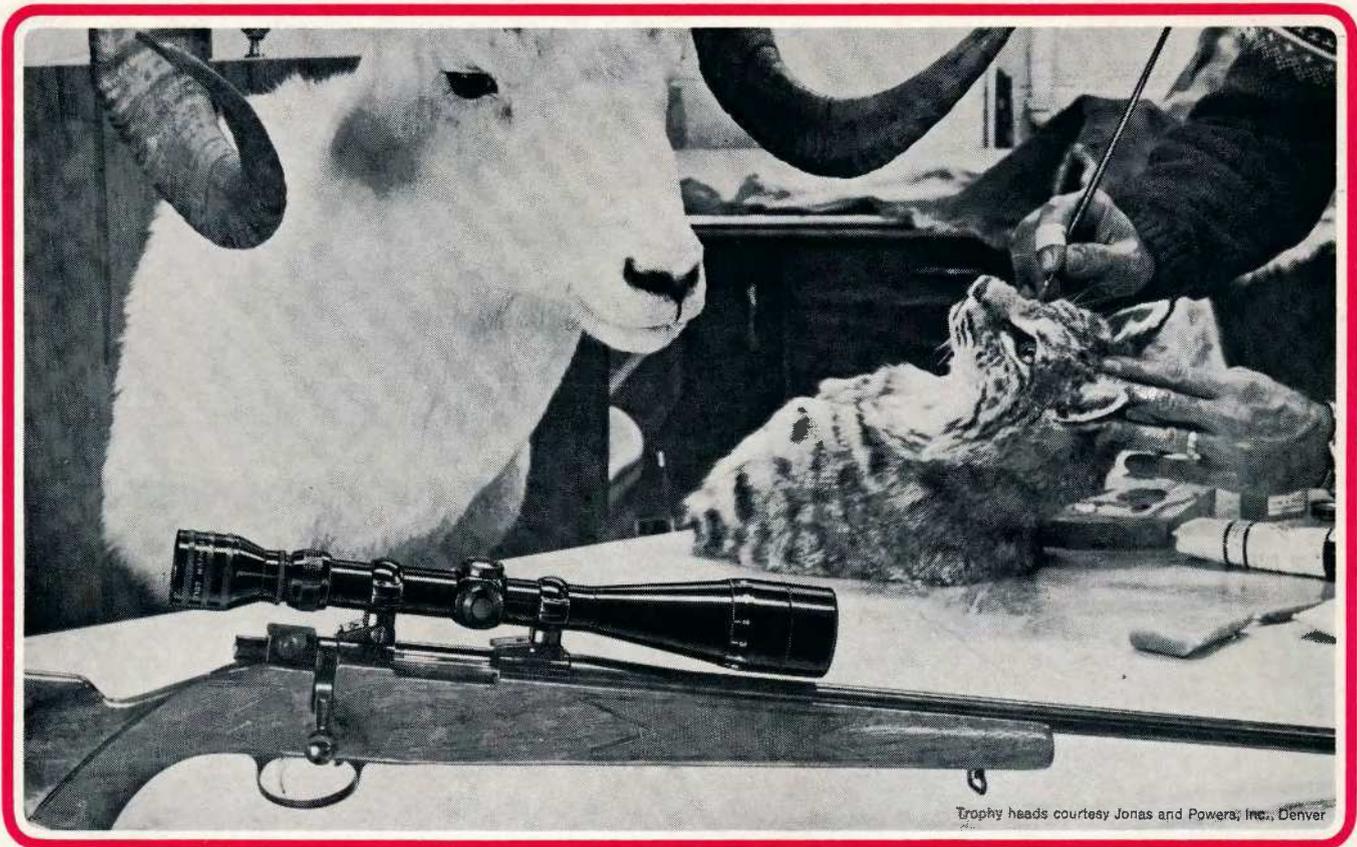
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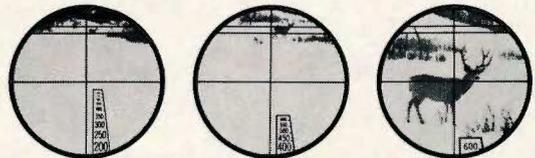
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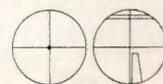
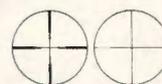
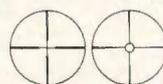
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TRIGGER TALK

THIS MONTH we present the final part of the story of W.H.B. Smith gun designs. Some of the long guns shown on pages 35-37 may appear to be of ordinary design, but I am certain that it will not be too long before some enterprising manufacturer recognizes the marketing potential of one or more of the designs. In connection with this series of articles, many hidden facets of W.H.B. Smith's involvement in the world of firearms came to light, and we hope that we will be able to delve deeper into this in the not too distant future.

• • •

On page 14 we have a brand new idea for a continuing department. E. L. Reedstrom, who has done a great many illustrations for GUNS in the past, came up with this idea, and researched, laid out, and developed the column as you see it. If our readers want more of these, there is a great amount of material available. If you would like to see these continue—covering all periods from the Revolutionary War through modern times—write to Mr. Reedstrom at GUNS office, and let him know.

• • •

James Serven is back again this month with a fine article on Boutet, the artist gunmaker. Col. Rex Applegate tells of his tests of the new High Standard Model Ten riot shotgun; and Bob Matt takes a look at the value of police matches. In addition, we sent Bill Storm into New Jersey for a look at the guns of riots, and from his article you get the feeling that about the only people who are pushing for strict gun control legislation are those who have political aspirations—at least that's the feeling I get.

• • •

Our request for new ideas for color photos has brought many which are being implemented at this moment. We have several photographers out among collectors, museums, and the arms industry, gathering color photos for the bigger and better full color pages which will come.

• • •

Photo credits: 22, 23, 24. Fred Keesing, Plainfield Courier News; 28, 29, High Standard; 35-37, Steve Hines; 41. Harry C. Knode; 46, H. Armstrong Roberts; 48, U.S. Marine Corps.

THE COVER

This rare cut-away model of the CETME Sport rifle was made especially by CETME for Mars Equipment Corp., who loaned it to GUNS so that this photo could be taken. Photo by J. Rakusan; taken with a Yashika D, outdoors on Ektachrome X, 1/250 @ f-22.

NOVEMBER, 1967

Vol. XIII, No. 11-155

George E. von Rosen
Publisher

Arthur S. Arkush
Ass't to the Publisher

Guns

FINEST IN THE FIREARMS FIELD

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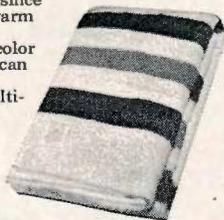
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CROSSFIRE

Swedish Fan

I have just read your May number and especially like George Charles article about the Hammerli rapid fire pistol. I hope that I some day can start shooting in rapid fire competition, and therefore I am very interested in this kind of information. With this letter I would like to thank you for this kind of reading. Can you ask George Charles to write two more articles of this kind: One about the Beretta Olympic Mod. 80 and one about the Walther Mod. OSP?

Christen Lindahl
Lindome, Sweden

Lower That Top!

The following is an experience that I had on May 20, 1967, which I feel will be of interest to your readers: While hunting in New Brunswick for varmints, I took a shot over the top of my car, a convertible, which is legal in New Brunswick. At the shot, an eight inch tear opened up in the cloth roof of the car. I was shooting a 6 mm Remington with a 22 inch barrel. The load was 48 grains of 4350 with an 85 grain Sierra bullet. As the damage had already been done, tests were made, using the 6 mm Remington, a 6.5 mm Remington Magnum, and a 308 Winchester. When the barrel was held within four inches of the car top, tears appeared at the shot. It seems that when the muzzle is over six inches from the top, no damage will occur. but if the barrel is within two to four inches, serious damage will occur.

I feel that the muzzle blast of a high velocity rifle has sufficient force to rip convertible tops, and this point is of sufficient interest to justify publication as a public service. Photos of the car top are available. I hope you will see fit to print this, as it will probably save many readers serious expenditures.

New York City, New York
Steve Miller

Colt SAA Loads

Concerning the article "A Better Grip for the Colt Single Action" in the August issue, the author states, "Then we went to a load consisting of the .235 gr. Keith bullet in front of 8 gr. of Unique. This load approaches the magnum category." I don't know what magnum he is talking about, but according to the Speer No. 7 Reloading Manual, 8 gr. of Unique gives this bullet a MV of 953 fps. I realize the author uses a 7½ inch barrel, but this load would still not be in the magnum category. In fact, this is the lightest load listed for this particular bullet.

John Taffin
McCall, Idaho

Bisonite Inlay Paste

Please tell me where I can send for some Bisonite Silver Inlay Paste, which I read about in your August issue. I am very interested in this sort of work.

Lt. M. F. Kahl
EPO San Francisco, Calif.

The address of the Bisonite Company is Box 84, Buffalo, New York 14217.—Ed.

Correction

In your article "Better Combat Shooting," September, 1967, you list Cascade Cartridge, Inc. as the manufacturer of Red Jet plastic bullets. This is not true. Red Jets are manufactured by Sampson Machine Works, and are distributed nationally by our firm.

Lee Conway
General Manager
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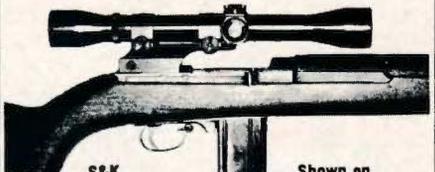


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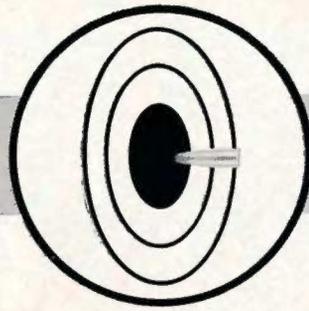
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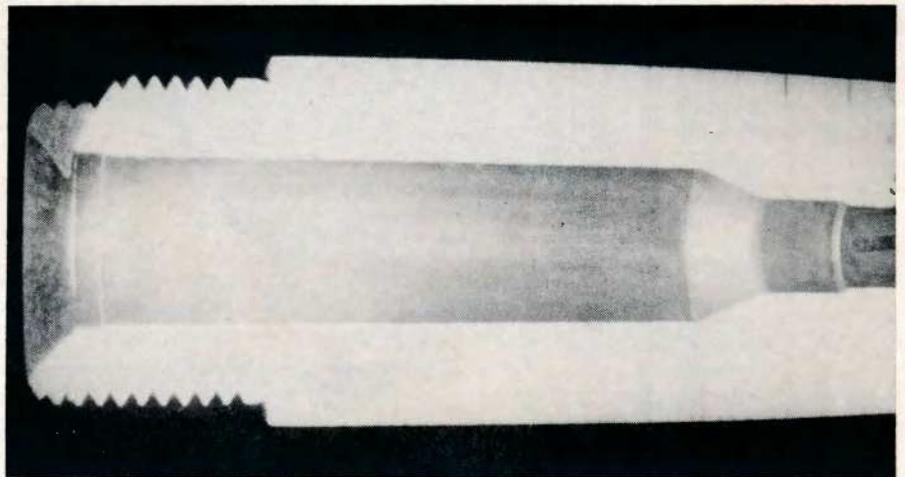
By COL. CHARLES ASKINS

THE HIGHPOWER RIFLE lockup is getting just like a Boston banker's heart: tighter and tighter, with more latches on it than a virginity belt. It used to be we treated the breechup like the garden gate. One fastener was enough, but not any more. Now we "Katie, bar the door" and if any manufacturer these days had the temerity to come out with a hotrock number and it had no more locks on it than say the old Krag—which had the sum total of one—he'd get hoorawed off the course.

What does this mean? Are our car-

lot more difficult but compounding the equation price-wise.

The multiplicity of locks has gone hand in glove with the development of the magnum cartridge. The magnum has been a phenomenon of the post WW II years. There has been a steady increase in these super loads and there seems to be no abatement. The belted round develops more pressure and because this is well understood, the user demands a stronger latchup. The realization that he has a few more lugs up front to hold that hot round makes him a lot easier in



The older style rifle barrel is abruptly chopped off at the breech end, and leaves the head of the cartridge case unsupported and unshrouded.

tridges getting hotter? Are pressures going out through the roof so that it ain't safe unless the action has more lugs on it than Navajos in Gallup? It looks that way.

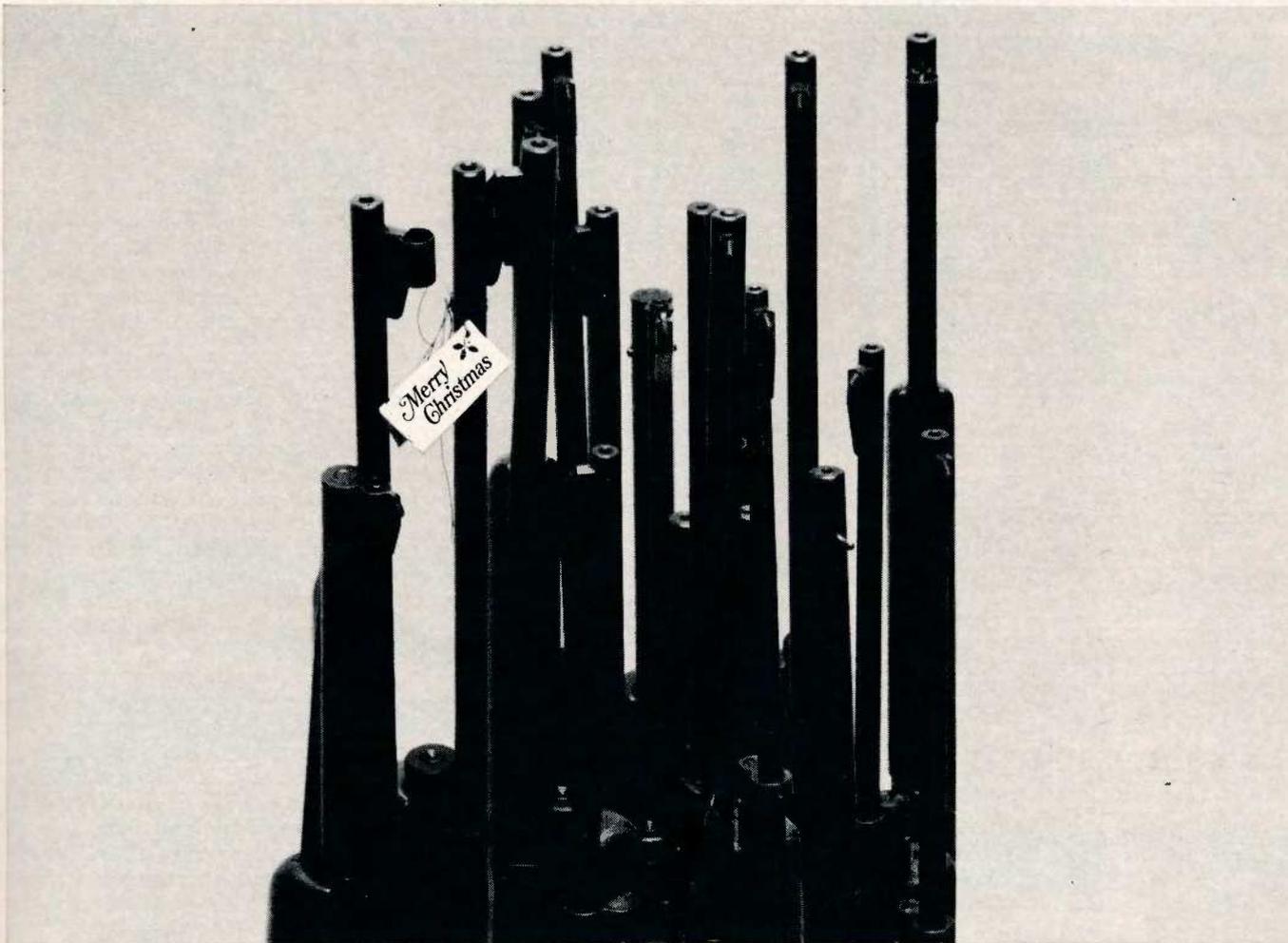
Whenever you start out to design a new highpower high-intensity action you try to keep the cost down. Every time you add a new locking lug you run up the cost of production. And these costs have to be passed along to the buyer who is vitally interested in the tab. If you can design an action with only one locking lug, like say the ancient SMLE, you have a simplified manufacturing job ahead. If, on the other hand, you add three lugs, or six lugs, or maybe 10 lugs, then you have sure complicated the problem by, not only making the chore of fabrication a

his mind, whether handloader or not.

We have been shooting the old '98 Mauser action for almost 70 years. The 1903 Springfield is almost as venerable. The '17 Enfield is a half-century in being. These vintage types have two locking lugs up pretty well toward the forward end of the bolt. The Mauser has a 3rd lug but it is just for fofoeraw—A sales gimmick. I have never seen one yet that had any bearing in its recess below the receiver bridge.

Not only do these creaky old types manage somehow with only two lugs but they also have a bolt face as flat as a Piute hit in the mush with a paddle. Likewise the barrel breech is just as squared off. This means the head of

(Continued on page 10)



BARRELS OF FUN!

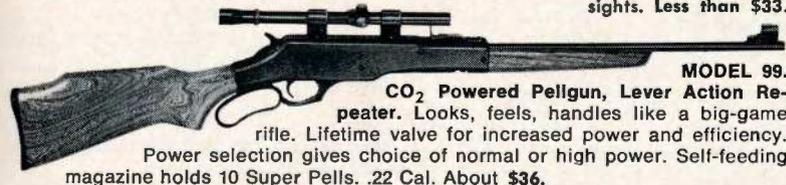
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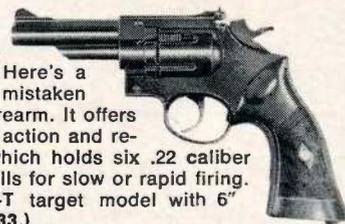
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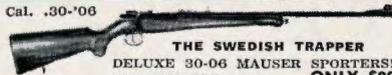
MODEL 38-C.
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POINT BLANK

(Continued from page 8)

the cartridge sorta hangs out in mid-air, unsupported and unshrouded. A dangerous situation, it looks like, for the pressures generated have to be accepted by the comparatively flimsy brass casing.

Along with the addition of multi-lugs, the new crop of designers have done a lot about this lack of support for the head end of the cartridge. They have countersunk the face of the bolt so that the head is surrounded by a wall of steel. And then to doubly insure the safety, they have counter-sunk the barrel breech so that the bolt, when it is in battery, is shrouded by either the barrel proper or by a barrel extension. This has added a tremendous safety factor which is not altogether appreciated by the average guns-man today.

When a new model is announced there is always a fanfare of publicity and propaganda by the drum & bugle corps. These chappies have to have grist for their propaganda mill and nothing provides a better selling point than to admit, happily, "The new rifle has 14 locking lugs and a sunken bolt-face. The designer may have known full well that for the cartridge he intended to be fired in his new creation that two lugs were quite enough but he is under considerable duress to provide the P&P division with ammunition for their selling campaign. So he deliberately adds a half-dozen more lugs than he knows the musket really needs. Everybody is delighted: The Publicity & Propaganda division, the sporting goods dealer who peddles the ordnance, and finally the new owner who is sure his gun is the stoutest ever made.

An interesting phenomenon about locking up the breech end of the rifle is that you do not always get the lugs to bear against their recesses in the receiver ring. This occurs with a good deal of regularity with the older types that have only two lugs. These lugs are 180 degrees opposed to each other and turn into cuts which are located at the 12 and six o'clock points within the receiver. Many a shooter has owned a rifle for years and has been quite unaware of the fact that his highpower locked up with only one lug bearing. This puts a lot of strain on the one lock and sometimes this single lug will crack. Other times, and this is more frequent, it sets back and when this happens, it is a blessing for then the second lug commences to

bear and at once the rifle is considerably safer to fire.

If it is something of a chore to get both lugs on the 2-lug model to bear evenly in the lockup, you can imagine what the job must be when the rifle has three lugs, or six lugs, or nine lugs. It is common for these modern numbers to not bear on all these multilocks. The owner does not know this and what he don't know doesn't hurt him. Actually he has more locking surface than he needs anyhow. I was talking to one of our leading designers about this problem and he told me, "Yep, we know all the lugs will not bear as the rifle comes off the production line. Do you know how to cure this? We just touch off an 85,000 psi blue pill in the gun and right after that, let me assure you, all the lugs show a full bearing surface!" This was a purely trade secret and while the boys who are whumping up our new models these days don't ordinarily get quite that frank it was reassuring to me to be told this. To machine a full bearing would be long, tedious, painstaking, and awfully expensive. The proofload was a short cut and a good one!

There isn't anyone who more heartily approves of this modern innovation of the countersunk bolt face than me. I like this development and it reassures me. Too, I am quite happy about all the lugs on the head end of the bolt. It provides added strength, impresses the user that the rifle is thoroughly modern, and undoubtedly it contributes to better accuracy. But just how necessary are these touches?

It is my candid opinion that most of them are of greatest value to the P&P division. These boys have got to have something to dwell upon, a gambit upon which to hang their propaganda pitch, a selling gimmick to impress the gullible buyer: The stronger the action, the stronger the sales pitch. Right here I think lies the greatest worth of these new developments.

Who has heard of an old '98 Mauser blowing up with a modern load in it? Even the hottest of the magnum loading? Who has blown up an old '03 lately? Who has had problems with the sturdy 1917 Enfield? Or the original Model 70 Winchester? I deal with shooters everyday. No one has written me that he has blown up any of these old veterans, and yet these old timers are chambered for every cartridge—

(Continued on page 66)

ORIGINAL CETME RIFLES

\$219⁹⁵

Scope Not Included in Price



FEATURES:
 Caliber: .308 Winchester, all factory loads from 110 to 180 grains. Will function well with military 7.62 NATO ammunition.
 Weight: 9 pounds.
 Length Overall: 39 inches.
 Type of Mechanism: Self-loading, with roller-inertial locking, gas assisted.
 Materials: Finest selected steels, traditional wood stock.
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 Finish: Satin Matte anti-rust black.
 Sights: Open at 100 yds., adjustable peep up to 400 yds.

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We have a limited supply of these Rifles - - - All in EXCELLENT CONDITION These rifles come COMPLETE WITH ORIGINAL RIFLE CHEST. "Monte Carlo" cheek piece that is detachable, and cased individually.

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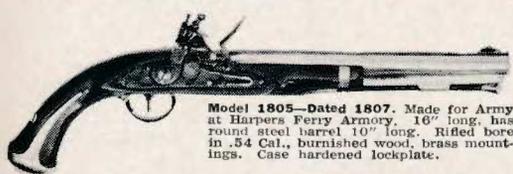
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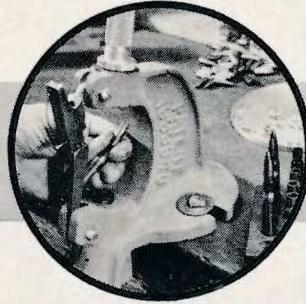
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HANDLOADING BENCH

By **DAVE WOLFE**

Editor and Publisher of
The HANDLOADER Magazine

IF YOU HAVEN'T started making up the ammo you'll need for the big game hunt you're just about to start on, or in fact finished with it, then, friend, you're pretty far behind schedule as of right now. At the risk of repeating what I (and a good many other scribes) have already told you a few dozen times, summer *was* the time to get out and do a goodly bit of shooting with the gun that will be used to take your winter meat this season. If you're one of those laddies who puts "ole meat-getter" away in the closet at the end of each season, to set there until the next rolls around, then you're not giving either yourself or the gun a fair chance at the next big trophy buck that ambles out of the brush into your sights.

The fellow who loads and shoots all summer is the fellow who has the best chance of filling his ticket on the very first shot of the season. They may say "familiarity breeds contempt," but that doesn't apply to the familiarity that develops between hunter and rifle from lots of shooting. Know the gun and know the ammunition, and your meat is halfway shot already!

Just on the off chance that there might be one or two among you who'd like to hear what I've had good success with, here are a few loads that have done right well in my rifles over the past few years.

DEER (anything, up to and including those big Colorado muleys): 6 mm Remington, for use in two guns—my son's M-600 Remington carbine, and my own M-700 Remington with 20" barrel. Both scoped, the latter with a Redfield 2 1/2x-7x scope with post and crosshair reticle. The load consists of the Nosler 6 mm Partition bullet, 100 gr., semi-pointed projectile, driven by 43.5 grains of DuPont IMR 4350 powder. According to published pressure data, this load should produce less than 49,000 psi breech pressure, so while warmish, possesses ample safety margin. Primers are well flattened in the M-700, not so much so in the M-600; extraction is easy and

case life good. Velocity measured out of the 20" tube is about 2,825 fps, so probably just under 2,800 from the carbine. Whatever the velocity is out of that short barrel, it's plenty, for beautifully expanded bullets have been recovered from both antelope and deer.

When used in the M-700 rifle, this load will place its first five consecutive rounds in 1 1/2" or less at 100 yards if I do my part—and it has produced groups as small as 15/16". It has been doing so since the fall of '62, when the rifle was first blooded. In the little carbine it doesn't do quite as well, but has produced a number of groups under 1 1/2", and will go into 1 3/4" almost any day of the week. In the rifle, this load has taken a dozen head of game—in the carbine two. And not one had to be trailed. That makes it a pretty fair load in my estimation, and I think I'll keep using it as long as John Nosler makes the bullets and DuPont the powder.

BIGGER STUFF Another cartridge I've developed a fondness for is the .300 Winchester Magnum. I have two rifles, one a pre-'64 M-70, standard weight; the other a Dumoulin full-stocked carbine with 20" barrel. The Winchester is remarkable in that it will shoot close to 1 1/2" groups with almost any commercial 180 gr. bullet, so long as the case is nearly filled with powder. It digests IMR 4350, H4831 and H450 with equal facility, so long as there is enough of the stuff to drive the 180 gr. bullet at slightly over 3,000 fps.

All of the ammunition I've loaded lately for this gun contains 75.0 grains of H450 and the 180 gr. Speer Spitzer, which has been chronographed at slightly over 3,000 fps, and according to Hodgdon's tests should produce a bit over 50,000 psi. I've not chronographed this load out of the short barrel gun, but it shoots into 1 3/4" from a cold, fouled bore, and is certainly moving fast enough to take care of anything one is likely to want to shoot. This same powder charge, com-

bined with the Nosler 180 gr. Spitzer, took very nice care of a couple of southeastern Alaskan bears in the spring of '66—from the carbine.

While many people say nasty things about the .264 Winchester Magnum, the featherweight Winchester M-70 I've used in this caliber since '62 has never let me down, and it still shoots where it looks. For the past five years I've used nothing but 140 gr. bullets in this caliber, having decided the 100 gr. usually blew up too fast when driven to the velocities one expects from this big case. A couple of Texas white tails shot with the light bullet were badly blown about. The 140 gr. is fully as accurate, not quite so fast, and penetrates better—at least for me.

Again, both IMR 4350 and H4831 have worked quite well. Of the former, I've long used 61.0 grains behind 140 gr. bullets, producing just under 3,000 fps in the featherweight 22" barrel. Groups regularly run in the vicinity of 1¼ to 1½", and the accuracy holds up to 400 yards or more. So far, the Hornady SC 140 gr. bullet has grouped most consistently in the Winchester with this load, the Nosler running it a close second. The gun/load combination has killed 8-10 head of game thus far, with never a trailing job to do.

• • •

I'll wager there isn't a handloader around who isn't eventually called upon to make up some odd-ball cartridge for a friend. It seems that once you become known as a maker of ammunition, everyone in the state shows up with favors they want done. More often than not, requests are for obsolete military cartridges that can be produced by reforming readily available brass. Reforming cases isn't too much of a problem, particularly if you've had the foresight to equip yourself with Maj. Nonte's book "Cartridge Conversions" (Stackpole, \$8.95). It covers just about any problem that might come up in producing hard-to-find cases. You'd be surprised at what can be done in the way of making one caliber case do for another.

But reforming is not really the best or simplest solution. Best, by far, is to locate proper brass cases. It isn't always easy to find them, but there are importers who bring in European components that will solve many such problems.

Significant in this area of interest is an "availability" list just received from Pete Dickey, General Manager, Firearms International. This firm imports SAKO ammunition from Finland, and now also stocks unprimed

Big man, big gun

The man / Colonel Larson —The gun / Marlin 39. Colonel Larson and his Marlin 39 have come a long way. Given up as a hopeless cripple, he overcame the effects of polio and went on to win six world professional shooting titles. He set these records with an unmodified Marlin 39 Mountie.

To regain the use of his crippled muscles, Colonel forced himself to hold, aim, and fire a Marlin 39. In the process, he developed the extraordinary abilities that brought him the world championships. Today he gives shooting exhibitions all over the country with his original Marlin 39 — the same kind of .22 used by Annie Oakley. He has fired over 800,000 rounds through its barrel!

What's the secret of the Marlin 39's stamina? Simple. Its the only .22 still made like a deer rifle. That still is made with machined forgings. That still has a hand-fitted walnut stock. And that still is individually test fired and sighted in.

Colonel has a special reason for feeling this .22 stands alone, and many gun experts agree — the Marlin 39 is the best .22 made.

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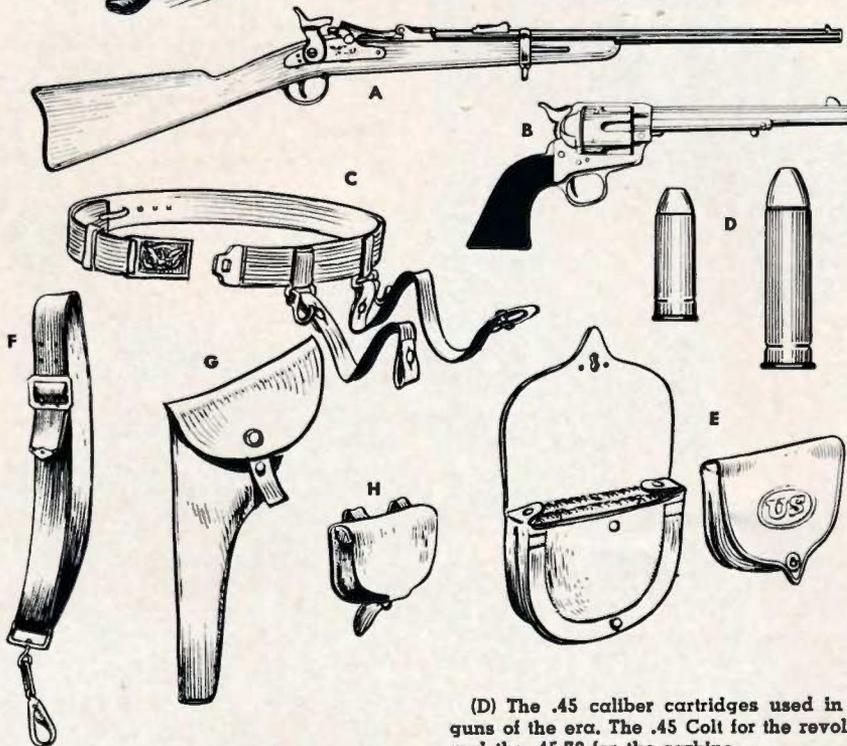
U. S. ACCOUTREMENTS



INDIAN WARS

By E. L. REEDSTROM

Much of the serviceable equipment left over from the Civil War was used extensively on campaigns in the West. Shown here are some of these leftovers, with alterations made for the Cavalry from the period from 1874 to 1877.



(A) Springfield Carbine, Model 70, .50 caliber. Saw much action in the early 1870's. Soon a newer model, the 1873, was offered and served through the Custer fight.

(B) Colt Single Action Army revolver. Issued to the cavalry in 1874.

(C) Black leather saber belt, with rectangular brass plate bearing U.S. coat of arms and German silver wreath, as described in 1861 Ordnance manual.

(D) The .45 caliber cartridges used in the guns of the era. The .45 Colt for the revolver, and the .45-70 for the carbine.

(E) Dyer pattern cartridge pouch, issued in 1874. Carried on the belt, it held 40 cartridges. Wool lined.

(F) Carbine sling of Civil War Pattern, 2½" wide. Slung over the shoulder, and attached to ring on carbine swivel bar.

(G) Pistol holster of Civil War pattern.

(H) Issue pistol cartridge pouch, altered from a Civil War percussion cap box.

cases in the entire SAKO line. This includes a variety of foreign calibers not available as empty cases from other sources, or in otherwise short supply.

Of particular interest to handloaders and shooters of military and foreign sporting arms are the following calibers: .22 Vierling; 6.3x53R (6.5x53R for Dutch & Roumanian M95 Mannlichers); 7x53R; 7x54mm; 7.62 Russian; 8.2x53R; 9.3x53R; 9.3x57mm. Most so-called "standard" U.S. calibers are also available—both as loaded ammunition and as empty, unprimed cases.

Of course, the question of primer type comes up. F. I. tells me that a fair percentage of the calibers listed above take Berdan primers. This isn't the tremendous disadvantage often claimed—fresh Berdan primers of the correct sizes are available from the Alcan Co., and Lachmiller Engineering Co. makes a very convenient spur-type decapping tool that fits nearly all calibers. So all the essentials for using the SAKO cases are readily available. Berdan primers can be seated with conventional reloading tools in the more common sizes—and RCBS makes special-size priming punches for the off-beat sizes.

So, if you've an odd-ball rifle in one of the calibers above, new brass is available. Just see your Firearms International dealer and tell him the items are in stock for immediate delivery in the F.I. Washington warehouses.

• • •

Recently we've received some "Speedy Bullets," manufactured by Leon's Reloading Service, 3945 N. 11th St., Lincoln, Nebraska 68521. The samples are in .357 Magnum caliber, usable, of course, in .38 Special and other so-called ".38's." The samples have a relatively large exposure of lead and a flat point approximately .205" in diameter. Jacket is thin copper, .380" long (in 120-gr. wt.), cannelured .190" ahead of the base. Bullet base is cupped, the cavity being about .065" deep.

Shooting these bullets ahead of 14.0 gr. of Hercules 2400 powder in my four-inch Colt Python .357 Magnum has produced good accuracy and excellent expansion—both with the solid and hollow-point versions. No leading was detected, indicating the pure lead nose did not flow back and contact the bore. Recovered bullets indicate full bottoming in the rifling grooves, with virtually no gas-cutting. These appear to be excellent bullets and full particulars can be obtained from the maker.





Wolfe
Handloading



Braverman
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Gunsmithing

Panel of Experts

Steyr Parts

In regards to Maj. Nonte's article in the April issue of GUNS, "Are Surplus Handguns Really a Bargain?" it was stated that parts are available for the Steyr 1912 9 mm. I have not been able to find parts for my Steyr. I need a keeper that holds the slide on the frame up on the barrel end. Also need a new barrel or even a used one for a Steyr chambered for 9 mm Luger. I wrote the National Rifle Association and they advised me that some of the military surplus dealers still advertise a few cartridges but no repair parts are available. Can you advise me where I can purchase parts.

A. F. Church
Newburg, Oregon

While parts are not generally available for the M-12 Steyr pistol, there are a number of dealers who specialize in buying up obsolete arms and breaking them down for parts. I suggest you try one or more of the following for what you need: Bob Lovell, Box 401, Elmhurst, Illinois 60128; Numrich Arms Co., West Hurley, New York, and N. F. Strebe, 5404 Marlboro Pike, Washington 27 D.C. Be certain you describe the parts fully in your query.—D.W.

Marble's Game Getter

I have a chance to buy a Marble's Game Getter made in Gladstone, Michigan. There is no date on the gun. The gun is in original very good condition. It has a .22 rifled barrel on top and .410 smooth bore under. Both barrels are about 10 inches long. It is a pistol with a metal skeleton stock and the serial number is in five digits. Can you tell me the value of this gun?

John E. Wirtanen, Jr.
Ishpeming, Michigan

A Marble's Game Getter, in good condition, should be worth \$75 to \$85. However, Game Getters come within the clutches of the National Firearms

Act and I'd urge you to look into this before you get involved. Transfer must be approved by the Treasury Department and carry a special tax stamp; this is a peculiar can of beans and most who open it are very, very sorry. Information and requisite forms are obtainable from the Alcohol and Tobacco Tax Unit, c/o District Director of Internal Revenue.—S.B.

Hollis & Sheath Shotgun

I have an old double barrel muzzle loading shotgun. I would like some information as to its value. The strap between the barrels is 7/8 inch wide and marked "London Fine Twist" with a fence row with trees, two ducks, and a hunter inlaid in silver. It has 32 inch barrels, engraving on the side of both hammers, game scenes on both lock plates. There is what looks to be a brass patch box on the left side of the stock. It's all original and in good condition. The name on both sides is Hollis & Sheath.

L. R. Myers
Roanoke, Va.

Hollis & Sheath were gunmakers active in Birmingham, England, about 1852-62. Most of their guns were percussion revolvers, but they also made a few long arms, and some of the latter were quite nice. While there is not much of a market for old shotguns, the engraving and inlays of your gun should be of interest, and if the quality is there, you might be able to get \$45-\$55 from a collector.—S.B.

Marlin .25-20

I recently got a Marlin .25-20 caliber rifle, octagon barrel, with no serial number. On the barrel it says, "Marlin Firearms Company, New Haven, Ct. U.S.A. Pat'd Aug. 12, 1890, March 1, 1892, June 8, 1897, Nov. 29, 1904." It has buckhorn sights, and is in fairly good condition. I am interested in how much it would be worth to a collector.



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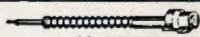
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And if it is not a collectors item, how much is it worth. Your reply will be greatly appreciated.

Dennis Cocking
South Lake Tahoe, Calif.

Collectors value for your Marlin L.A. rifle in .25-20 caliber would depend upon its condition. The range in price would be from about \$50.00 to some place about \$125.00 is in fine to new condition.—R.M.

Metropolitan Revolver

I would appreciate a personal answer as to the age and probable value of the following gun: A six-shot percussion revolver, with the following lettering on top of the barrel, "Metropolitan Arms Co. New York." It is about .38 caliber and has deep rifling. In appearance it is very much like a Colt with brass backstrap and trigger strap, looks like a small Dragon. All serial numbers match, #9746. It has smooth patina, fine appearance, and smooth wood grips. The cylinder turning hand is very worn, but otherwise in working order. It is reported to have been picked up on the battlefield after the Custer massacre and kept in the same family that originally received the gun.

W. L. Pion
Point Marion, Penna

The Metropolitan percussion revolver or Pocket Navy .36, five shot, single action, was bought by the government during the Civil War period in small numbers. Collectors value for one in the condition stated in your letter would be about \$120.00.—R.M.

Case Dents

I need some help on resizing brass cases. I tried to neck some .308 caliber cases down to .243 caliber. I used a Lyman full-length resizer. It is the type that is used in a vise. After running the brass into the dies, I punched the brass out of the die to find a very deep dent in the shoulder of the case. What should I do to correct the problem?

I'm presently stationed in Viet Nam but will be returning to the States in a couple of months. On returning to the States I want to start my reloading hobby again. I've found a lot of very good articles in GUNS Magazine.

Waldo L. Stoner
APO San Francisco, Calif.

The dents at the neck and shoulder of your .308 case, necked down to .243 caliber, are caused by excessive lubricant trapped between cases and

die. They can be eliminated by making certain you apply only a very, very thin film of lubricant to the cases and by periodically wiping excessive lube out of the neck-shoulder area of the die.—D.W.

Remington Derringer

I have in my possession a .41 Short over and under derringer. Under the barrel is stamped the number 62 and on the top barrel is stamped "Remington Arms Co., Ilion, N.Y." The gun is in almost perfect condition except for signs of wear on the finish. I would like to know the value of the gun, and also, if it would take from the value to have it reblued?

John Stanford
Norman, Okla.

The Remington Derringer O/U .41 rimfire was manufactured from 1866 to 1935 and a total of over 150,000 were produced. If your Remington is in perfect condition and with very few signs of wear, why reblue it. Please try to keep it in the original condition, as it can do nothing but increase in value this way. If you have it re-finished, it can only hurt it for the future collectors. Collectors value would be about \$90.00.—R.M.

Black Chroming

I duck hunt with a Browning Automatic and I constantly get it wet. I have heard of having your gun black chromed on the outside while leaving bright or hard chrome on the inside (also mechanism). Do you know who can do this and what it would cost?

H. M. Hawkins
North Little Rock, Ark.

Your Browning autoloading shotgun can be black chrome finished on the outside by the Marker Machine Company, Box 426, Charleston, Illinois. Cost would run between \$21.50 and \$35.00. The bore and working parts can be given the regular white hard chrome finish. Prices for the bores only are shown at \$14.50 for single barrel shotguns and \$21.50 for doubles.—w.s.

.25-20 W.C.F. Loads

I have a .25-20 W.C.F. Winchester Model 1892 lever action rifle that is in excellent shape for which I would like to reload some ammunition.

I want to use a 60 gr. bullet and load it to a velocity of 2360 fps. In P. O. Ackley's *Handbook for Shooters and Reloaders, Volume II*, this can be done with 11 grains of H-240 powder. This powder is no longer made and I wonder if you could tell me what other powder and the amount to use to get this velocity of 2360 fps.

Glenn C. Miller
Memphis, Tenn.

The characteristics of H-240 powder are virtually identical to those of Hercules 2400 powder. In fact, the H-240 designation was assigned because of its extreme similarity to 2400. Consequently you may use Hercules 2400 powder in the same load in your .25-20 W.C.F. Model 92.—D.W.

Swaging Bullet Jackets

I have a question on bullet swaging. To add more pleasure to my hand-loading and shooting with my .270, I'd like to swage bullets from copper tubing and lead wire. I'm not interested in buying jackets already made. Can you give me the name of a die maker who can do this?

W. F. Turner
Turlock, Calif.

I do not know of a die maker that regularly supplies tools to make bullet jackets from copper tubing. However, Frank Hemsted does a great deal of custom bullet making die work. I am certain that if anyone can make what you want, he can do it. The address is Frank Hemsted, 7272 Valaho Drive, Tujunga, Calif.—D.W.

Paramount Magazine

I have owned a .32 auto pistol for five years and have known of the gun's whereabouts for 15 years before buying it. It is a Paramount .32 caliber. I need a clip or magazine for it. I have tried through several gunsmiths for 12 months to get one but with no success. On the left side of the slide is "Pistol automatic cal 765/Paramount/Cal 32." On the other side, directly in front of the safety pin is "#6316/Made/Spain." If possible please let me know where to obtain a clip; also any origin of the pistol.

Ben Robinson
Nashville, N. C.

SARCO, Central Avenue, Stirling, New Jersey, should be able to furnish you with a magazine for your Paramount pistol. The gun illustrated in your picture was made in Spain, probably before WW II. Several manufacturers are believed to have used this brand name. All specimens I've encountered had magazines that would interchange.—S.B.

Radom

I have a Radom P35, in 9 mm Luger caliber. It is in good condition and I would like to know its value. Its patent number is 15567, serial number 57817. Below the name is "P.35(P)."

David Eskew
Moscow, Ohio

Radoms in good condition are currently worth \$45 to \$55 in the market place. There are not many around and I expect the value to increase.—S.B.

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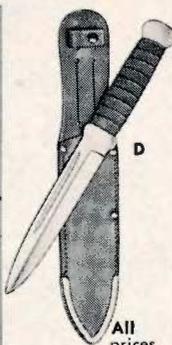
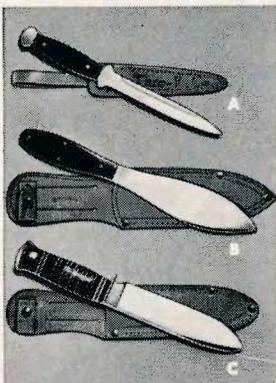
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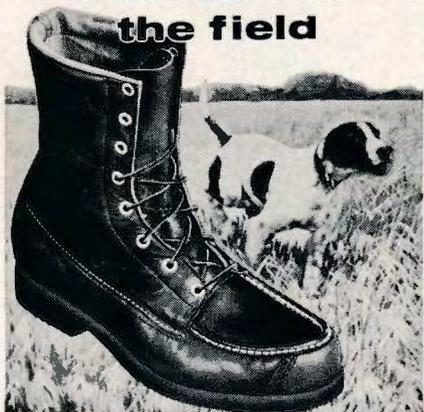
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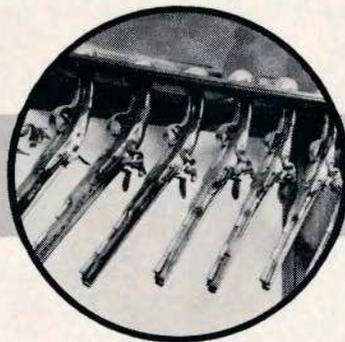
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GUN RACK

Oehler Chronograph

Probably the most simple chronograph on the market today is the Oehler. It weighs 3 lb., is contained in a metal box measuring 8x5x4, and is powered with 3 flashlight batteries. Velocity readings can be taken at 2½ feet, or 5 feet, or 10 feet. I like the longer distance for accuracy. Ken Oehler, an electrical engineer, the longhair who developed the digital chronograph, as he calls his instrument, ran the .22 Long Rifle, .224 Weatherby, .22-250 Remington, 7 mm Magnum and the .30-06 through the jumps the other day.



We set up two of the chronographs, both to work simultaneously, and as a check of one against the other. Maximum differences between the two instruments with the .22 Long Rifle was 1.1 fps. With the .224 it was 3.4 fps; with the .22-250 it amounted to 3.3 fps. The 7 mm Magnum showed 5.4 fps, and the '06 4.33 fps. I have never seen two chronographs work so closely together. The H. P. White Lab gave the Oehler a wringout test against a Potter 451 C and a CMC 250, firing 10 shots with the .22 Long Rifle. The Potter showed an average velocity of 1270, the CMC 1268 and the Oehler 1266. The same firing with the '06 produced 2722 fps with the Potter, 2717 with the CMC 250, and 2708 with the Oehler. A third firing with the .264 Magnum got 3576 for the Potter, 3572 with the CMC and 3552 with the Oehler.

The Oehler utilizes a crystal controlled oscillator which generates 400,000 pulses per second. The conventional screens are used as in other chronographs and the count starts when the first screen is broken, is halted when the second screen is bullet-pierced. The unit contains the

equivalent of 188 individual transistors packaged in miniature integrated circuits on the reverse side of the control panel. On the face of this same panel is a simple Yes-No meter. When the shot is fired and the two screens have both been pierced, the operator turns a simple knob through 12 stops. Each stop has a number, these range from 1 to 2048. As he moves through the 12 stops, the Yes-No meter will swing over to read Yes or it will remain still. The operator writes on a sheet the numbers which read Yes. As example he fires a shot with the '06 and gets a Yes reading on 1, 16, 64, 256, 1024, this totals 1361. Reference to the conversion tables provided with the chronograph indicates the velocity reading was 2939 fps. It is just that simple.

The Oehler sells for \$89.95, plus two bucks for shipping costs. It comes complete with all screens, screen holders, batteries, cables and conversion tables from Oehler Research. P.O. Box 9135G, Austin, Tex. 78756. —COL. CHARLES ASKINS.

Herter Powders

The ubiquitous Herter's, Inc., always in there pitching, has tossed another line of products into the hand-loading ring! Herter's Model Perfect shotgun and rifle powders. The powders are marked (the cans) "Made in Scotland," which came as a good bit of a surprise—not that it should have, but most of us are just accustomed to that sort of thing being produced in Europe.

There are four rifle powders, numbers 100, 101, 102, and 103. Number 100 is the slowest-burning of the lot, intended for heavy bullets in large capacity cases, and number 103 burns the fastest, being intended for relatively light bullets and smaller capacity cases. It is impossible to make any comparison with domestic powders until comprehensive pressure and velocity tests have been conducted and considerable loading and shooting experience has been gained. Most emphatically, though, we can say that it

is not possible to interchange existing loading data for other powders when using Herter's. Interpolation, such as many of are sometimes wont to do, between different powders when we have loading data for them, is OUT! Don't try it.

Four shotshell powders are also available, numbers 160, 162, 164 and 169. Note here that while the lowest-numbered rifle powder burns slowest, the order is reversed with the shotshell powders. Number 160 is a fast



burning propellant for light loads, and number 169 is for the heaviest magnum loads. This, in my opinion, leads to confusion. Herter's shotshell powders are all made in round flake or disc form in varying shades of gray. Number 164 also contains a small percentage of white flakes and 162 contains yellow flakes for identification purposes. An excellent idea, since the two powders are otherwise alike in appearance.

These eight new powders are intended to meet virtually all rifle and shotshell handloading needs, and can probably also be used in some pistol loads—but don't try the latter until such time as tried and trusted data is published for that purpose. Rifle and shotgun loading data is furnished by Herter's, but space doesn't allow us to present it here. Prices on the Herter's powders range from \$1.45 for a 9 oz. can of 160 to \$2.55 for a pound can of any of the rifle numbers. More details and prices can be obtained by writing Herter's Inc., Dept. G, Waseca, Minnesota.—MAJ. GEORGE NONTE.

Bianchi Holster

John Bianchi, who used to be a Los Angeles police officer, has made me a special scabbard for the S&W 9 mm auto pistol. It is a holster with a generous flap on it. Now Bianchi doesn't usually make this kind of rig. He specializes in fastdraw harness and some of his designs are completely original. There is a lot of interest on the west coast in gunslinging and some of the

aficionados are tops at the game. The competition among the gun-throwers isn't a whit more intense than that among the top leather workers. John Bianchi has a company (he long ago gave up his detective work for the L. A. P.D. and went to making holsters as a full time job) and for competition he has Safariland, another holster building concern—just awarded a contract to make scabbards for the Los Angeles police. Besides these leaders there is Arvo Ojala, Bohlen, and others.

My particular rig is pretty staid by modern standards. No quick draw outfit, this. It is designed for protection in all manner of weather. The big flap will keep out most of the rain and snow, the gun cannot spill out of this harness, and if a hoss tips over and leaves me on the ground I won't have to look around for the shooting iron. It will be right there in the Bianchi creation. John told me quite frankly that they had little experience in making holsters with flap on 'em. "No demand," he stated quite frankly. Maybe not, but I like them. For day in and day out carry, hunting in all sorts of country, afoot and horseback, the gun is better protected, suffers less



from the elements, and is always ready when you need it if it is covered with a good flap.

The Bianchi holster is notable for some of the best cowhide ever poured into a belt rig. This is prime leather and Gordon David, who actually did the design work and the final put-together, was careful to see that the holster well came up only high enough to leave the rear sight in the clear. This I liked. The holster is cut low around the trigger guard and the flap does not tend to ride atop the magazine release button. The triple-strength linen thread is reinforced at the top of the well and the snap is a heavy-duty model. Bianchi provided a Border Patrol belt and clip pouch, the two apparently cut out of top quality skirting leather.—
COL. CHARLES ASKINS.

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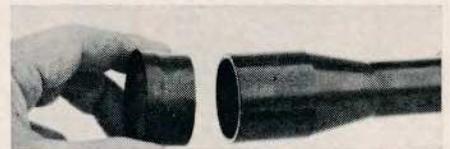
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CARL WOLFF

HOUSE KEEPS ANTI-GUN MEASURE OUT OF RIOT BILL

Sneaky, these anti-gun types! While members of the shooting fraternity were busy with the firearms hearings before Dodd's Juvenile Delinquency Subcommittee in the Senate, a "fast-one" to rush through legislation was twice tried on the floor of the House.

A frustrated and angered House on July 19, 1967, took up H.R. 421, the so-called anti-riot bill. The measure provided for Federal investigative and prosecutive jurisdiction over out-of-state agitators of riots. And, provided a maximum penalty of \$10,000 fine, or 5 years imprisonment, or both, for any person found guilty of traveling from State to State or who used the mail or other facilities of interstate commerce with intent to incite street violence and rioting.

Most members had long felt provisions of the Civil Rights Act, written to stop the violating of Negro civil rights, could also be used to stop agitators of riots. True, victims, being killed, having their homes burned, their businesses destroyed, were having their civil rights violated. Still, the Justice Department, without testing jurisdiction in the courts, had decided it had no jurisdiction.

Last year on August 9, 1966, by an overwhelming majority, the House passed an amendment to the Civil Rights Act to specifically deal with the additional authority. However, the bill died in the Senate.

Again the House found itself trying to do a relatively simple task. Its frustration and anger brought on by some 19 major riots in the past 3 months, turned to internal confusion when Congressman Richard McCarthy (D.-N.Y.) proposed amending the anti-riot bill.

Upon being recognized by the Chairman, he came down to the dock, turned over his amendment to be read by the Bill Clerk, and faced the members, as is customary in offering amendments. The Clerk started to read the amendment:

"That (a) Congress hereby finds and declares—(1) that information gathered by law enforcement person-



nel at the scene of recent riots indicates the presence of firearms of out-of-State origin in violation of State and local law. . . ." Rep. McCarthy, interrupting the reading of his amendment, asked unanimous consent that the amendment be considered as read.

Congressman William Cramer (D.-Fla.) on his feet, called out, "Mr. Chairman, I object." The Clerk was again ordered to read the amendment. Again, the house was interrupted. This time Congressman Edwin Willis (D.-La.) called out for a ruling from the floor on what the objection was about. The Chairman replied it was to the dispensing with the reading, and again ordered the Clerk to continue reading the amendment.

Next, Congressman Durward Hall (D.-Mo.) wanted to know if this was the "so-called Celler firearms bill related to the firearms bill proposed by a Member (Dodd) of the other body (Senate), concerning which we have heard and known so much in recent weeks?" The Chairman answered that he had no knowledge of what the amendment was about, asking if Rep. Hall would yield to Rep. McCarthy so he may answer the question. Mr. McCarthy in turn stated, "It is not."

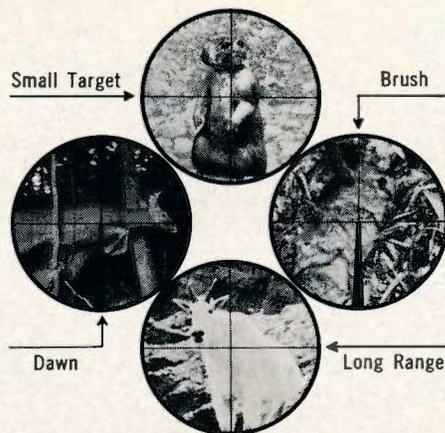
The Chairman then asked the whole House, "Is there objection to the request (that the amendment be considered as read) of the Gentlemen from New York (Mr. McCarthy)." Again Rep. Hall raised his voice, "Yes, Mr. Chairman. I object because it is not the same one, and therefore, is not familiar to the members of the Committee of the Whole (House of Representatives)."

Again, the Clerk was directed to read. But, Rep. Willis and Congressman H. R. Gross. (D.-Iowa) both rose to make a point of order against the amendment. Upon the direction from the Chair, Rep. Gross suggested the amendment was not "germane" to the pending legislation. Rep. Willis seconded the same view by stating, "That is the reservation that I had in mind." Rep. Gross added, "I have no reservation. I am making the point of order!" The Chair finally asked Rep. McCarthy if he wished to be heard on the point of order.

Now came the test. If the firearms legislation was "germane," in effect the anti-gun legislation would be put before the House without having been released from a house committee. Rep. McCarthy started to talk about what Governor Hughes of New Jersey had said about the Administration's firearms bill. Rep. Gross interrupted, "I would hope that the gentleman would confine his remarks to the point of order." The Chairman ordered Rep. McCarthy to confine himself to the merits of the point of order and not the substance of the bill.

Next, Mr. McCarthy took off on the false statement by the Attorney General about "last year 1 million guns of all sorts

(Continued on page 59)



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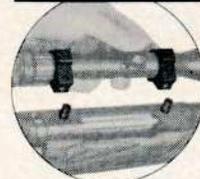
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Top: Plainfield Police search autos for missing Carbinas and come up with a variety of arms. Below: Some Carbinas were found in cemetery





GUNS of RIOTS

Plainfield Homes Searched for Guns

A National Guardsman pointed his gun at me and told me to 'get out'." said Abraham Harrison. In another apartment, a woman complained that family memento—a bayonet that belonged to her father—had been taken. "They're just showing said one Negro man said."

**The criminal will
always get guns, even if
he has to break
another law to do it**

By BILL STORM

GUNS BECAME THE FOCAL POINT of recent riots in the small town of Plainfield, New Jersey—both physically and vocally, for both the rioters and law enforcement agencies. Even as the rioting subsided in Newark, residents and police of the many nearby communities could feel the hot breath of hate in their cities.

The guns which were pinpointed in Plainfield, and which served as weapons of hate, were .30 caliber Carbines, stolen from the plant of the Plainfield Machine Company. There were 46 Carbines stolen, and newspapers across the land dwelled on these guns as fodder for their columns on the violence. But few, if any, made mention of 50 other Carbines which came from the Plainfield plant. These 50 were loaned to the Plainfield Police Department during the height of the crisis, and helped arm a major portion of the 88-man force. Sgt. John Hayles, training officer for the department, credited these Carbines with saving the day for his men in the face of devastating sniper fire. Yet few people across the nation read or heard about this.

The Plainfield Machine Company plant, located in an isolated section of Middlesex Township, some four miles from the town of Plainfield, ordinarily has few Carbines on hand over a weekend. This is due partially to the fact that the company is back ordered and partially to a desire on management's part for security. However, on Saturday, July 15, there were about 120 Carbines on hand—a shipping company had missed a pickup on Friday.

The looters broke in through an overhead garage door, and in the

short time it took for the police to arrive (the plant is wired with a burglar alarm which sounds at the police station), they made off with five cartons containing 46 M-1 Carbines. In their haste, they left behind 82 other Carbines stacked in cartons nearer to the door, along with ammunition used to test the guns.

The empty cartons which contained the Carbines were found later in Plainfield, and shortly after the Carbines were stolen, sniping and looting began.

During the three days of rioting in Plainfield, the police department, armed now with Carbines loaned to them by Bill Storck, battled snipers in attempts to rescue city firemen pinned down in the firehouse and at the scene of riot-started conflagrations. The loan of the Carbines put Plainfield Machine even further behind in their orders and delayed an important overseas order.

When the rioting subsided on Tuesday, July 18th, the riot area was ringed with police and National Guard personnel, and a search was begun for the 46 stolen Carbines.

GUNS OF RIOTS



When asked if persons found with the guns would be arrested on charges of possession, Governor Hughes replied, "We are primarily interested in guns and not arrests."

The search ended only an hour and a half after it began due to strong resentment among residents of the area. During this time, three of the Carbines were found, and other weapons were confiscated. Later, several more Carbines were found in a nearby cemetery. The majority of the stolen guns are as yet unaccounted for, and their recovery is considered unfeasible at this time.

As he lauded Bill Storck and Bill Haas, top executives of the Plainfield Machine Co., Sgt. Hayles also spoke out against those who would use the riots as an excuse for even more restrictive anti-gun legislation. During the uneasy truce which followed a house to house search for the stolen carbines, I talked to Sgt. Hayles, and asked for his thoughts on the stolen guns and the Carbines loaned to the police.

"I don't think that we can ever repay the help that Bill Storck has given us," the weary officer declared. "For us, those 50 Carbines were real life savers. In the face of rebellion, they put teeth in law enforcement." Commenting on the need for more control over the sale of firearms, Sgt. Hayles stated, "The criminal can get his gun. Look how they broke into Bill's place. They'll get their guns through robbery, violence, or any way they can."

Now that a sort of restless peace has returned to Plainfield, Sgt. Hayles revealed that he and most of his men intend to buy their own personal Carbines so that they would be immediately available should further riots break out in highly industrialized northern New Jersey, either in their own town or adjoining areas where they might be called to assist. "Rioters and criminals respect the Carbine," Hayles stated, "and we want to have them when we need them."

During the height of the insurrections, both in Newark and Plainfield, top state officials used the violence to call for even more firearms controls, even though the restrictive legislation passed in New Jersey in 1966 was called "the toughest gun law of any State in the Union," by its strongest supporter, Attorney General Arthur J. Sills. How well this law worked to keep guns from the hands of criminals—be they bank robbers or rioters—can best be shown by the major shooting incidents which took place during the rioting in New Jersey.

In Newark, one of the first targets of the mobs was a Sears Roebuck store, where the sporting goods department was raided, and virtually

(Continued on page 69)

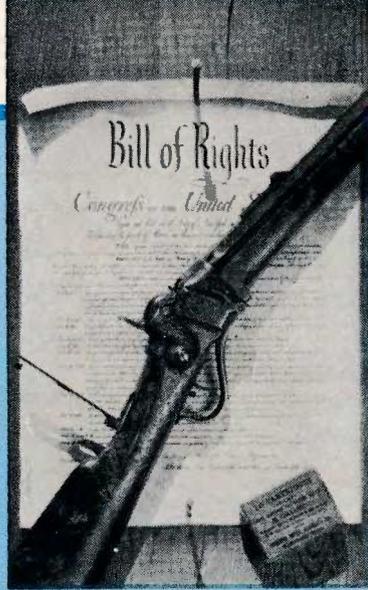
TIMES, FRIDAY, JULY 21, 1967

**POLICE STILL SEEK
CARBINE THIEVES**

Few in Middlesex Aware of
Gun Factory's Existence

Most of the Carbines still are missing despite an intensive search after the rioting subsided.

AN INDICTMENT RETURNED



ON AUGUST 25th, 1967, hundreds of thousands of American citizens were indicted of murder by Senator Robert F. Kennedy. In a speech before the New York City Council, he said that the National Rifle Association, because of its role in lobbying against gun legislation, "will have to take the responsibility for the deaths of many Americans."

THIS IS NOT only an indictment of the NRA and its members, but of every shooter, hunter, or gun collector who has spoken out against restrictive gun legislation. And such an attack on you and I cannot go unanswered.

Reasonable people may find it strange that a hunter in Keokuk, Iowa, may be responsible because a madman in Miami shot four innocent people in a wild shooting spree; or that a skeet shooter in Nevada is responsible because a demented criminal snipes at police from a rooftop in Newark, New Jersey. Yet that is exactly what the Honorable Senator is saying. How strange, indeed, that the instigator of murder by firearms is not named by the Senator as responsible for his actions. Yet by merely picking up a pen or pencil and writing his legislator in an attempt to protect his Constitutional rights, the hunter from Keokuk and the skeet shooter from Nevada have somehow become as guilty as the man who picks up a gun and shoots an innocent person.

Legislators like Robert Kennedy have laid down the ground rules for this anti-gun, pro-gun battle, and as much as I dislike the idea of indicting innocent persons, these ground rules cause me to ask this: If there are persons, other than the criminal gunmen themselves, who must "take the responsibility for the deaths of many Americans," why not the very legislators themselves who, in their support of strict gun control legislation, continue to attack the symptoms of a social disease rather than the disease itself?

If someone must take the blame for the increased use of guns in crime, why not the many local agencies who "interpret" existing guns laws as a means to completely curtail the availability of sporting firearms to law-abiding citizens? If there were no abuses of existing laws, there would be a lot of pro-gun people who would not take pen in hand to oppose further legislation.

If someone is to take the blame for the sniper fire in urban areas of unrest, why not the governmental agencies who permit seditionists and anarchists to cry out from the streets; "Get yourself some guns and kill the Hunkies.?"

If someone is to be blamed for deaths caused by firearms, why not the courts who permit criminals to roam our streets—either through suspended sentences, probations, or taps on the wrists—only to get guns through devious means, and commit crimes again.

But most important of all, if someone must take the responsibility for the deaths of innocent persons, why not the criminal whose demented mind tells him to pull the trigger of a murder weapon?

Let us ask ourselves but one question. How would all of the proposed gun legislation affect the criminal? By his very nature, he is in the business of breaking the law, and it matters not to him whether it is the law against murder, robbery, or owning an unregistered gun. The only answer we, as legitimate gun owners, can support is not in the lesser laws as proposed by Senator Kennedy, Senator Dodd, and other, but in greater laws aimed at the criminal use of guns. How many robbers are made to pay for speeding violations when chased from the scene of their crime? How many snipers will receive additional sentences for shooting within city limits? The only reasonable and logical solutions are strict laws, with severe penalties, for the criminal use of firearms—not indictments of the law-abiding majority for the crimes of the lawless minority. *J. Rakusan*



The CETME Sport, distributed by Mars Equipment Corp., has scope mounts which permit use of iron sights.

THERE HAS BEEN a phenomenon in the commercial sales of "sporting" rifles in the past several years that no one has been able to explain. This is the increasing demand in the U.S. for military autoloading rifles; not for sporterizing, not for military collections, but for use as big game hunting rifles and large bore plinkers. The CETME Sport is but one example of this type of military weapon which has found a place among some American shooters, the story of how it made the turn from military to sporter is an interesting one.—*Editor.*

One of the first steps taken by Spanish officials in planning their current industrial expansion of the economy was the creation of a special facility, concerned with the design and development of new weapons, the adoption of these new models to the most modern methods of production, the improvement of manufacturing techniques, and progressive improvement of existing weapons. This facility is the "Centro de Estudios Tecnicos de Materiales

Exspeciales" (Center for Technical Studies of Special Materials), abbreviated to the initials, CETME.

The most notable development of CETME was their Assault Rifle. The first efforts of this design were perfected in the form of an Assault Rifle intended for a cartridge of special design. While the form of the cartridge case and its capacity were not too different from the German 7.92 Kurtz, the bullet used was quite unusual, in that it had a pointed forward ogive of markedly longer and more gradual form than any projectile previously proposed for general use in small arms. Inasmuch as this bullet was partially composed of an aluminum nosepiece, and was unusually light in comparison to standard 7.92mm service bullets, it was much longer. This combination of an extra-long bullet and a short cartridge case gave 7.92 CETME ammunition distinctive, and immediately recognizable appearance.

The effect of this radical bullet was to show greatly improved velocity retention. This meant that the retained

velocity of this bullet at longer ranges put it more in the class of the standard ammunition used by the major powers in the Second World War, rather than the submachine gun or short-cartridge Assault Rifle class. At the same time, the lighter bullet weight and propellant created relatively mild recoil. A weapon firing this ammunition, therefore, was much more controllable in bursts of automatic fire (or in rapid semi-automatic fire) than one using ammunition in the .30-06 class, while possessing an effective range greater than that of weapons using ammunition such as the 7.92 Kurtz or the current 7.62mm Russian Assault Rifle cartridge.

At this point, however, (the 1950's) it had become apparent that Spain's defense policy could be more closely coordinated with those of its European neighbors, and the United States. Spain and the United States entered into Treaty arrangements providing for use of Spanish bases in connection with NATO defense responsibilities assumed by (Continued on page 57)

THE CETME -Military To Sporter

By H. B. YOUNG



CETME engineers at work in the factory. >

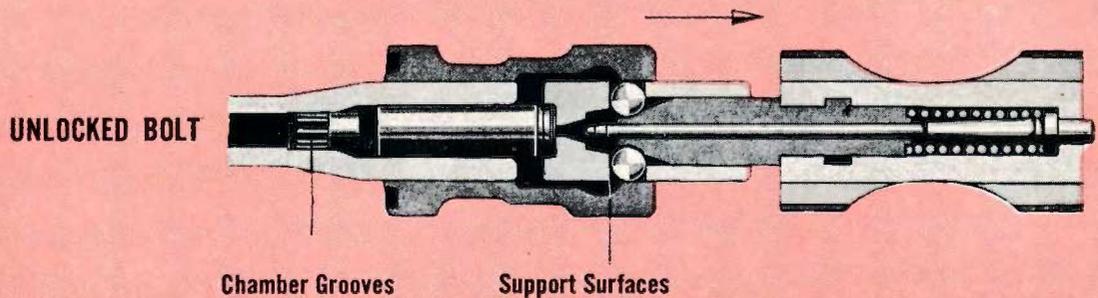
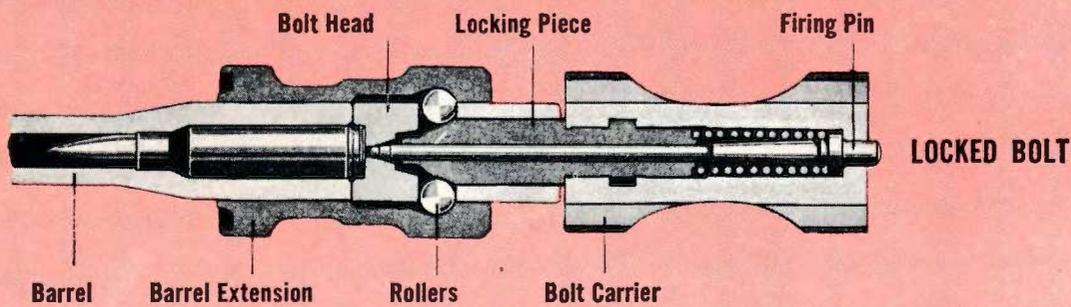
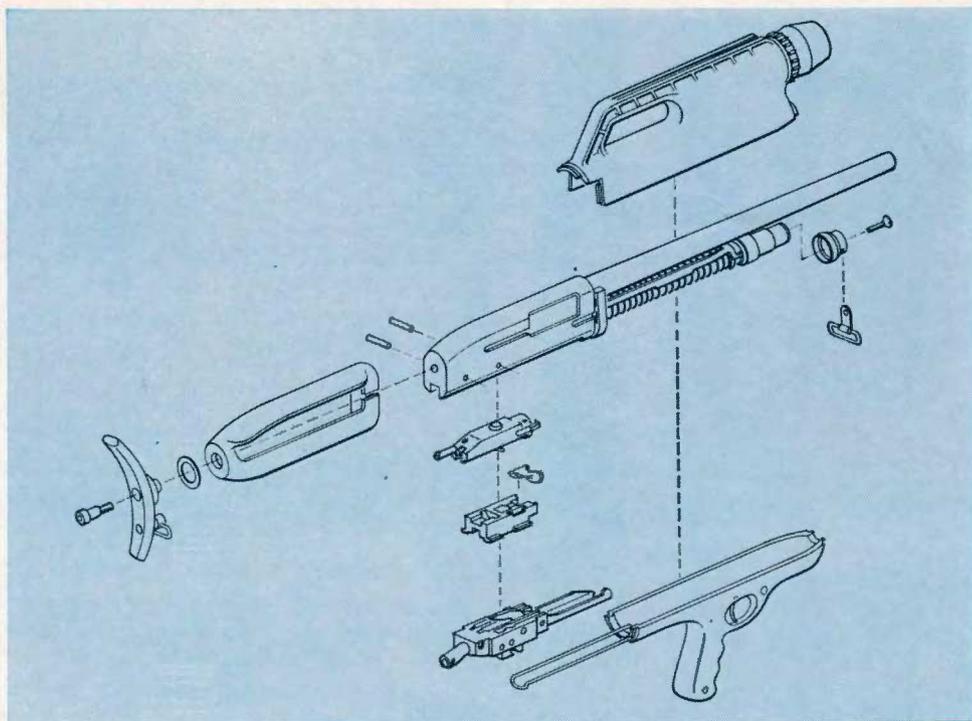


Diagram of CETME action locking system.



GUNS and the LAW

HIGH STANDARD MODEL TEN



SPECIFICATIONS

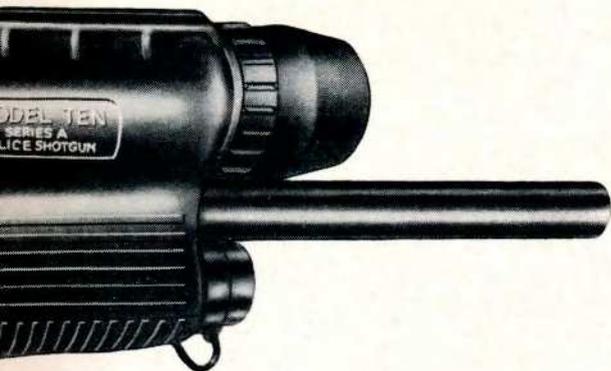
Action: Gas operated, semi-automatic.
Length Overall: 27"
Barrel Length: 18"
Ammunition: 12 gauge,
2 $\frac{3}{4}$ " Magnum and High Brass.
Capacity: 5 shots;
4 in magazine, 1 in chamber.
Weight: 7 pounds.
Price: On request, to law
enforcement officers only.



By

COL. REX APPLGATE

POLICE SHOTGUN



THE "SAWED OFF" SHOTGUN, made famous in the day of the pony express, is rapidly becoming standard equipment in the majority of police departments throughout the nation. More and more police patrol cars are now equipped with the riot shotgun, held in place by a gun lock on the car dash. Riot shotguns, in large quantities, are now part of the reserve combat equipment, for special issue, in most progressive police departments. During recent riots in Newark, Detroit and elsewhere, large numbers of police were armed with shotguns. In some cases it was obvious that every, and any type, shotgun available was in use, including some that were obviously taken from shelves of sporting goods stores.

Police reasons for use of the riot shotgun are varied but tactically proven, some are: variety of loads from rifled slugs to birdshot; maneuverability; lack of long range lethality when innocent bystanders are involved; deadly effectiveness at close range; and the psychological and deterrent value when the criminal is looking at the muzzle end of the weapon.

High Standard has introduced a new concept in riot shotguns, the Model Ten. But to understand the significance of its notable features, we must first study the police functions, the previously available riot guns, and the present and future needs for this type of weapon.

Heretofore, police officers have usually been forced to rely only on their sidearms in riot and routine duty. But

the trend of the times is toward more violence, and the armament must be correspondingly "beefed" up. Routine police duty involves; frisking prisoners; applying handcuffs; manhandling dangerous or drunk prisoners; approaching and searching automobiles with potentially dangerous criminals inside; stakeouts; patrol of dimly lighted areas and alleys; searching out snipers in riot torn areas; use of the bull horn and mike while keeping suspects under surveillance, and many other situations. Most of these actions require one hand to control the weapon and the other to use for the situation encountered. In dark alley situations, one hand holds the flashlight, the other hand is free to draw the gun, if indicated. Unfortunately many times a quick draw attempt by the officer is "too little, too late."

Riot shotguns supplied police by commercial gun producers are merely double, pump, or semi-automatic sporting models with a cut off barrel; the shorter barrel length aiding in maneuvering the weapon in confined areas and better adapting to general law enforcement use. These guns are furnished police incidental to the manufacture of the arms for hunting, trap, skeet shooting, and other peaceful pursuits. They are not guns originally designed for, and with police needs, foremost in mind.

The riot shotgun, regardless of its origin, is a greatly superior, all around, weapon to the submachine gun, which is favored abroad. Few US departments train, or are equipped, with "Chicago Typewriters" of Roaring 20's fame.

Likewise, modern police patrol cars are merely slightly altered versions of standard passenger automobiles. Their curved windshields, overhung dashboards, and small door windows are not at all conducive, to fast, safe, riot gun handling. It is difficult, and sometimes downright dangerous, for a police officer to take the gun from the upright position in the gun lock, rack a round in the chamber, and get the gun into a firing position, in an emergency. More than one police light on the roof of a patrol car has been blasted off during this process.



Efficient one hand operation is a big advantage for the police officer who must go through closed doors.



The High Standard Model Ten can be used in any situation which calls for use of a riot gun.



Basically, even the present day, riot shotgun is still too long. The sporting gun design is such that two handed use is required, and it cannot be fired accurately with one hand—either from the shoulder, car, or hip position, and certainly not from a car in a hot pursuit situation.

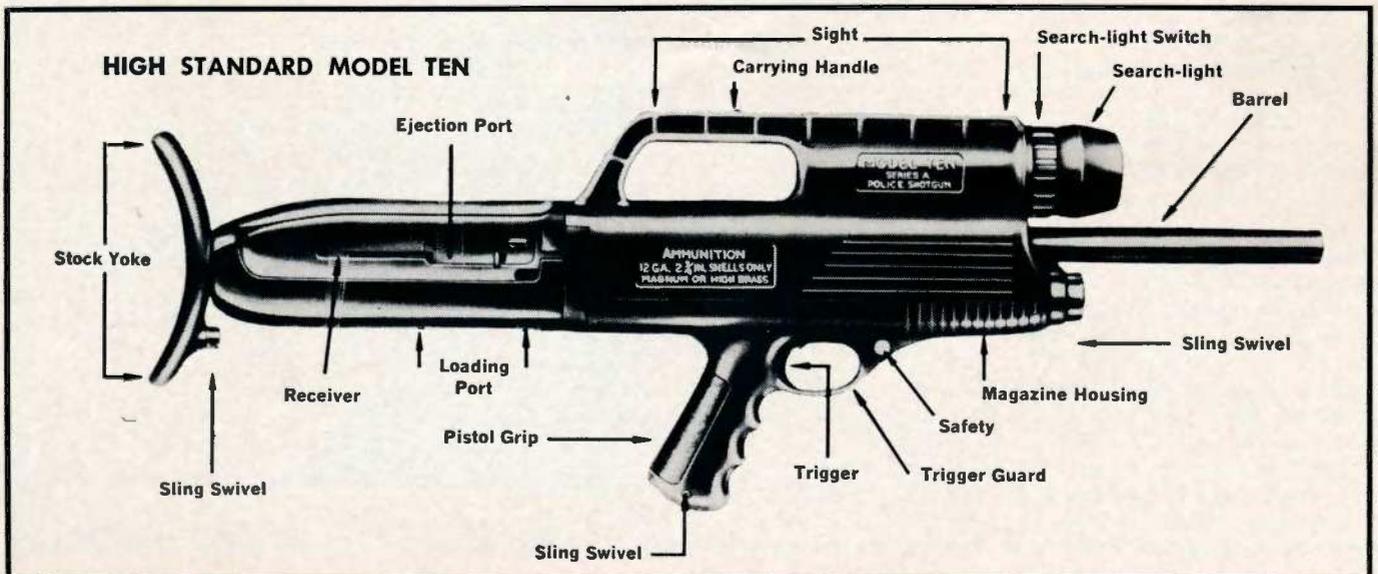
About six years ago, with all the above facts in mind, Sergeant Al Crouch of the Santa Monica, California, Police Department began to design a shotgun especially tailored for police use. It was obvious that for his purpose a semi-automatic action would have to be used.

Fortunately, during recent years, the semi-automatic type shotgun, combined with the advent and use of plastic hull shotshells, has become a very dependable, jam-free weapon. Earlier objections to police use of the semi-automatic type weapon, because of a poor reliability factor, are no longer valid. In fact, many departments are now converting from the "pump" type to this more modern version of a police arm.

After a lot of time, money, and experimentation, the first prototype model was whittled out. It was tested, cussed, discussed, and generally exposed to police in the Los Angeles area about two years ago and it was during this period that I first saw the weapon and became interested in it and its potential.

If you are a designer of a new type weapon and try to get a major firearms manufacturer to produce and market it, you are in for a lot of frustration and heartaches. In this case, the dice were pretty well loaded against such an arrangement because the market was considered to be a very limited one by many arms manufacturers. Finally, Crouch's persistence and faith in his weapon, combined with an awakened and genuine police need due to an escalating crime and riot wave, paid off. He was fortunate to make contact with "Wild" Bill Donovan, V.P. in charge of marketing of the High Standard Manufacturing Corporation. Bill, had kept an eye on the increasing sales of conventional riot guns, and being the son of a policeman and a "Cop" at heart, he took the plunge and the Model Ten was born. The time-tested automatic action of the High Standard Supermatic was found to be especially adaptable to the new police configuration, and for the first time the law enforcement officer has shotgun firepower *with handgun control and maneuverability*.

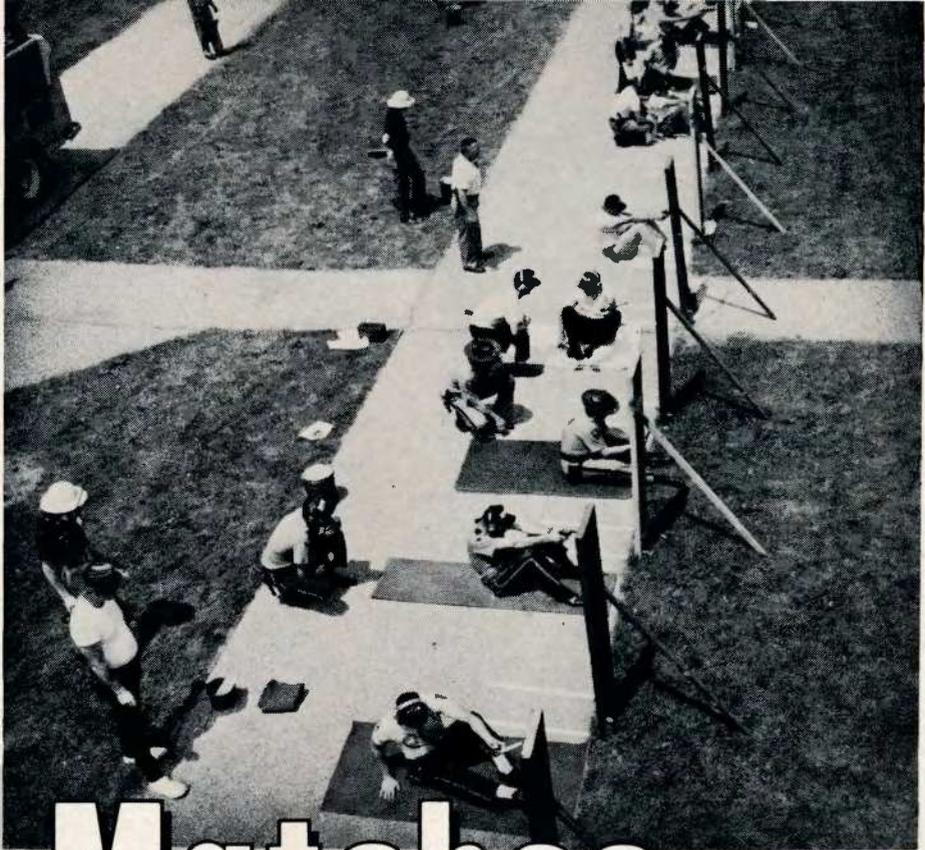
The Model Ten fills a combat void, long vacant, and could not have become available (Continued on page 56)





Shot at Indiana University's range in Bloomington, Indiana, the Police Combat Matches draw entries from all over the land.

By A. ROBERT MATT



Police Matches -

COMPETITION OR TRAINING



EACH YEAR since 1959, top police shooters have gathered at Indiana University to determine a national combat shooting champion. With each passing year, the competitor list has grown in size. Likewise, the number of cities and states represented at the matches has also increased. The 1967 National Police Combat Matches had 286 individual shooters representing 93 police organizations.

The first matches were known as the Colt's-Indiana University International Police Combat Pistol Matches. They began in 1959. Under the sponsorship of Indiana University and Colt's, the matches were run four years. In 1962, two combat matches were run—one by Colt's and Indiana University and one by the National Rifle Association and the University. Since 1962, the National Police Combat Pistol Matches have been run under the joint cooperative efforts of the NRA and Indiana University.

I was the Executive Director of the first match and, therefore, distinctly remember the primary reason for developing a competitive combat pistol shoot for police. In a word, it was *training*. There is no doubt that mis-

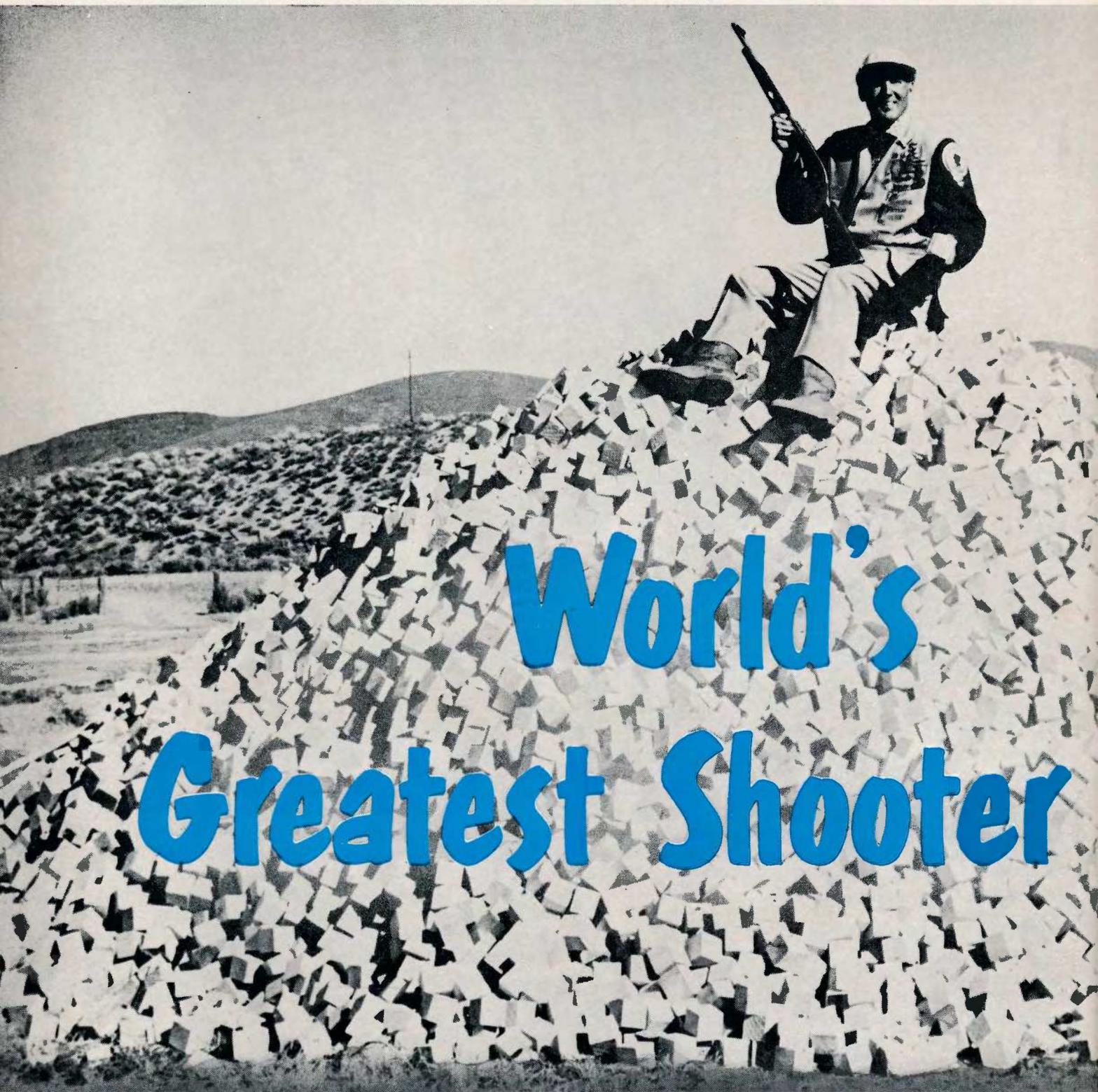
sion was accomplished. As a result of those first matches, many police departments instituted combat shooting, training programs. Certainly, many of these programs would never have been started had it not been for the competitive combat matches to decide a national champion, plus prestige that went with shooting in national police matches.

At the 1967 National Police Combat Matches, I asked many of the well-known past champions and competitors if the idea of training had been replaced by the desire to win. Just about everyone I spoke to agreed they were there to win. For the purposes of the matches, at least, the emphasis was not on *training*, but rather on *competition*. Everyone hastened to add that an intensive amount of training is necessary to be able to compete in the National Police Combat Matches. However, it's a different style of training.

Today, it's all competition in the big matches. New training ideas, new positions, new methods are a mere residual benefit of the big shoot. Shooters are there to *win*. To do so, they must take advantage of every opportunity that will give them an edge on

another competitor. The rules clearly state what positions may and may not be used. Over the years, some of these rules have been modified or changed to accommodate new techniques. Let me cite an example.

Take a look at the hip shooting position. In the old days, a shooter loaded his revolver with five rounds, holstered and waited at an "at ease" position for the whistle signal to commence firing. (Back then, the course of fire was 50 rounds. Each time a shooter loaded, he loaded with only five rounds. Then some bright boy pointed out that there are six holes in the cylinder of most revolvers—the gun should be loaded with six cartridges and the course should be fired with a total of 60 rounds. That, too, was an innovation.) On the signal to commence firing, the shooter drew and fired his weapon from the hip. The elbow was tucked in close to the hip with the forearm parallel to the ground. All shooters used a one hand grip on the gun. Today, the good hip shooter, after having loaded six rounds, puts himself into a position of readiness with the shooting hand poised over the holstered gun (Continued on page 64)



World's Greatest Shooter

**BREAKING A RECORD WHICH STOOD FOR
HALF A CENTURY, TOM FRYE, WITH 100,000 SHOTS AND ONLY
SIX MISSES, IS NOW KING OF THE HILL**



WHO IS THE ALLTIME world champion rifle shot? That is a good question and you will find any number of self-appointed experts who will put forward their candidate for this exalted post.

There will be those who will tell you that Buffalo Bill must be the alltime, all-around top gunner. And others will nominate Davy Crockett, or maybe Dan'l Boone. You can get almost as many answers to this question as you can round up people to query.

It used to be in the halcyon days before the turn of the century that we had a whole gaggle of world champions. These fellows made no bones about being the kingpin. They traveled about the country wherever a crowd could be gathered, some fired indoors, some outside, and they put on exhibitions of shooting skill. At one time we had no less than seven world champs! And an interesting angle to these claims was that each topflighter was pretty careful he never crossed the trail of any of his competitors!

They called these exhibitionists "trick and fancy" shooters and this sobriquet seemed just especially fitting. Buffalo Bill, one of the headliners, busted his glass balls tossed in the air by a well-trained assistant with an old .44-40 bored out to shoot shot. The legerdmain of some of his compatriots was on a par.

While it was perfectly okay to be billed as the "Champion of the Universe" as one modest gunner termed himself, it soon became apparent that some kind of an elimination was going to have to be staged to sort out all the claims and the claimants. About this time some thinking type developed the glass ball. These ranged in diameter from 2 to 3 inches and were sometimes filled with feathers. When struck the cloud of white plumage produced a crowd-satisfying display. Sometimes these balls were hand-thrown; other times they were heaved by the use of a simple and somewhat crude trap. This trap was capable of only a vertical flight direction and was a far cry from the clay target traps used today.

The first record we have of long run tallies on the glass targets was turned in by an Illinois duck gunner named A. H. Bogardus. This wild-fowler shot at 1,000 glass balls on the fourth of July, 1877, at Lincoln, Ill. He hit 972. This looks pretty good on the face of it but there is a joker in the deck. Bogardus was using a 12 gauge duck gun. Later the same year he tried again and this time in Cincinnati, managed to clobber 981. A couple of years later he managed to raise the ante considerably, firing at 5,000 targets and missing only 156.

Annie Oakley, the best-known woman exhibition shooter the world has ever seen, got into the act. In 1884, she shot at 5,000 balls and missed 228. This wasn't as good as Bogardus but it was pretty amazing for all that, for Annie, who wasn't much for size or muscle, shot the whole 5,000 targets during a single session. Her shotgun was a sixteen gauge.

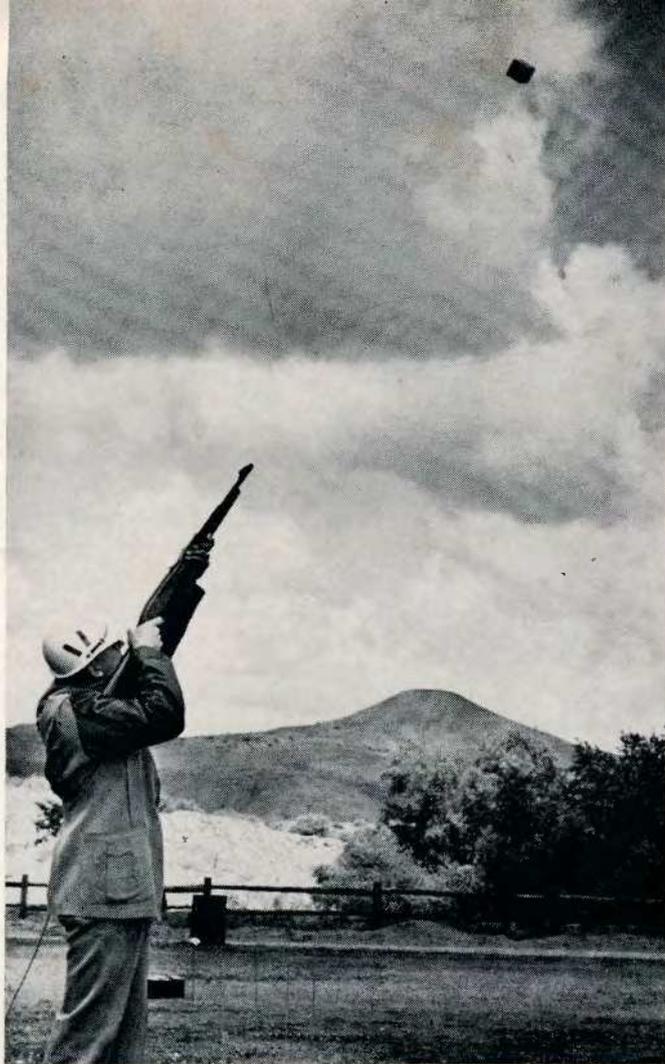
This was pretty good but it remained for Dr. A. H. Ruth to really nail down the title of champion. He banged out 1,000 shots at the glass baubles and failed to connect with only 16. Instead of a scattergun he fired a pair of .22 repeaters. This was in 1885. Annie, not to be denied, switched from her faithful 16 to the twenty-two rifle and had an exceptionally good run. She hit 943 of the spheres out of the 1,000.

The other trick and fancy gunners were watching from the sidelines while this shooting was going on. They were pretty jealous of the gunners who were making the head-



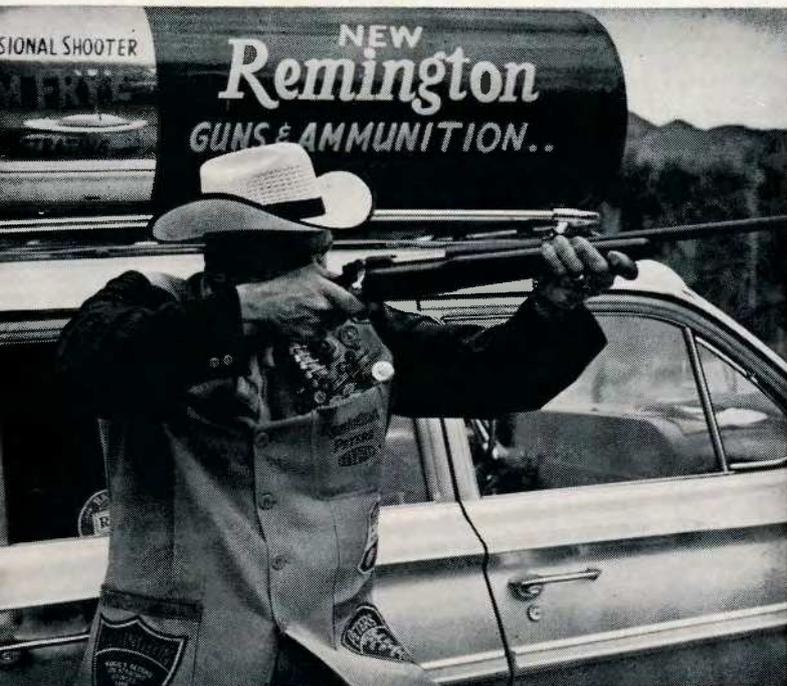
Charles Askins

By **CHARLES ASKINS**



Frye makes exhibition tours through Montana, Wyoming, and Idaho, showing how to bust wooden blocks.

WORLD'S GREATEST SHOOTER



Above: Frye is also a fine big game shot. Below: Beside Frye's Nylon 66 are two sorts of aerial washer targets.

lines and too this hurt their respective claims to the "world-champion" honors. Among these marksmen intently observing the powder-burning of Bogardus and Annie Oakley was a flamboyant character named Doc Carver. Doc Carver, like the Tombstone gunfighter, Doc Holiday, was an honest-to-god doctor—a dentist—but equally like the highly lethal Holiday he seldom spared the time from his cap-busting to pursue his profession.

At any rate Carver, one day pulled his hat low, hitched up his breeches, spat on his palms and said to his assistant, "Let 'er go." The glass ball climbed upward and arched over abruptly. The little .22 repeater spat and the fragile target burst into flinders.

Ten days and 60,016 shots later, Carver called a halt. He had shot from 11 a.m. until 11:30 p.m. each day. He was tuckered, he admitted it. But he was jubilant. He was the new world champ, the simon-pure undisputed Rifle No. 1 of the World. Of course he had missed 4,865 of the winging spheres. But then who had ever shot at 60,000 tossed round globes before and hit 55,151 of them?

The next year, it was in '86, Carver decided he could better the mark. He again shot at 60,000 balls and this time missed only 650. This was done with 10 rifles, .22 caliber, and was banged out in 6 days. This meant the redoubtable dentist shot at 10,000 targets daily, quite an athletic feat apart from the good marksmanship.

Carver then went on a tour, both in this country and abroad. He put on shooting extravaganzas before English royalty and toured Germany where the Kaiser praised him and offered him a spot as a shooting instructor in the German army. Carver declined. He was the world champion and in high demand wherever he appeared.

This was all very well until a fellow, an utter unknown named Bartlett, got all wound up out in Buffalo one day. This laddy-o shot at 64,017 composition balls, each 2¼ inches in diameter, and after a total of 144 shooting hours found he had hit all of the hurtling targets save 280. This knocked the Carver image all to smithereens. Doc never essayed to better the Bartlett mark. And, interestingly, Bartlett who was not a tricks & fancy shooter but strictly an amateur, was content to rest on his laurels.

Adolph Topperwein, an exhibition shooter—he put on shows for the Winchester Co. for more than a half century—eyed the Bartlett record. He believed he could better the tally and as a preliminary, a sort of warmup as it were, he fired on 1,000 clay discs. These were 2¼" in diameter. He smashed 955. A short time later he essayed the discs again and this time potted 987. A third trial netted 989. Then by way of diversion he fired (Continued on page 74)



**SMITH'S LONG GUNS HAVE MANY DESIRABLE FEATURES
AND ARE ECONOMICAL TO PRODUCE**



WSSG-1

Smith's single shot shotgun features the same handling qualities as expensive autoloaders.



Working models of WSSG-1 are available in these two styles.

By COL. REX APPLIGATE

THE NEW ENGLAND gun manufacturing industry stretches from Worcester, Massachusetts to Southport, Connecticut. In this industrial complex are literally thousands of small machine shops and sub-contracting, metal working firms, many of them supplying parts to the big gun plants. There are also shops that specialize in making gun stocks, barrels, magazines, and gun sights.

This was the area where W. H. B. Smith traveled and worked during the secretive, gun designing, phase of his career. It was always his contention that it was not necessary to own and operate a vast gun plant capable of making all or the majority of the gun parts of a given model in order to be commercially successful in the firearms business. His designs were built around this concept, so that a minimum of investment in tooling and lead time was required and the excessive manufacturing overhead of the major gun manufacturers (sometimes as high as 500 per cent above actual cost) did not have to be added to the sale price of the finished arm.

The shoulder weapons to be described fall into this low cost, sub-contracting category. Walter's interest was always directed toward the mass market and he confined his efforts to this type of gun trade, always bearing in mind

**Rifle and
Shotgun
DESIGNS
OF
W. H. B. SMITH**



MAN OF MYSTERY



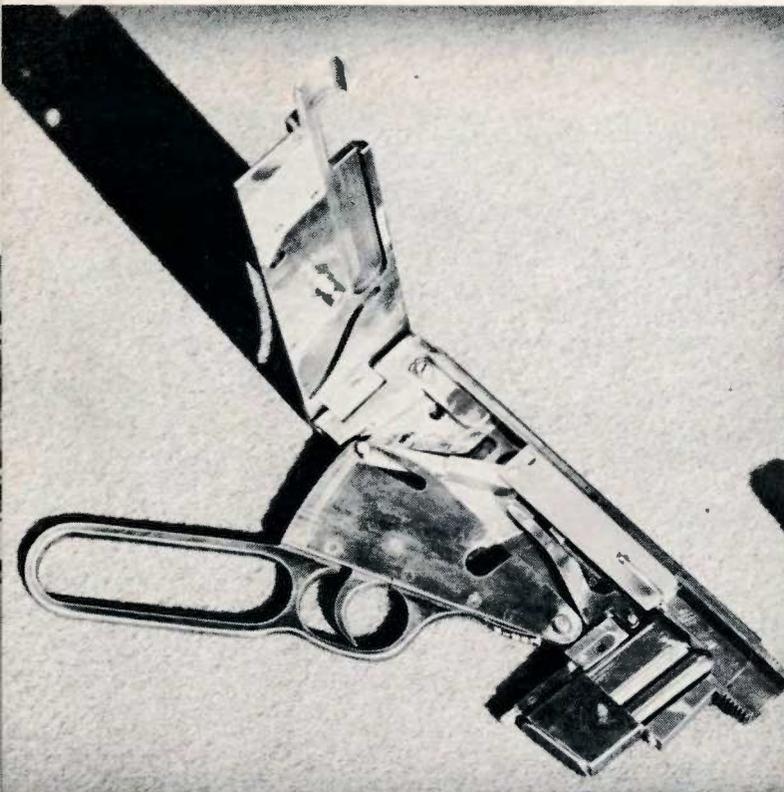
WSR-9

Model is made in .22 LR caliber, but can be adapted to some larger calibers.



WSR-2

Short throw lever action rifle shown here with box magazine. See photo below.



WSR-2

Among the action design features of this lever action rifle are: full sear disconnect safety as well as hammer block safety. In addition, mechanism is inoperable within one degree of action locking.

that just because a weapon was inexpensive did not mean it wasn't a *good*, reliable one. He was interested in design of military weapons with a view toward actual low cost manufacture, but only in the writing sense. The firearms described here were the result of an interest of a limited, commercial nature.

Tooling, costing tens of thousands in comparable type, commercially produced models, was, in his opinion, a much too expensive way to build guns. He often stated that, where regular gun producers spent thousands to tool up and manufacture, he wanted to spend hundreds. Expensive management, top heavy sales and advertising costs were an anathema to him. Interest was always in a low production cost item that would and could be sold in quantity. Like the handguns described in the preceding article, his shoulder arms were designed for manufacturing methods using the most modern low-cost techniques, and designed so that they could be assembled mostly by unskilled personnel. Barrels and stocks were to be purchased from other suppliers and final assembly done using low cost labor in low-overhead locations.

When I was a small boy, the magazines that catered to farm readers were filled with ads describing how you could own a .22 single shot rifle by selling 50 cans of "Cloverine" salve or amounts of seed packages. Many a small boy earned his first gun in this manner. Prices of single shot .22 caliber rifles, during that period, ranged from \$3.50 to \$10.00.

Times have changed, the purchasing power of the dollar has decreased, wages are higher and cost of marketing has sky-rocketed. Today, a .22 caliber single-shot rifle costs around \$20.00 and seems, out of all proportion to reality, in spite of the changed economy. This was Walter's opinion, in which many will concur. At the



WSR-5

This single shot .22 features an action with all the parts of low cost stamped metal; a simple, safe and strong design.

time of his death he had designed a .22 caliber single shot for the low cost, "seed catalog, punch-board" premium market which he contended could be made for a substantial profit, sold in quantity to a marketing outlet, and still retail for less than \$10.00.

The WSR-5 single shot, .22 caliber rifle was his answer to the high cost of U.S.-made single shots. Surveys made in the late 50's indicated that there was a dormant mass market of at least fifty thousand such rifles a year. Nothing has changed since. Today, you can't buy a BB gun for much less than \$10.00. The Smith design model is available and is simple, safe, and strong . . . all parts are made by screw machine or from stampings. This one has to be seen to be appreciated and is one of the most intriguing of his weapons. Currently, one foreign import is selling in the \$10.00 category but its metal stock and general configuration does not seem to indicate that it will fill the vast market potential. WSR-5 is also an excellent item for the expert "Indian" trade where low cost, "meat getters" are a must.

The single-barrel, top break shot gun has been, and remains, a fixture on the American market, and in export. We used to call this the "cheap" single barrel, and it was to be found standing in the corner of the barn for use

against pests and predators. Like the single shot .22, such guns are no longer in the \$10.00 to \$20.00 category. The majority of single barrel shotguns on the market are little changed since they were originally designed and marketed over fifty years ago. Some changes in stock design, locking lever location, etc., have been made, but little else. They are now in the \$30.00 retail class.

The Smith approach to this basic arm was typical. Model WSSG-1 is a completely new and unusual design. The profile of the weapon was made similar to that of the most modern type autoloader to create more market appeal. Feel and balance are almost identical to that of the expensive automatic. The action is a solid mass block intended to be manufactured by use of casting and powder metallurgy techniques. The hammerless mono-block construction enables the same action to be adapted to different gauges so that by utilizing the same receiver, various models could be made available, and at the same time permit the inventory of finished parts to be maintained, at a lower figure.

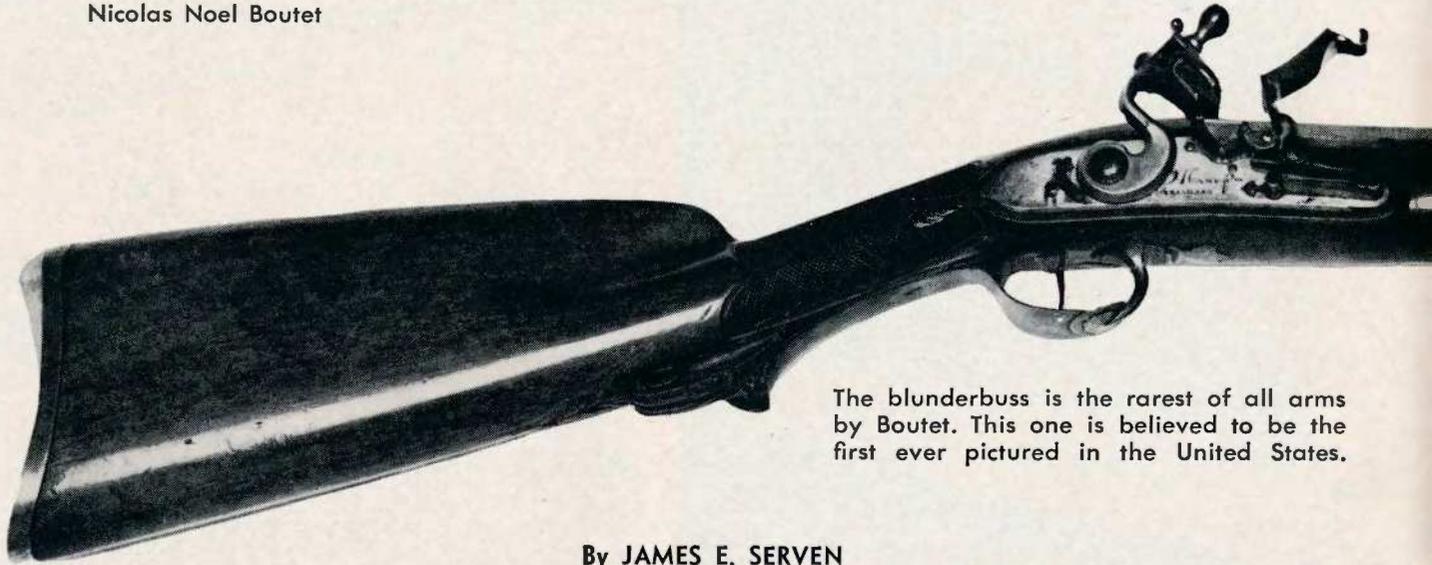
The Smith top break also could be marketed in a full range of prices, from inexpensive top-break to a full ribbed trap model, as illustrated. Cost figures surveyed showed that the gun could be manufactured from scratch at a figure well below the least extensive single shot now on the market. Several models and production drawings are available. U.S. patent 3,077,045 has been granted on the design.

The past and current western-style arms craze led Walter to make a completely new approach to the short throw, lever action .22 caliber repeater. Gun people who have seen this model state that it can be manufactured for, from 35-50 per cent, less than other lever action .22 caliber rifles now in production. Low tooling costs, use of die casting, screw machine, and (Continued on page 64)



Nicolas Noel Boutet

ART IN GUN MAKING: The Guns of Boutet



The blunderbuss is the rarest of all arms by Boutet. This one is believed to be the first ever pictured in the United States.

By JAMES E. SERVEN

IN THE UTILITARIAN SENSE, a firearm is exactly what Oliver Winchester once called it—a machine to throw balls. But skilled artisans of the Old World (and some arms craftsmen of the modern world) have had visions beyond mechanical efficiency, striving to make their creations in metal and wood something of beauty.

When one now thinks of great masters in the gunmaking art down the years, the name Nicolas Noël Boutet must come quickly to mind, much the same as Rembrandt comes to mind when we think of the Old Masters in painting.

It was the custom of many armsmakers in England and other parts of the Old World to have their engraving and decorative silver or gold work done outside their shop by specialists in those particular fields. There were few who had the varied skills necessary to qualify as competent designers, iron workers, wood carvers, silversmiths, and engravers. But there were some. Nicolas Noël Boutet was one who qualified in all these arts.

Born in 1761, Boutet had the advantage of long exposure to the gunmaking trade. His father, Noël Boutet, was gunmaker to the light-horse forces of the King. His father-in-law was also a prominent gunmaker, so the Boutets were a family deeply involved in the arms trade.

Louis XVI became King in 1774 when Nicolas Boutet was thirteen years old. Oppression and rebellion were rife in France as Boutet grew to manhood. During this period the old trade guilds were abolished, with the result that fewer apprentices became available to work at the arms trade. The eventual French Revolution stripped Louis XVI

of his throne. He was guillotined early in 1793 and his unpopular queen, Marie Antoinette, met the same fate some months later.

Although the Marquis de Lafayette was the man of the hour in France, and a great hero among Americans, it was the name of Napoleon Bonaparte, the aggressive Corsican soldier, which began to loom big in French history. So it was that Nicolas Boutet, whose work spoke eloquently for itself, attracted the notice of Napoleon as Boutet had attracted others in high places earlier. In Boutet's quarter century of prominence, from about 1790 to 1815, he served under rulers of France during the Monarchy, the Republic, and the Empire; his elaborate arms were in great favor with kings, emperors, princes, and other important personages. Boutet's deluxe arms were especially favored by France's rulers as gifts to those whom they wished to honor and influence through an elegant and costly presentation.

In 1793 Boutet was engaged by the government to build up France's gunmaking capacity and to establish, in addition to the State Manufactory, a shop for the making of deluxe firearms. This latter endeavor was especially pleasing to Boutet. His beautiful designs and superb workmanship drew widespread attention and led to a long State contract (1800-1818), calling for extension of his work at Versailles, with the title "Directeur Artiste."

Boutet was not only a superb artificer but was an excellent teacher as well, instructing others in the skills of the gunmaking trade. His influence and teachings were to be seen in the work of Le Page, Brunon Manceaux, Gosset,



Two views of a screw-barrel pocket pistol show Boutet's extraordinary metal-working skill. Note several mirror-image inlays.

and others who became prominent in the trade. Among his apprentices was his son Pierre-Nicolas, who joined his father in the work about 1804.

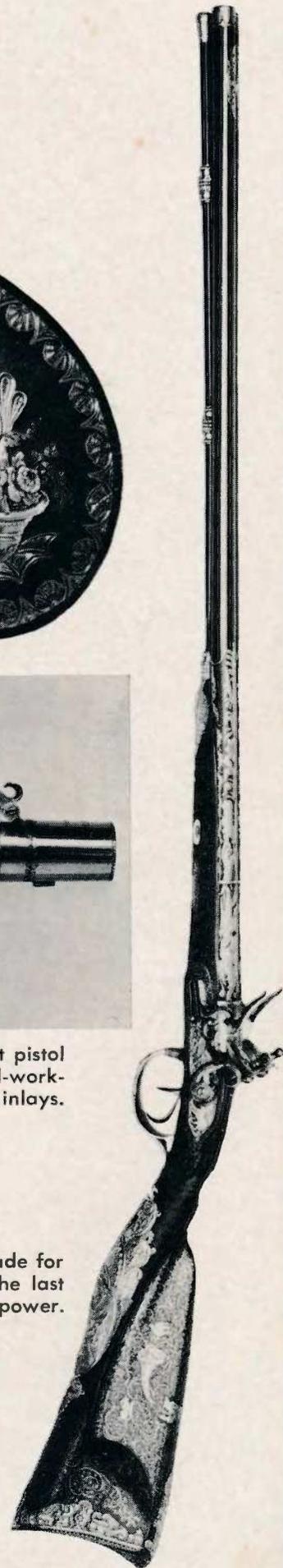
While Nicolas Boutet is said to have made some improvements in gunlocks and to have revived interest in rifled barrels in France, he is best remembered for the perfect precision of his workmanship and the elegance of his deluxe arms.

The cheapest gun from Boutet's workbench cost at least 500 francs, while his richly decorated pieces cost 3,000 to 5,000 francs. Converted into dollars at the present rate, this would set the costs no less than \$100 for the plainest arms up to approximately \$700-\$1,100 for the princely specimens, a lot of money for those days, but a small sum compared to the price they command today.

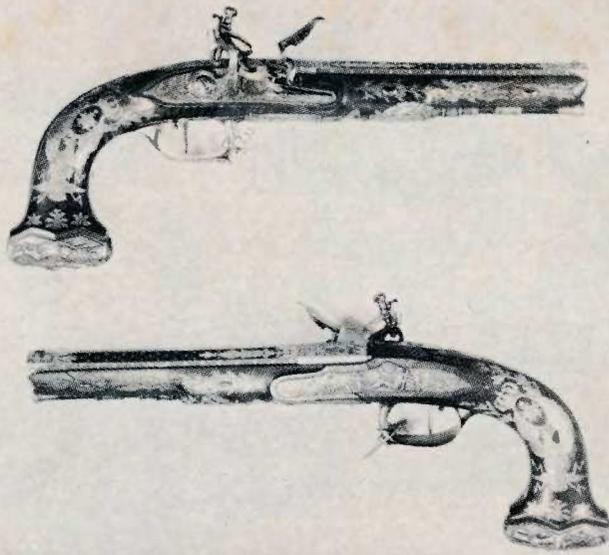
Except for the plainer pieces, a great majority of the Boutet pistols and shoulder arms now in collections show little use. Their decorative treatment was often so exquisite that they were primarily destined to be valuable objects of art rather than weapons frequently carried afield.

These sculptured gold and silver mounted Boutet arms are to be seen in art museums as well as history museums throughout the world—the Metropolitan Museum of Art in New York; Windsor Castle and the Wallace collection in London; the Musee de l'Armee and Musee des Arts Decoratifs in Paris; the Musee de la Porte de Hal, Brussels; German and Russian museums, and exhibits in various countries elsewhere. Some of the most outstanding pieces may be found in private collections such as the William G. Ren-

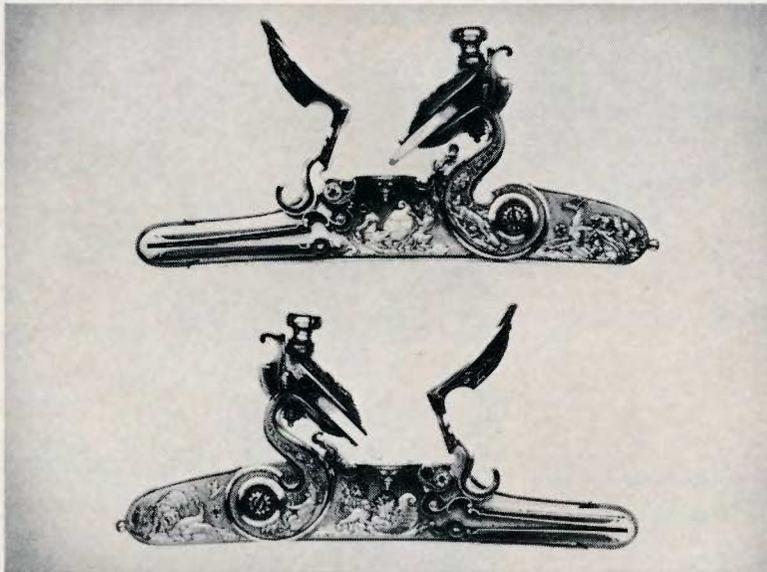
This flintlock fowling piece was made for Napoleon in 1815, and perhaps the last made for him before he lost all power.



GUNS OF BOUTET



Chased and sculptured silver and gold inlay and overlay adorn pair of Boutet pistols made for Napoleon.



These striking locks are from the double barrel fowling piece shown at left. Made for Napoleon in 1801.

wick collection in which there are five pairs of Boutet pistols, some of them highly ornamented and with historic association.

Presentation Boutet arms were given especial treatment and are of particular interest. As an example, the pair of pistols presented by Napoleon to Admiral Rubio of the Spanish Navy were fitted with highly sculptured silver trim in nautical designs—dolphins, anchors, and symbols of the sea. A pair made for Napoleon himself are richly encased in silver and bear the imperial insignia. Appropriate gold and silver designs were applied to the pair of rifled pistols presented to Simon Bolivar, the great South American liberator. Some of Boutet's designs derived their inspiration from Greek mythology, the Medusa head a favorite, and used on pistols for general officers in the French army.

A typical feature of Nicolas Boutet's holster-size or travelers pistols is their rifled octagon barrel with a slightly flared muzzle. Polygroove rifling was usually employed. The breech end of the barrel, even on the plainest pistols to come from Boutet's workbench, were given some form of decorative treatment, and on the deluxe specimens the

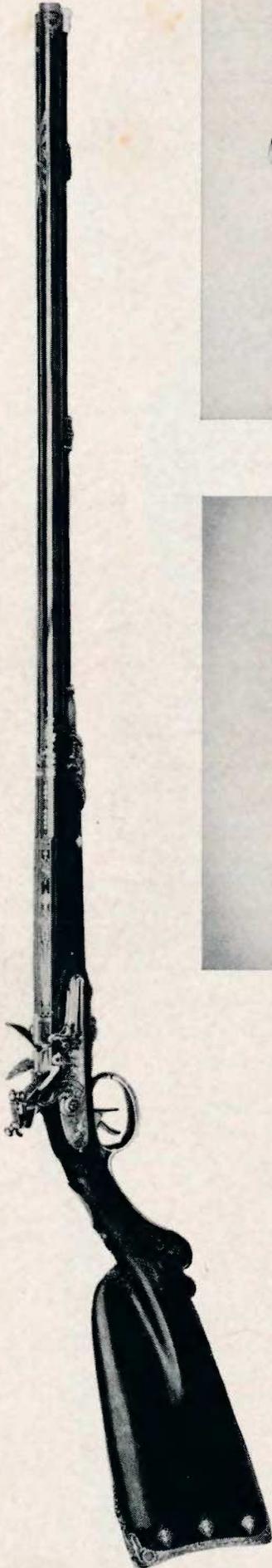
breech was practically encased with gold or silver inlay or overlay in appropriate designs.

The late Leonard A. Heinrich, in association with arms expert Stephen V. Grancsay, once sketched many of the marks which appeared on the beautiful Boutet arms to which they had access in their work at the Metropolitan Museum of Art and elsewhere. Among these marks were various ovals or rectangular insets containing Boutet's and other initials, proud chanticleers, Grecian heads, and various heraldic marks. Boutet's signature, a date, "Directeur Artiste," or "Manufre a Versailles" are sometimes inlaid or engraved in various places on his arms—sometimes inside the lock-plate and sometimes on its face. The barrels were usually so ornate that only the seals or barrel marks were set in the breech flats. In some cases, however, Boutet's name, title, or location would be engraved on either the top flat or the flat on the right side of the barrel.

A feature of Boutet pistol design is a rather sharply angled or right-angled grip, having a flat butt terminal to the wood capped by a convex ornamental metal butt cap. There were a few half-stock Boutet duelling or holster-type pistols, such as those in London's Victoria and Albert Museum, but the majority had full-length forestocks running to the muzzle and held to the barrel by keys or wedges.

Possibly one of the most noticeable design features of Boutet's finer arms is the shape of the cock, which can be described best by the accompanying illustrations. Single set triggers were frequently employed. Boutet worked in a period when the flintlock pistol had reached the zenith of its perfection.

One of Boutet's finest creations, a highly decorated fowling piece illustrated here through courtesy of the Metropolitan Museum (Dick Fund), was possibly the last order filled for Napoleon Bonaparte. It was dated at Versailles in 1815, the year which ended Napoleon's reign.



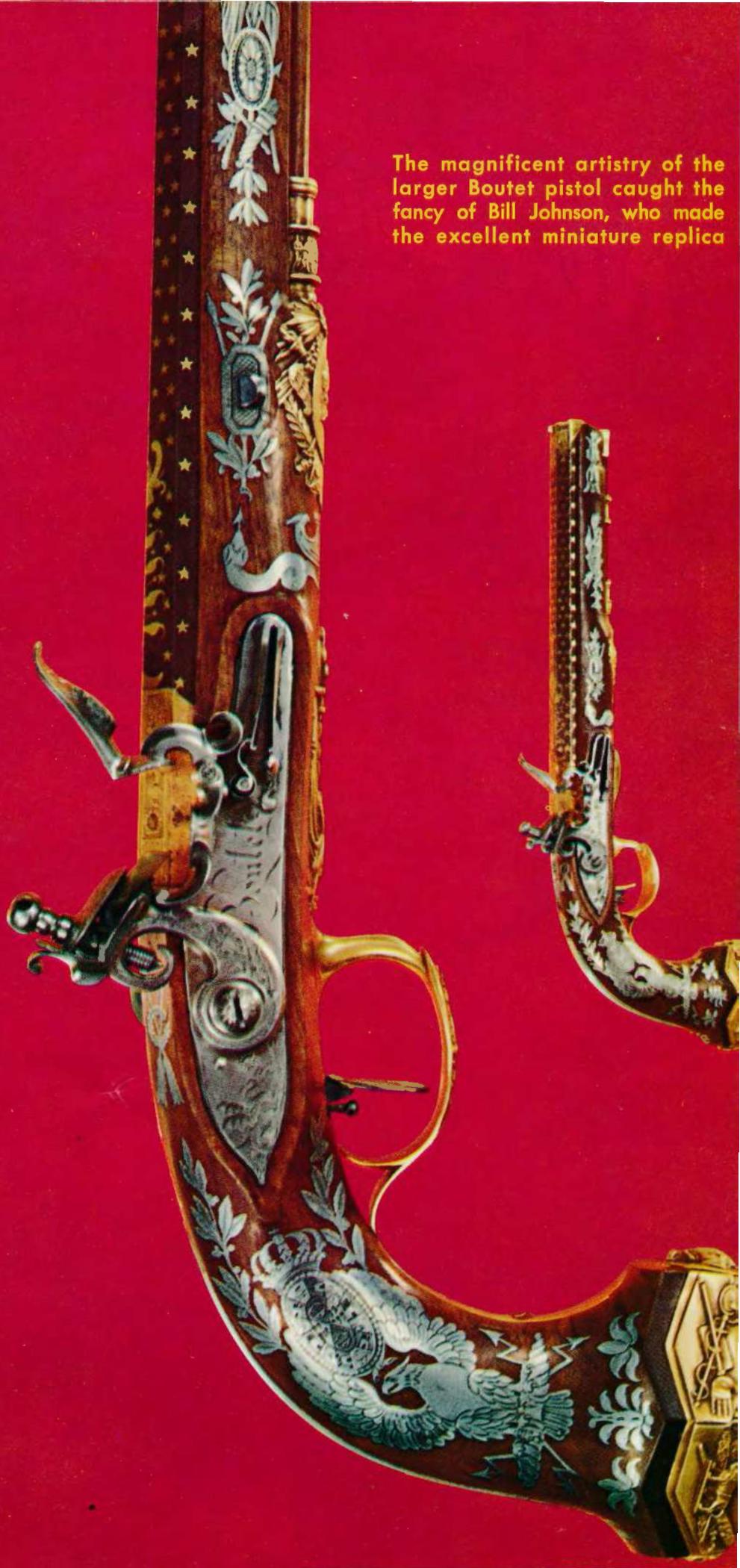
During Napoleon Bonaparte's days of power, when his armies were coursing up and down the European continent, the arms trade flourished in France. Thus it was that the term of Boutet's commission as the nation's "Directeur Artiste" in armsmaking (1800-1818) coincided closely with Napoleon's rise and fall. After a disastrous winter campaign in Russia, Napoleon's power was finally crushed at Waterloo on Belgian soil in June of 1815.

The fall of the French Empire brought with it a horde of Prussian soldiers who entered Versailles and made off with many wagon loads of the French Arms Manufactory's equipment and all the arms they could find.

Even though Boutet's workshop was sacked by the Prussians in 1815, they could not steal his great skills. He was soon in business at 87 Rue de Richelieu in Paris, again turning out beautifully wrought pistols, rifles, fowling pieces, and possibly a blunderbuss or two! The only specimen of a Boutet blunderbuss known to me, however, was obtained by a friend in London twenty-five years ago. On the top breech flat of the barrel, Boutet found space for his usual decorative breech scrolls, the inset seal and a lengthwise inscription "Boutet—Directeur Artiste."

By 1825 or thereabout a substantial demand for deluxe arms had all but disappeared. The days of imperial grandeur and elegant display had been darkened by military defeats and the shadow of the guillotine. The last years of Boutet's life were devoted more to looking backward than forward. He could reflect with satisfaction on the masterpieces he had wrought as France's official director of the nation's finest arms manufactory. As one with sensitive, deep-seated artistic views, Nicolas Noël Boutet could find little enthusiasm for the growing trend toward very plain arms—even though they might be mechanically improved. He died in 1833 at the age of seventy-two, an armsmaking genius who was one of the world's truly great masters in woods and metals.

The magnificent artistry of the larger Boutet pistol caught the fancy of Bill Johnson, who made the excellent miniature replica



New Look of the M-1 CARBINE

By E. B. MANN

OUTSIDE FEATURES ARE UNCHANGED, BUT THE NEW UNIVERSAL CARBINE IS A FAR CRY FROM THE GI WEAPON OF OLD

The M-1 Carbine, when introduced during WWII, received a frigid "step-child" reception from many old-school riflemen, of whom I was one. But Ordnance refused to listen, reminding us that we had also criticized the Holy Cow itself, the Garand rifle.

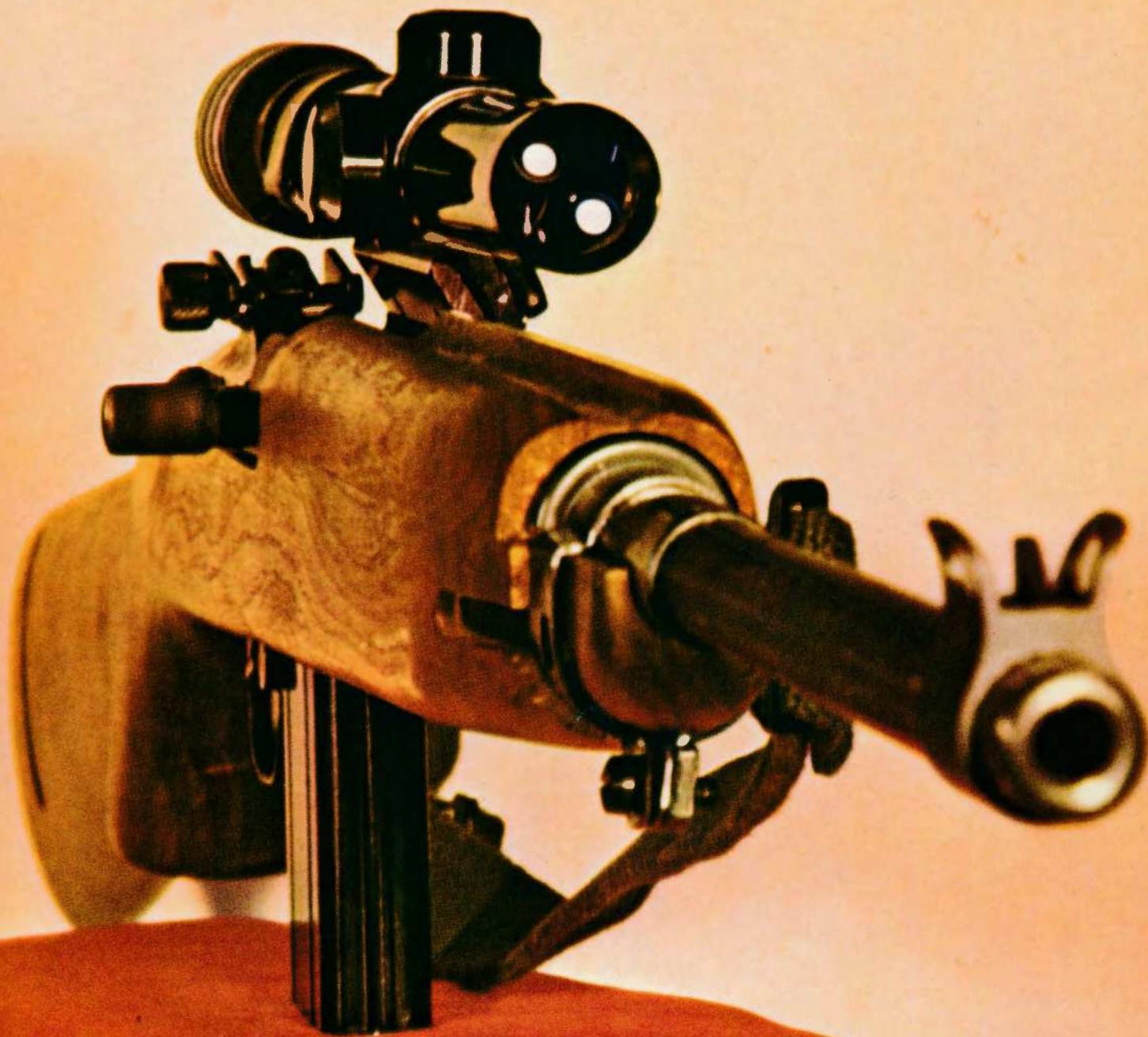
Much of the carbine criticism was a result of the reasons given by Ordnance spokesmen for its invention. "It will replace the pistol, thereby permitting men to be trained quickly to use one type weapon—the shoulder weapon; and it will cut the logistics problem in half, eliminating the necessity of supplying sidearms and sidearm ammunition."

The training theory was sound—if the carbine had replaced the pistol, which it didn't. But the logistics argument was false, since the carbine itself was a second supply problem.

But the carbine itself was a fair target for criticism. Its GI sights were ludicrously inefficient. The proximity of its safety to its magazine release resulted too often in men pushing the wrong gadget, dropping the magazine, and



The Universal "Enforcer," a handgun version of the M-1 Carbine which is popular with law enforcement officers.



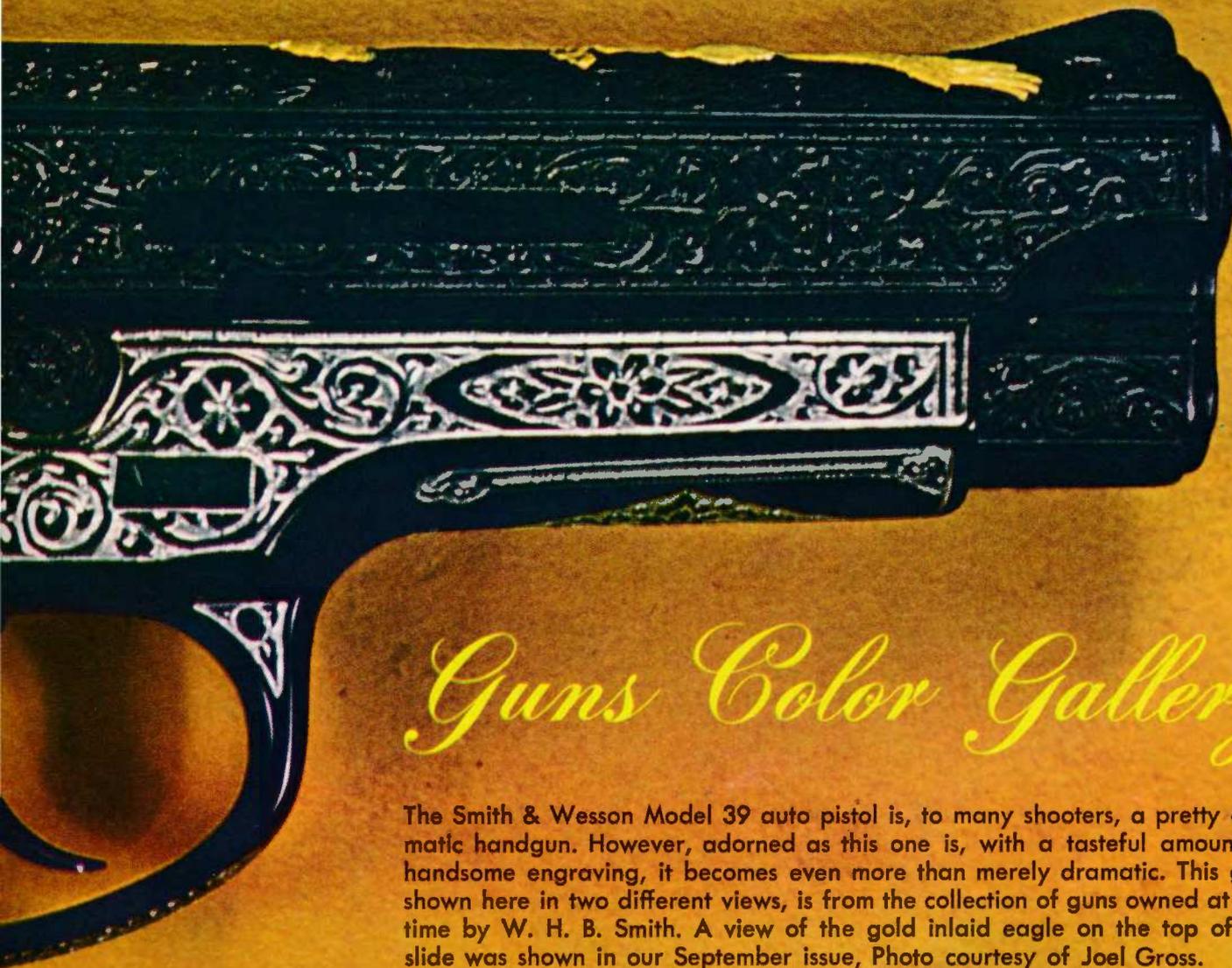
leaving themselves with a single-shot weapon (and that shot still locked against firing!) just when they needed full fire-power. (Later models improved this situation).

You know what happened. The carbine is light to carry, easy to point, as painless to shoot as a .22 rimfire—and 99 out of every 100 of the GI millions who fired it came home singing its praises. Few guns ever had as big or as enthusiastic a ready-made market. Many have eagerly volunteered to serve that market, first with military surplus carbines with welded receivers, and later with guns of their own manufacture using cast receivers and surplus parts. A new and utterly different manufacturing concept, producing a new and utterly different carbine, is that of Universal Firearms, of Miami, Florida.

You hardly need to read between the lines to guess that, when I visited the Universal Firearms facilities, I carried with me an ingrained prejudice of long standing. I came away, if not a complete convert, at least with a brand-new perspective. The Carbine today, as Universal makes it, is not the carbine I remember! It has been re-designed by an unassuming genius named Abe Seiderman, to a simple perfection that makes malfunction almost impossible, and it is precision-made under rigid quality controls and standards that produce, in quantity, sleek-looking and slick-working guns that must be the envy of some of the bigger and older names in the business. This is true of all grades Universal offers.

A design engineer could *(Continued on page 53)*

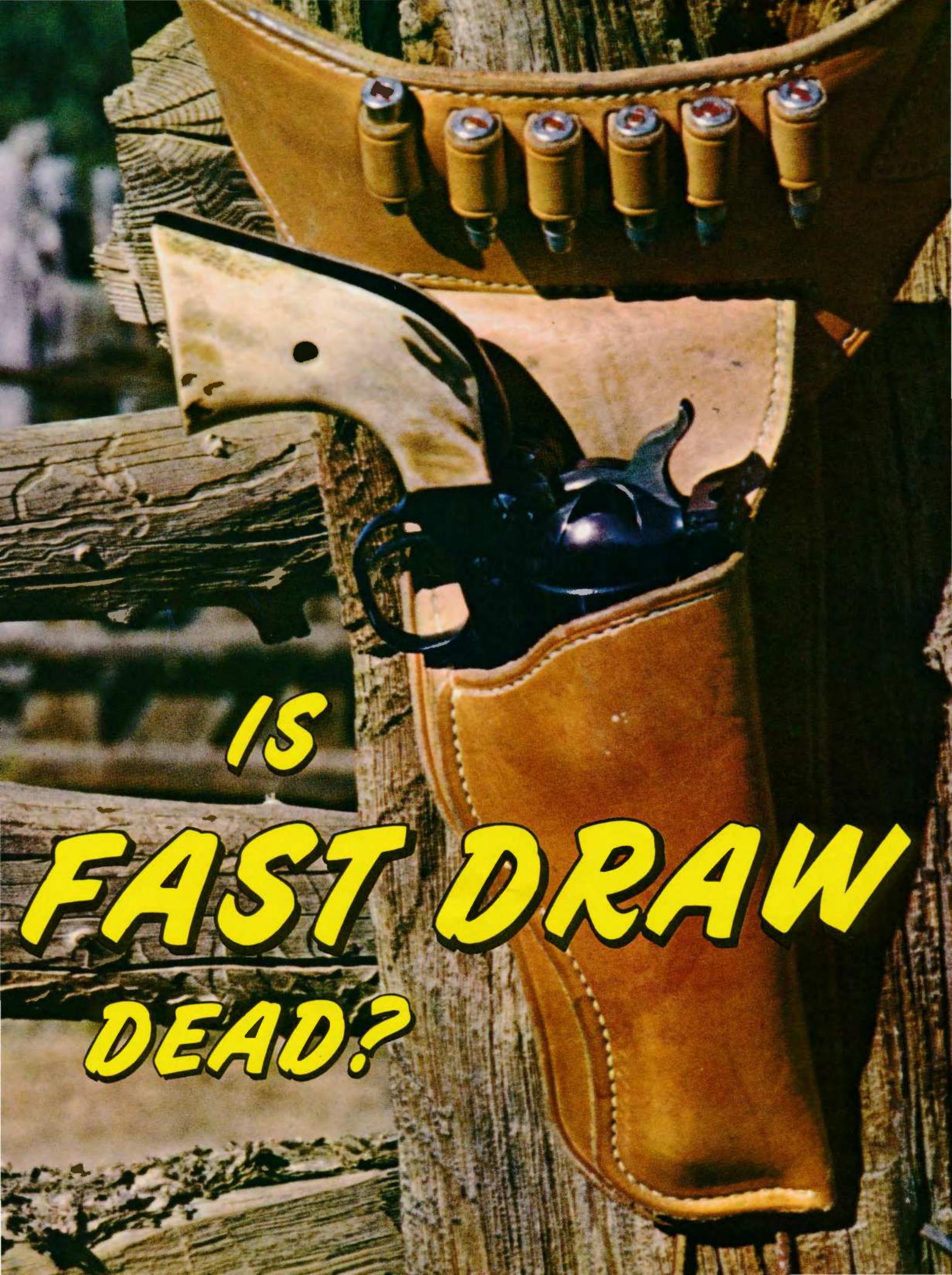




Guns Color Gallery

The Smith & Wesson Model 39 auto pistol is, to many shooters, a pretty dramatic handgun. However, adorned as this one is, with a tasteful amount of handsome engraving, it becomes even more than merely dramatic. This gun, shown here in two different views, is from the collection of guns owned at one time by W. H. B. Smith. A view of the gold inlaid eagle on the top of the slide was shown in our September issue, Photo courtesy of Joel Gross.





IS

FAST DRAW

DEAD?

By JAY CHARLES

WHAT EVER HAPPENED to the sport leather slappers? It was only a short decade or so ago that the hue-and-cry was at its peak—when everyone was “reaching” against the timer, and the goals were published reports of a TV favorite’s speed.

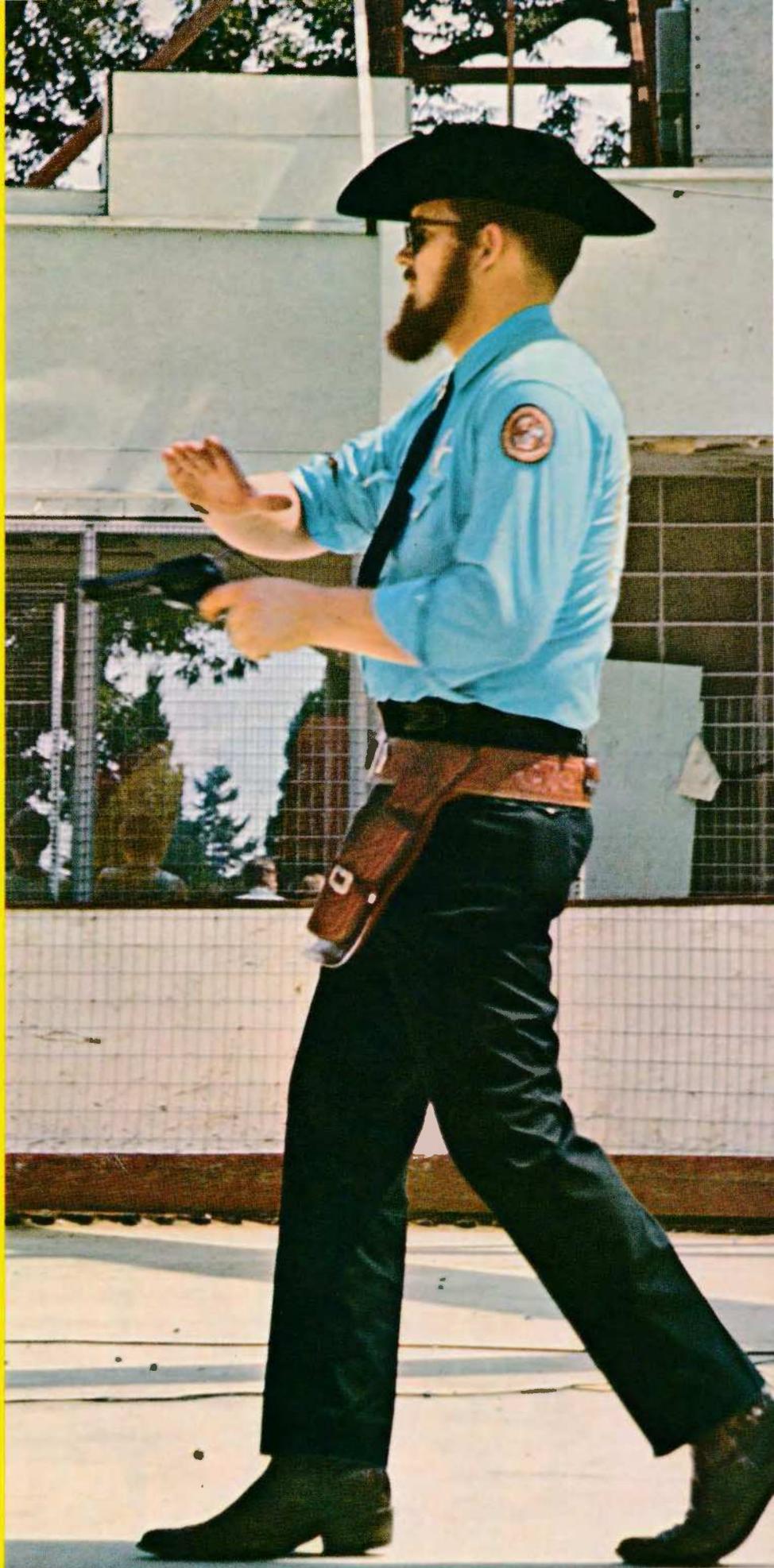
Even the general-interest periodicals and newspapers took notice for a while and gave excellent coverage to costumed “meetings” where modern-day Earps, Mastersons, Hardings and Hickoks shot it out in colorful “Hell-dorado” celebrations. A bonus for the newspapers, of course, was the “filler” they could pick up with some regularity; for hardly a week went by without some free-lancer losing a toe or plowing a furrow down his leg while practicing.

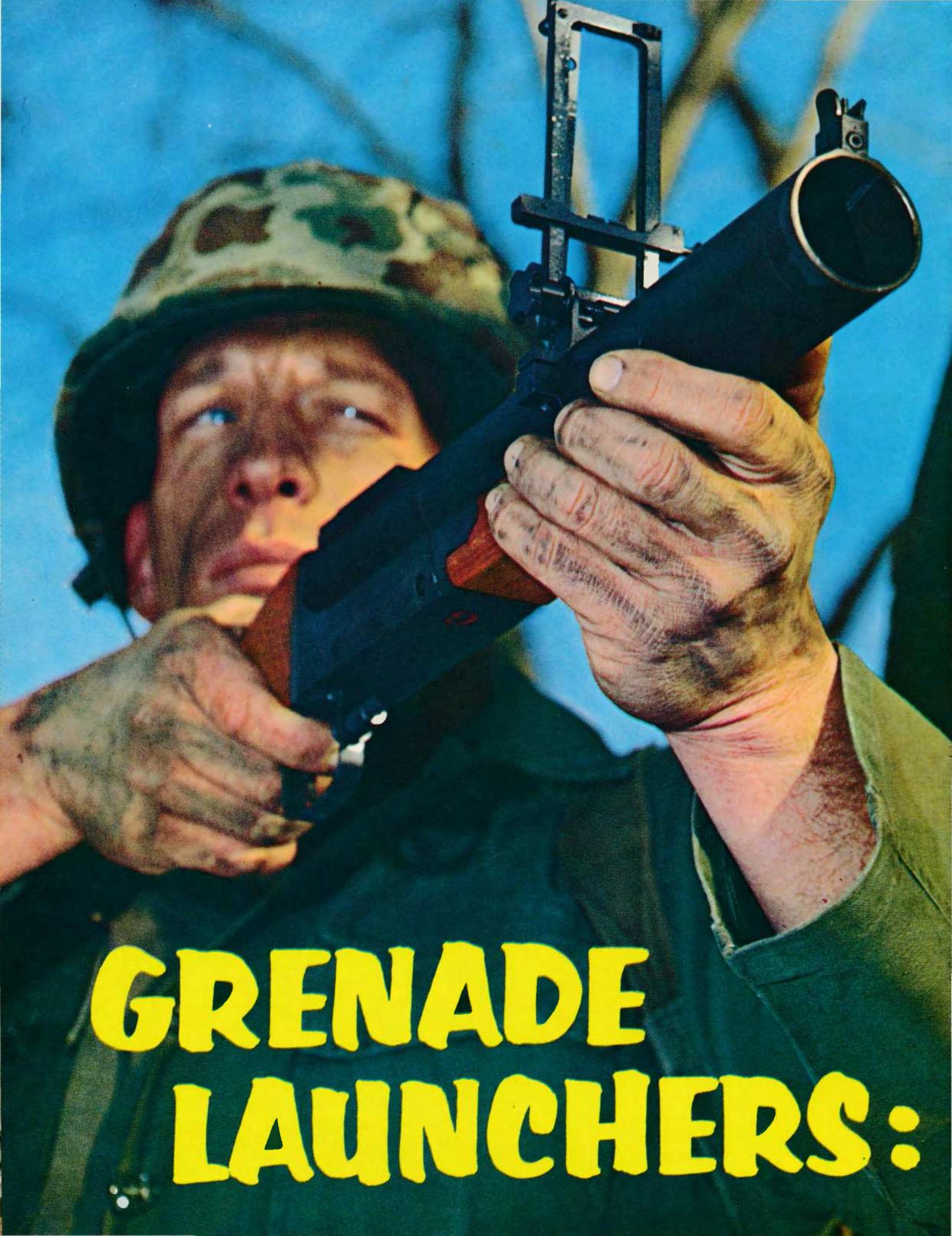
But where are the grip-grabbers now? Were they doomed, as was the real-life gunslinger, to a brief, flashy career and oblivion? Perhaps it was the advent of the “psychological” western that turned public interest from the gunfighter image.

Whatever it was that stole their spotlight, though, the fast-draw contest is still going on. Many of the original competitors are still at it today—the “hard core” that didn’t need limelight, but settled for the personal satisfaction of improving their time in a competitive sport that they enjoy. They have added new enthusiasts to their ranks, too. If the publicity is lacking, it may be due to the increased safety standards of today. Our sensational press isn’t interested in anything having to do with guns—except for heinous crimes and tragic accidents that sell newspapers and incite unfavorable publicity and restrictive laws.

I had an opportunity to visit a group of Chicago area “gunslicks” during one of their Tuesday night meetings at the Bellwood, Illinois Police Department pistol range a short time ago. The club, “The Chicago Colts Fast Draw Club,” has about twenty active members and they were out in force that night. All colorfully costumed in the best Hollywood gunslinger tradition.

Of the twenty-some-odd people at the meeting, it would have been difficult to find any lowest-common-denominator other than an interest in their unique sport; *Continued on page 62*





GRENADE LAUNCHERS:

The grenade—whether hand thrown or launched from a gun—means more firepower

GRENADIERS OF OLD were most impressive and vigorous soldiers of their time—standing often over six feet in height, resplendent in red, gold, and blue, they represented the epitome of close-in fighters. The grenades (bombs) they used were anything but reliable by today's standards, and it was not uncommon for the grenadier to be horribly disfigured or killed by his own weapon. With this in mind, it is understandable that grenadiers were considered a most hardy and courageous breed.

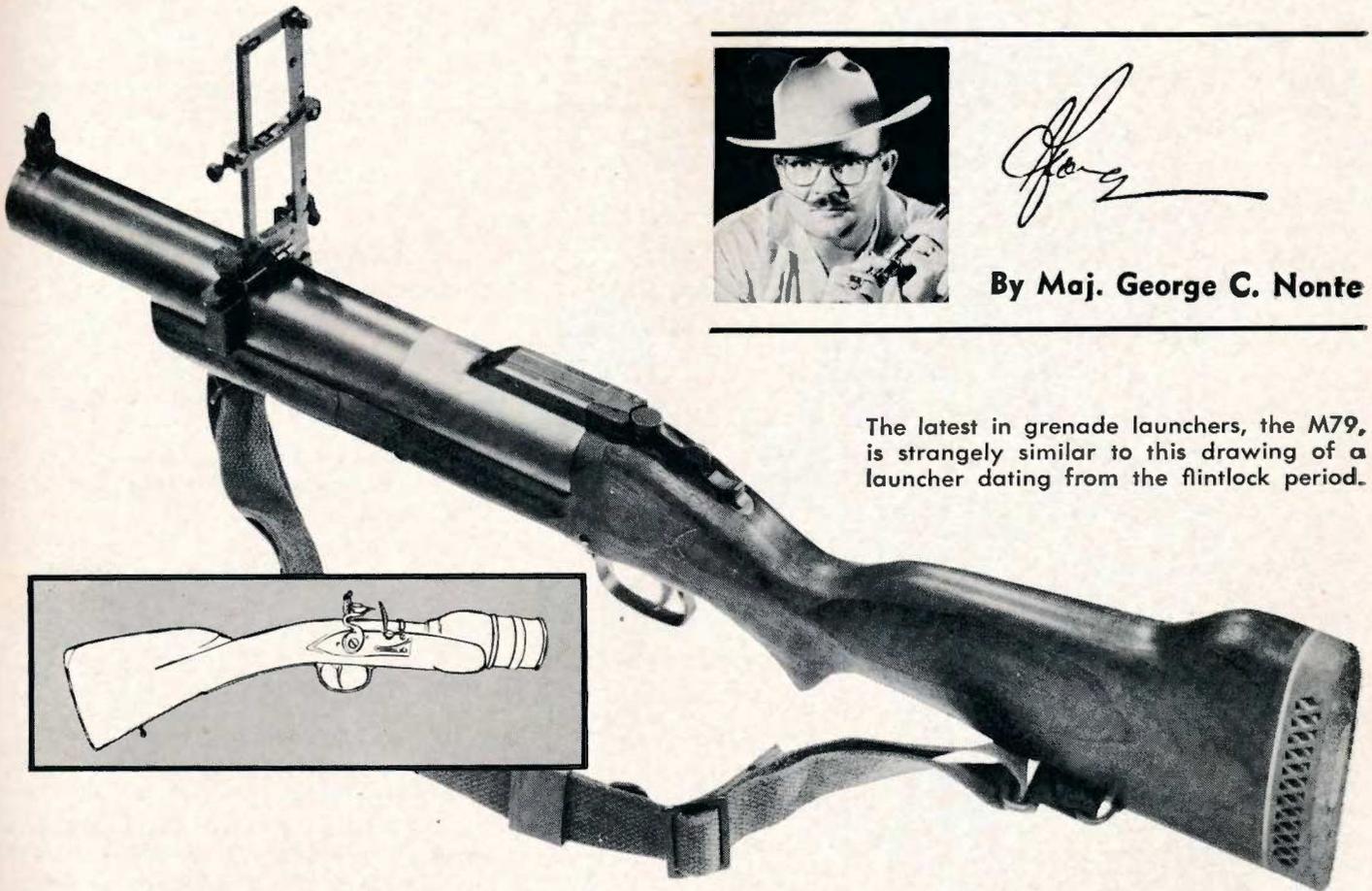
Grenades of those days were simply hollow spheres of metal or pottery, filled with black powder and fitted with a short length of fuse. The grenadier had first to light the fuse from a slow match dangling around his neck, then quickly hurl his deadly missile at the enemy. Provided the fuse did not "flash-through" (a not uncommon occurrence) and blow up the bomb in his face, his throwing arm was strong enough, and he could duck quickly enough, then he might survive to toss his next grenade. His was not an un Hazardous

occupation, nor did it lack for adventure.

And, thus, were used the first grenades in war—and the first launcher was man, himself.

Grenades in one form or another are nearly as old as explosives and firearms. Though widely known, they were not extensively used because of their crudity and the above-cited dangers to the user. However, in WW I, the development of reliable percussion-actuated time fuses (notably by the Krupp interests) made the "hand" grenade a highly effective and reliable in-fighting weapon. It is interesting to note that during that conflict the British pirated the Krupp designs and eventually paid royalties on the grenades used against the Germans. Thus, the Krupps profited from every German soldier killed by a British grenade, a strange state of affairs.

The major objections to the WW I grenade were the limitations of range and accuracy. The average soldier could neither throw one very far nor place it with any great degree of accuracy. Consequently, means



By Maj. George C. Nonte

The latest in grenade launchers, the M79, is strangely similar to this drawing of a launcher dating from the flintlock period.

Infantry's Big Guns

GRENADIERS



The experimental XM-148 40 mm Grenade Launcher attaches easily to the M-16.



M1891 carbine used one bolt and two receivers to launch grenades.

were devised to propel grenades with the various service rifles in use. Generally speaking, this was accomplished by fitting a specially designed grenade to the muzzle of the rifle and discharging it therefrom by means of a special *blank* cartridge.

Three basic systems were utilized to accomplish this. The Germans fitted a cup to the rifle muzzle into which the grenade was placed. The British Tommies used a grenade fitted with a rod which was inserted into the rifle bore. Some other designs consisted of a cavity in the grenade base which fitted over the muzzle of the rifle. All three methods accomplished the same purpose, and enabled the riflemen in the trenches to lob a grenade 200 yards or more—at least five or six times the distance it could be thrown, and with greater accuracy.

However, those launchers and launching systems used in WW I were far from the first true grenade launchers. Even early in the flintlock period, short bell-mouth carbines were manufactured solely for the purpose of discharging grenades. Even that far back, the need for greater range and greater safety to the user was recognized. The accompanying drawing illustrates a typical flintlock grenade launcher.

Following that great "war to end all wars," no great amount of grenade launcher development took place. The rod-type was discarded by all the major powers, being replaced by one of the other types. The unique V.B. which had been adopted by the U.S. also passed from favor. It differed from all the others in that it contained a central passage which allowed the bullet of a ball cartridge to pass through. It was *intended* to be launched from the rifle with a standard ball cartridge. The alleged advantages of such a system were more than offset by its inherent disadvantages.

While most nations went into WW II equipped with cup-type launchers, the U.S. Army had re-equipped with a tubular launcher attached to the muzzle. This type could be left in place without interfering with normal use (*Continued on page 59*)

Next time somebody puts the knock on hunters, tell him this:

Tell him that hunters do more for conservation than the rest of the population combined.

It's the hunter and fisherman who ante up \$140,000,000 a year for the support of state fish and game departments. (All 50 of them.)

This money is used to protect all wildlife. (Including hundreds of non-hunted species: Shorebirds, songbirds, owls, hawks—even mammals—that your friend and his family enjoy.)

And that wildlife refuge he took his kids to last summer. Guess who paid for the land?

In fact, wildlife areas paid for by hunters' dollars support more kinds of non-hunted wildlife than game!

Truth is, hunters care enough about wildlife to willingly pick up the tab.

A voice in the wilderness

This concern is nothing new. Hunters and fishermen have been leaders in every major conservation crusade in this century.

Sportsmen were the first to demand that the market shooting which threatened many species of wildlife be stopped. The first to call for season and bag limits.

Fishermen were the first to warn the public of the dangers of water pollution.

Outdoorsmen were the first to complain of the ravages of soil erosion, forest fires, littering and roadside junkyards.

For decades, the sportsman has been a voice in the wilderness calling for conservation programs. And

putting his own money where his mouth is.

Ask your friend if he'd like a tax break

"Everybody wants lower taxes," he'll probably tell you. Then you can tell him that, 30 years ago, hunters and the shooting industry asked to be taxed!

The 11% tax on sporting arms and ammunition has provided more than \$300 million for wildlife management and conservation.

Much of this money has been used for buying land. The hunter might use it two or three times a year. But the rest of the public can enjoy it all year long.

Lower taxes? While the rest of the population was smiling when excise taxes were lifted from a long list of products in 1965, a new generation of hunters insisted that their tax be kept.

The hunter wants to continue to pay for wildlife conservation.

Give your friend a dose of the birds and bees

Tell him the real facts of wildlife. He probably doesn't know that changing farming and forestry practices have more effect on wildlife population than hunting has.

He probably doesn't realize that doves and quail have a 75% annual mortality whether they're hunted or not. If the hunter did not crop the surplus each year, nature would.

Then stop him cold with a hot statistic: Because of scientific game

management, paid for by hunters, many species such as the white-tailed deer are more numerous today than when the Indians were doing all the hunting!

In fact, hunters have actually added species. The ring-necked pheasant, for example, has been around so long that most people think he's a native. What they don't know is that hunters paid to import and propagate these birds. Now we have more than 60 million ringnecks.

Tell him a few more things

Tell your friend that hunters pour \$1.5 billion into the general economy each year. Spend over \$100 million a year developing wildlife habitat on private lands. Spend countless hours planting feed and



cover, attending conservation hearings and clean-water conferences, supporting wildlife groups.

Then take a deep breath and ask him what he's doing this weekend. Conservation can always use another friend.

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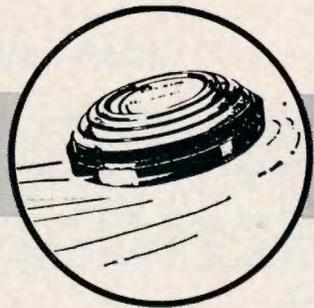
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PULL!

By DICK MILLER

BOMBS BURSTING in air, and rocket's red glare provide no more spectacular fireworks than the potential of a new date line in clay target shooting events. The new date line in clay target events is embattled Camp Perry, Ohio, no stranger to the smell of both real and verbal gunpowder. Since 1922, the gunpowder smell at Camp Perry came from center fire and rim fire rifle cartridges, especially during the National Matches, mecca to the rifle and pistol gunner, just as Vandalia near-by in Ohio is mecca to the trapgunner, and the NSSA World Championships the super ne plus ultra to skeet gunners. Two new International-type skeet fields and trap fields opened during the 1967 National Matches at Camp Perry. And 1968 is scheduled to see the addition of three more International clay pigeon fields, and three more International skeet fields to the clay target layout at Camp Perry.

I predict that one seemingly innocuous line in the National Rifle Association's announcement of the addition of clay target facilities to Camp Perry, will set off some verbal shots that will be heard around the world. That line is: "This facility, when completed, will provide a mid-west location for International skeet and clay pigeon competitions." If my mail during the last two years is any criterion, that announcement will endear the National Rifle Association in the eyes of ATA and NSSA to about the same degree as NRA is currently held in high esteem by Senator Robert Kennedy. I may be wrong, but wrong or not, I am keeping a wary eye on the nearest bomb shelter, just in case.

(Aside to Col. Jim Crossman and to John Rudolph Sailer. Thank you both for your very kind letters. I agree with you, wish both of you well, and good shooting. You will understand that our lead time prevents effective use of some of your announcements and stories, but that the Camp Perry announcement heats everything up and causes me to keep your letters on

top of the mail file for their very well-presented observations.)

It does seem pertinent at this point to observe that the civil rights movement is not the only movement abroad in the land in which the various participating groups hold the same general goal but seem to be sharply divided as to the best path toward those goals.

If all this seems a little mysterious to the casual reader, let me briefly explain (earlier columns have touched on the subject in depth). The National Rifle Association (NRA) is most generally associated with the promotion and regulation of rifle and pistol shooting. The Amateur Trapshooting Association is the national regulatory body for our domestic trapshooting. Skeet is regulated and promoted by the National Skeet Shooting Assoc.

But, recent years have seen a very sharp growth in the International versions of clay target shooting, which differ in equipment and rules from the domestic versions. Also, regulation of the International clay target games is vested in the International Shooting Union (ISU). As the United States member of ISU, the National Rifle Association (NRA) has been charged with the selection of teams and shooters for United States clay target participation in world-wide events, such as the Olympics and Pan-American Games, along with regulation ISU World Championships.

My mail, and some conversations with other shooting buffs, reveals some degree of internecine warfare among the shooting brotherhoods concerning areas of responsibility. My position, as stated in earlier columns, is that there is room in the shooting world for each group, and that all of them ought to work together for the common good. But, as it is readily observed in other fields of human endeavor, this ain't easy!

It is appropriate at this point to report an instance where shooters did work together for a highly successful

shooting event. Little Delaware has only three NSSA affiliated clubs, and only five skeet ranges, but 44 Delaware residents accounted for 110 entries in a highly successful four-gun state skeet shoot, which was also given a huge boost along the way to success by the stellar support of Dover Air Force Base, individually and collectively, from Brigadier General J. B. Wallace down through the ranks. The Delaware shoot was dedicated to the great pro and exhibition shooter Wilbur Cox, who died last year, but whose influence lingers.

The big title, High-All-Around, went to Capt. M. H. Young of host DAFB, with 387x400. The Wilbur E. Cox Trophy, appropriately a Champion of Champions award, on the basis of 25 targets in each of four guns, went to Delaware NSSA Director Dr. Bruce Farquhar, but not without a struggle. The good doctor had to turn back some formidable opposition from Capt. Young, and from SM/Sgt. G. H. Holder. Capt. Young added to his laurels the .410 trophy with a 94, and Sgt. Holder was consoled by his 99 and victory in the 20 gauge race. Dr. Farquhar's 99 was also good for the Sub-Senior trophy.

The name Miller figured prominently in trophy distribution (naturally). (If we Millers can't beat 'em any other way, we simply outnumber the opposition). Rosemary Miller won the ladies title, joined husband John for the two-man and five-man team events, and is the mother of the sub-junior victor, John Miller, Jr.

Harrison Taylor, a protege of Wilbur Cox, took the junior trophy, and Herb Albaugh, an associate of Wilbur, the industry laurels. Major Oberdier and Col. Patch turned back Dr. Farquhar and A. S. Robertson for the two-man hardware. And the five-man victory went to a quint from host DAFB (Capt. Garriss, Maj. Oberdier, SM/Sgt. Holder, Capt. Glover, and Capt. Young).

Just to demonstrate the ecumenical spirit I advocated earlier in this column, two of Delaware's trapshooters completed their trap strings at nearby Silver Lake Sportsman's Club, then, marvel of marvels, associated with the skeeters. Walter Marvel (the marvel of marvels to whom I referred) broke his first skeet 25 along the way to a runner-up trophy in 28 gauge. Leon Pleasanton, whose trap victories have been chronicled often in these pages, competed but left a few for seed. Two other trapshooters, Carmen Stigliano and Henry Bearman, recorded their trap scores at Silver Lake, and watched the skeet events, probably to provide moral

support for Marvel and Pleasanton.

While Delaware is in the spotlight, I also report that Walter Marvel, he of the ecumenical tendencies chronicled above, took the 16-yard title in Delaware's state trap shoot, over a field of 225 hopefuls, with a 25 straight in overtime after being tied over the 200-bird course by Charles Austin, of Kent, Delaware.

For more skeet results, John Dilcher of Allentown, Pa. won the 20 gauge race in the annual Lehigh Valley Championships, and added high-over-all with 287x300. Ray Corper, from Ambler, took the 12 gauge trophy with a near-perfect 99.

Austin Dorr, of Medford Lakes, was the big noise in the New Jersey state trapshooting championships. His 198 in the 16-yard singles, 95 in doubles, and 92 from 26 yards in the handicap event gave him 385x400 and the New Jersey All-Around trophy. Lt. Col. Wallace L. Anthony from Cherry Hill turned back two formidable competitors in a shoot-off for the New Jersey 16-yard crown. His 50 straight in extra innings took him past Dorr, and Howard Dilts of Ringoes, survivors from a record field of 298 shooters.

No year of PULL! is complete without word from the great Women's Interclub Target League in Pennsylvania trapshooting. The ladies of Torresdale-Frankford Country Club took the 1967 season trophy after ten matches. Mrs. Edward N. Howell of the Philadelphia Country Club was the individual season winner, for her score of 338, calculated on the best seven of ten matches of the 1966-1967

season. Mrs. W. W. Ramey of the Torresdale club was second, with 337, and Mrs. Bruce Ambler from Huntingdon Valley CC third at 335. My heartiest congratulations to the ladies, singly and in teams, for their great Woman's League. May your tribe increase!

My longtime friend Edgar Kuhlenschmidt, after surviving a rather shaky and embarrassing start in registered trapshooting which I witnessed about 20 years ago, seems destined to climb to the heights in trap. Edgar sets a goal, and attacks it relentlessly. His first goal in the three-event game of trap was sixteen yards. He ran off an impressive string of 200-straight at 16 yards, and some formidable season averages.

Next goal for him was handicap. Result: back to 27 yards, and some unbelievably fine scores from the maximum distance.

Now, in 1967, he became the 27th man in trap history to break 100 straight in doubles, and has now followed that milestone by winning the Indiana State championship in doubles after a shoot-off with Billy Christensen of Griffith.

But, if I know Edgar, from Evansville, Indiana, he is probably unhappy because his missed one at 16-yards, giving him only 199 out 200 in singles, and only third place for the state in that event. Prediction: Edgar may have to turn to skeet for new fields to conquer, or, perhaps, to the International version of trap. I'll keep you informed!

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UNIVERSAL'S NEW LOOK CARBINES

(Continued from page 43)

show you improvements in every part of the Universal carbine over its prototype of World War Two, but I will attempt to tell you what stands out, to me, from Abe Seiderman's long and patient demonstration. One high point, to me, was the complete transformation of the gas port assembly.

The gas port in the original carbine was slipped on over the barrel and supported only by a small ring crimped around the barrel. A hole was then drilled through this fitting and through the barrel wall to form a vent through which gas could escape to operate the piston. But since the fitting was built only to slip-on tolerances, gas would also escape under and around it; and, too, if the fitting was ever struck a sideward blow it would rotate on the barrel, spoil the

vent alignment, and cut off the flow of gas to the piston.

The piston itself was troublesome, having a small bearing surface which permitted further gas leakage; and it was held in place by a fine-threaded nut which was anchored to prevent it from shooting loose and could be removed in field-stripping only with a special wrench. Still another problem lay in the thin walls of the piston housing. The piston hammering against the piston nut often stripped the threads and drove the nut out of its position.

Seiderman has changed all this. The gas piston is now a heavier cylindrical pin, hardened to 62 Rockwell, bearing on the full length of its mirror-smooth surface, fitted to tolerances that cut leakage to an absolute minimum.



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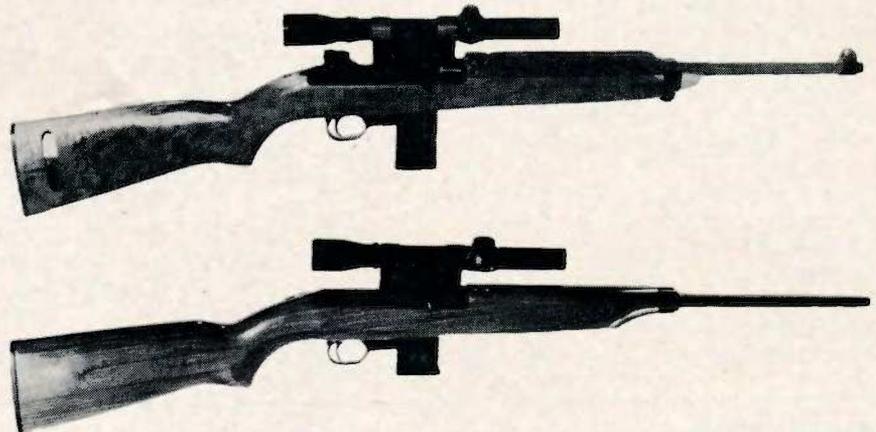
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There can be no leakage at all around the gas port housing, since this is now a heavy steel block heli-arc'd to the barrel on three sides. This process is used because the heli-arc is virtually a cold weld and does not reduce the hardness of the barrel or of the port itself. This block is exactly drilled and seated against a shoulder of the barrel which prevents accidental displacement.

Yet the gas assembly in the Universal carbine can be easily removed, without tools, and simply reversed, to convert the gun from semi-auto to single-shot action! The advantages here, for training purposes, are obvious. GI trainees can be taught the basics of carbine marksmanship without concern about the "loaded, cocked, ready-to-fire-again" hazards of the semi-auto—and the civilian dad who wants a semi-auto for his own use but prefers to limit his teen-agers to single-shot shooting can have both of these action types in one gun.



In addition to the .30 Carbine, Universal also makes the Ferret (below), a varmint model in .256 caliber.

Another change that impressed me was in the slide. Prototype carbines gave this, the most vulnerable of all its parts, a thin 3/16 inch-wide lip of metal, sliding in a milled groove, as its sole bearing surface in the receiver. Universal has eliminated the lip, eliminated the grooves on which the forward end of the slide used to track (grooves that were cut too deep for safety anyway, and which were sometimes a cause of burst barrels)—and set the slide in a receiver channel in which the full length of the traveling slide receives firm support, both horizontally and vertically. It is impossible now to pull the slide out of its track in cocking the gun.

Sights on the Universal carbine are adjustable peep rear, shielded blade front; a practical and satisfactory combination. Universal will recommend, of course, that you fit the gun with one of their scopes. All Universal

guns have drilled and tapped receivers. Stock are fully inletted, with nylon fillers, and are supplied with a side mount and four screws that can be installed by any purchaser in three minutes, using only a screwdriver. The side mount fits Universal detachable rings, or Weaver rings.

Safety and magazine release catch are still close together, but the safety is a down-working lever on the front of the trigger-guard, and the magazine release is a push-button, making confusion unlikely.

Universal's requirements for quality in component materials are high and rigid. Receivers are electric-furnace hammer-forged certified forgings, made of 4140 certified steel. Barrels are drilled, not from cold drawn bar steel but from 4140 certified gun-quality steel, oven tempered to 24-28 Rockwell. Bolts and heavy metal parts are X-rayed to reveal hidden cracks or inclusions, and where such faults are found, the piece is rejected.

Quality American walnut is said to be in shortage, but Universal gets it, and their endless racks of stocks ready for assembly delight the eye of the gun-lover. The finish used is hard, scratch-resistant, pleasing to touch as well as to see. It contains no color. The natural colors of the wood show through, providing an unusual variety of choice.

But high quality standards do not end with materials; rigid quality control follows every part through every step down the long lines of precision machines. The machines themselves are set to unusually close tolerances, and each part is carefully gauged as it leaves each machine. Barrels are drilled with end-to-end accuracy that halves the external milling necessary, after most barrel drillings, to center the exit hole. Bores are then lathe-polished—an operation omitted by many makers. A third lathe operation

cuts the rifling; deep, sharp grooving that is, in itself, a guarantee of excellent performance.

Mirror-smooth finishes are standard, and there are no burred edges. Pins are ground to closest accuracy, polished, and their end-edges rounded. Functional screws have insert nylon plugs added, to provide "drag" against unscrewing, so that vibration will not unseat them even when they are partially loosened.

Barrels are screw-seated against gauges that measure the torsion exerted, and are then gauged in two directions to make sure they are "squared" with the action. Finally, assembled pieces are fast-fired for function, bench fired for accuracy. Three-inch grouping will pass inspection, but the average is nearer two inches—excellent indeed for any light hunting rifle.

Carbines in six grades (seven if you include the Ferret varmint in .256 caliber, and ten if you add the three .30 caliber Enforcers) are the main line with Universal; but they offer five other arms as well—the Vulcan 440 .44 Magnum slide-action rifle; the 101 single-shot 12 gauge shotgun, the 202 double shotgun in 12 and 20 gauges; and the X-22 pistol—all made under the same rigid quality control standards. Carbines and Enforcers can be bought in over-all nickel or gold finishes if you like your guns flashy.

Universal management is so confident of the quality of their guns that each piece carries a three-year warranty "against all defects arising from faulty workmanship or materials." In addition, for a fee of five dollars on purchase, they offer a lifetime warranty against all defects in material or workmanship, and against defects "arising from normal wear and usage," covering all parts, including wood!

Universal now offers rifle scopes, in addition to the guns, and proudly claims to be the largest American importer of rifle scopes today. Their lines of rifle scopes cover most of the waterfront, from the Model A 4x15mm 3/4" to the impressive 3x9x40mm 1" Model L. The prices are impressively low when you know the specifications on which they are made: lenses of finest glass, specially ground for maximum light transmission and vision, all fully coated; tubes of super-hard non-scratch anodized aluminum—unitubes, wet- and weather-proof, nitrogen filled to prevent fogging.

Universal also makes its own line of rings and mounts for its own and other rifle scopes. Like everything else coming out of this plant, these are precision-made, handsomely finished, packaged to solve sales problems: see-through envelopes on numbered cards

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that tell which type and size will fit what rifles. Paul Bines, Vice-President for Sales and Promotion, is particularly proud just now of his step-down, compartmented, counter-top display rack for rings and mounts, with a complete cross-index of what parts for which rifles on the front, for customer self-service, and a matching chart of instructions on the back, for the benefit of clerks who get lost in the maze of firearms technicalities—an area in which, unfortunately, too many sporting goods clerks need all the help they can get.

The Universal operation currently includes four plants: one (in Hollywood) for wood-working, the source of Universal's stocks; two (in Hialeah) for precision tooling and assembly; and one in Davie, for heavy machining. The location of these plants within a few miles of each other, all in north-of-Miami suburbs, permits the closest supervision by top personnel over every phase of production.

Universal produces carbine parts in

quantity for the U. S. Government, for military use, in addition to the guns they build for the commercial civilian market. The GI production includes the Universal design improvements, and the same high standards of quality control govern the GI weapons as are applied to the commercial arms. Stocks may be a little less fancy, but the only other changes are those required for the application of a bayonet lug and the seating of the bayonet ring.

One phenomenon pleasantly noticeable at Universal is the individual pride of team participation exhibited by every employee, all the way from the three-man partnership at the top, down through the master craftsmen at the machines, and even out into packing and shipping. Universal does not make the cheapest carbines on the market—their prices are actually some ten dollars above the median—but every man there, and woman too, will tell you, "We make the best!" And on the basis of what I saw, I would not care to dispute it.



GUNS AND THE LAW—THE MODEL TEN

(Continued from page 30)

at a more appropriate time. It is a combat arm of the first magnitude, designed by a professional policeman to enable his fellow officers to dominate and survive in situations where guns are used in anger, and in the commission of lawless acts. High Standard, already world famous for its fine line of target and sporting arms, has taken a major step forward in what is anticipated will be an increasing emphasis in the law enforcement armament field.

I fired the test model several hundred times and found it easy to shoot, accurate, and reliable, no malfunctions whatsoever. Recoil is less than that of a standard pump model due to the automatic action absorbing much of the gas energy generated by the fired round.

If you, as a kid, ever shot rats at the city dump, as I have on many a dark night, you will appreciate the unique built-in flashlight feature. We used to tape a flashlight to the muzzle of our single shot .22 caliber rifles, and adjust so the bullet impacted in the center of the spot. The built-in light in the plastic/fiberglass housing of the arm serves the same function. It is zeroed in at 30 yards. Put your light on the subject and you may either look him over, or pull the trigger, as indicated. This is a valuable confidence building features that should appeal to any po-

liceman covering the dark alleys or sniper-filled riot areas.

The new weapon has only been available since mid-summer and already there is much military interest. Major security services are also studying procurement. Far sighted company policy limits sale to law enforcement only. Where departmental regulations permit, individual officers wishing to purchase the gun can do so. A factory furnished certificate giving law enforcement affiliation, signed by a superior is needed. All arms shipped from the factory must go to a police destination and are registered accordingly. Complete detailed tactical use information and servicing-cleaning instructions accompany each arm. Best of all, the price is not excessive, when you consider the combat flexibility. It is no more than an officer would pay for a "dressed up" magnum revolver.

Probably a few modifications will be made in time, such as: increased magazine capacity, different sling adaptations, a magazine cut off, and installation of the Chemical Mace type tear gas projectors in the housing. This is one "hell of a combat weapon" that in all probability will become a "most wanted" police weapon in the decade ahead. Given a choice of any police combat weapon available to law enforcement today, this is the one I would pick above all others.



CETME—MILITARY TO SPORTER

(Continued from page 27)

the United States and, in turn, Spain received quantities of military equipment of American manufacture for its Armed Forces. Both of these facts inescapably placed strong pressure on the Spanish to develop small arms conforming to the standard NATO ammunition adopted by the U.S. and the majority of NATO powers. This involved a reexamination of the engineering of the CETME Assault Rifle (designed previously to use short-case ammunition) down to every fundamental. The ammunition proposed for use gave chamber pressure in the 50 to 55 thousand pound class, instead of 40 to 45,000 pound class, and possessed substantially greater energy and external case surface.

After substantial reconsideration and modification, CETME was able to announce its prototype Military Rifle for the 7.62mm NATO Cartridge. After considerable testing, and pre-

H&K is represented by Harrington and Richardson, and the rifle is currently under consideration by the U. S. Army Ordnance Department as the T-223.

At the same time, the Spanish Military Services proceeded to adopt their own series of CETME Model Rifles, mechanically distinct from the H&K Models in significant aspects. These models were ultimately developed to the point where they were adaptable to use both NATO standard 7.62mm ammunition and a special Spanish round of somewhat different characteristics, without adjustment. The Spanish round has a bullet weighing approximately 125 grains, but achieves substantially similar ballistics through out its trajectory because of superior bullet form.

Use of this ammunition by the Spanish Armed Forces is eminently justified, in the view of the Spanish,



Inspection of the finished parts, in this case the front sight base, uses Gamma Radiography for x-ray inspection.

sentation to interested European Commercial and Military groups, the rights to one principal variant of the CETME 7.62 Rifle were sold to N.V.M., and subsequently to the firm of Heckler & Koch of Germany. This Rifle (after modification) was adopted as the G-3, which has now replaced the F.N. FAL 7.62mm totally as the service Rifle in West Germany. This model of the CETME Military Rifle has been subject to extensive tests by other nations interested in adapting a service rifle adapted to the 7.62mm cartridge, and, according to late report, will be extensively adapted in Scandinavia to replace existing military weapons. In the United States,

by the better controllability and lessened recoil obtained without material sacrifice of accuracy or effective range. At the same time, these rifles will use the standard NATO round without any modification or adjustment being necessary. These rifles have proven quite successful in use in Spain, and they are currently in large scale production with a view to the complete equipment of the Spanish Armed Forces with CETME Rifles.

In 1959, CETME was asked by Mars Equipment Corporation to consider whether it would be possible to prepare a Sporting and Target Rifle,



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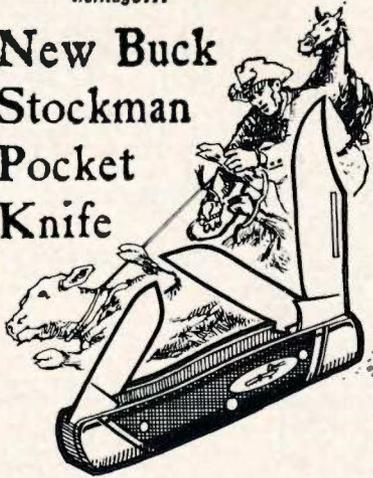


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making use of many of the more significant developments resulting from CETME's prior research. After extensive preparation, initial prototypes became available in 1962. After modification and further refinement, a subsequent prototype model was standardized as the Model "Sport."

This model was found to be wholly outside the purview of the National Firearms Act by the National Office of the Alcohol Tax Unit of the Treasury Department. This is the model of Rifle currently offered for sale in the United States as the CETME "Sport."

The sporting and military models of CETME rifles utilize a semi-rigid locking mechanism in the bolt assembly, activated by a pair of specially hardened rollers protruding from the side of the bolt head. The interaction of the rollers, the roller seats in the barrel extension, and the bolt locking cam is such that a definite delay is invariably produced before unlocking occurs. In practice, this short interval is quite sufficient to assure that the bullet has left the barrel, and bore pressure has materially dropped before unlocking has progressed sufficiently to permit any rearward movement of the bolt. As it is desired that the rearward movement of the reciprocating parts occur during a moment of relatively high internal pressures, the chamber has a series of "flutes" or grooves running parallel to the axis of the bore to about the front half of the cartridge case from the case mouth. This permits the case to be "floated loose" from the chamber walls, and "lubricates" it against the possibility of unwanted case adhesion, in spite of the high operating pressures. When perfected, this design holds advantages of simplification over traditional gas or recoil operated systems, but it requires a very detailed study in order to obtain a perfect balance between masses and forces, under a relatively great variation of physical circumstances. Variation of chamber pressures, bullet weights, and cartridge specifications are most immediate, but not the only significant factors to be considered in producing a practical, field-use rifle using such a system. This meant that CETME had to conduct a complicated, exacting, and highly detailed study of the movement of various parts of mechanisms, by special oscillograph and high speed photography techniques, which permit investigations of velocities and accelerations of both individual parts and whole assemblies.

The general success of these studies,

together with the best tribute to the high overall quality and durability of rifles produced under the CETME program, is amply evidenced by the maintenance cost of these rifles. In current Military service in Spain, the annual replacement and repair expenditure per weapon is between 1 and 2 per cent for the present CETME model in use. This figure includes not only the small amount of repair and replacement, but also the loss of parts and rifles due to mistreatment by troops incident to rough field service in Spain's rugged terrain.

Heat treatment of metal parts is an important and complex factor in assuring production standards necessary to produce weapons with reliability and longevity. CETME has developed new techniques to assure the greatest degree of control over case-hardening depth, general hardness, and positive determination of the condition of the interior of hardened parts on a uniform production basis.

The straightening of rifle barrels to good standards of straightness is an operation traditionally associated with precision firing and close groups. At CETME, errors of linearity are measured down to 1/3000 of an inch, and this factor, combined with the excellent stability of the CETME operating system has resulted in precision of fire difficult to obtain in production weapons with heavier or longer barrels. A mean deviation of .50 per 1,000 is the average horizontal and vertical performance with Military Ammunition, of either the standard NATO or special CETME type.

Modern quality control plays an important role to CETME's manufacturing operations. As far as small arms are concerned, all important specifications are subject to control on a 100% basis; less important requirements are monitored by random sampling in accordance with advanced statistical practice. Raw materials and semi-finished component parts are subjected to severe acceptance inspection according to carefully preplanned specifications. Inspection of barrels and finished parts is equally severe, utilizing to the fullest extent modern gamma radiography equipment for the internal inspection of parts.

Most shooters are mechanically inclined, and perhaps this is one factor in the growth of popularity of military arms in the U. S. The novel designs, fine workmanship, and high standards of quality are basic to most of the military arms, and these are qualities which appeal to technically-minded shooters.



OUR MAN IN WASHINGTON

(Continued from page 21)

moved by mail-order sales." "I submit," stated Rep. Gross, "what the Attorney General thinks is irrelevant and inconsequential to this argument." Rep. McCarthy returned, "It is a crime against the stability of this country that we do not have laws to regulate . . ." Interrupting again Rep. Gross called in disgust, "Mr. Chairman." The Chair again ordered Rep. McCarthy to confine himself to the germaneness of the amendment.

Next Congressman Andrew Jacobs (D.—Ind.) rose in support of anti-gun legislation being germane. Countering was Congressman Thomas Foley (R.—Wash.), who proposed that taking up of a firearms amendment was not "germane" to the bill. The Chair, then ready to rule, sustained the point of order, thus it ruled the amendment was not germane.

Toward the end of the month the House Judiciary Committee held an executive meeting where the committee amended and reported to the House, "the Law Enforcement and Criminal Justice Assistance Act of 1967." Anti-gun members tried to get the Judiciary to add on the Administration's anti-gun bill also pending before the Committee. It was rejected.

On August 3, 1967, the measure reached the House floor. Committee member Jonathan Bingham (D.—N.

Y.) again tried to get an anti-gun bill to the floor. The idea seemed to be, after consideration of the Crime bill for the day, to insert into the record of the proceedings the Administration's anti-gun bill. This could maybe be construed later as recognition that the anti-gun bill was "germane" to the crime bill. Congressman Ray Roberts (D.—Tex.) objected until he had the assurance of Rep. Bingham that the Congressman from New York was not trying "to get the foot in the door."

Later when the proposed amendment actually came before the House, it was none other than Judiciary Committee Chairman Emanuel Celler (D.—N.Y.) who spoke out. "Mr. Chairman," called Rep. Celler, "I make a point of order on the grounds that the amendment is not germane to the bill. . . . While I personally am in sympathy with the purposes of the amendment, and, of course, have the highest respect for the gentleman from New York, I am constrained to make the point of order that the amendment is not germane to the purposes of the bill now before us."

Again, the amendment was rejected as not being related to the subject matter of the pending legislation. Thus, twice the anti-gun bill was rejected from bills that had overwhelming support.



GRENADE LAUNCHERS

(Continued from page 50)

of ball ammunition in the weapon. The grenade for use with it had a long tail-piece which slipped over the tubular launcher and served to receive the impact of the blank cartridge powder gases. Also developed by the U.S. use was a unique booster cartridge for use in this type launcher. It consisted simply of a separate blank cartridge which was inserted in the base of the grenade and ignited by the flash of the cartridge in the rifle.

But in the main, the participants in WW II began with launchers and grenades typical of WW I. The grenades used were of fragmentation or anti-personnel type, and were not capable of any significant effect upon fortifications or armoured vehicles. The massive and extremely effective use

of tanks by the Wehrmacht spurred development of the rifle (launched) grenades with armour piercing capabilities. Early in 1942, the U.S. Army tested its first such grenade employing the Monroe effect—shaped charge—which could penetrate the armour of most tanks in existence. Thus, for the first time, the lowly rifleman obtained a weapon—in the form of a rifle grenade—with which he could defeat the lumbering monster of the blitzkrieg.

Subsequent to this, more major powers developed and adopted similar type antitank and armour piercing grenades for use with their existing rifles and launchers. Further development following WW II in the grenade field was generally confined to improving and increasing the armour

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piercing capabilities of the basic shaped charge rifle type. Probably the ultimate in this has been reached in the Belgium-developed Enegra grenade, some versions of which will penetrate nearly a foot of armour.

Improved launchers have also been developed, generally designed as an integral part of the rifle barrel and/or flash suppressor and/or muzzle brake. The trend has been to maximum simplification of the system, to the extent of providing integral grenade launching and sighting capabilities in the rifle.

Continued improvement in grenades has, of course, made necessary the development of accurate, durable sights. Naturally the very low velocity

I think we can probably say that this represents the most advanced development of the *true* grenade. In making this statement, I am attempting to adhere to the traditional definition of the word, "grenade."

However, we have today a class of weapon which is identified as a grenade, but which is—in truth—a medium caliber, high-explosive shell delivered from its own rifled barrel. This class of weapon is exemplified by the U.S. M79 40 mm grenade launcher.

In the decade following the Korean War, it became evident in this country that a firepower gap existed between the hand-thrown grenade and the infantry mortar. Consequently, a low velocity explosive shell and



Belgium-developed Enegra grenade and its launcher.

of such grenades—and the consequent rainbow trajectory—makes it impossible to use the basic weapon sights. Up through WW II, auxiliary sights were usually fitted on the left side of the rifle for this purpose. Normally this consisted of a short sighting bar containing a notched rear and post front sight. The bar could be pivoted about its horizontal axis to adjust for range. The current trend, however, is to utilize a high folding rear sight affixed permanently to the rifle. In conjunction with this, a protrusion on the nose of the grenade is often utilized as a front sight. Though this system may sound extremely rudimentary, it does provide a sufficient degree of accuracy to allow the rifle to be utilized for point target destruction. Admittedly, no high degree of accuracy is possible at extreme ranges.

weapon to fire it were developed. The shell itself consisted of a sphere formed by winding square steel wire into the desired shape. This sphere contains a bursting charge which, upon impact, is ignited and ruptures the steel wire into approximately 100 small, light fragments which are sped outward at velocities as high as 5,000 fps. This sphere is given conventional projectile shape by a light sheet metal ogive (nose cone) and a similar cup-shaped base. The latter also carries a rotating band to engage the barrel's rifling.

The projectile is loaded to a very short, apparently conventional cartridge case. However, the case is unusual internally in that a small amount of propellant is first burned in a small chamber at high (35,000 psi) pressure. When peak pressure is reached, the propellant gasses rupture

a seal and expand to impinge upon the base of the projectile with only 1/10th of its previous pressure. This particular method of burning propellant is the most efficient for delivering a relatively large projectile at low velocities from a light-weight weapon.

The M79 grenade launcher which utilizes this ammunition resembles nothing so much as a conventional, single-shot, break-open shotgun with a short, rifled barrel.

The high favor which this weapon/ammunition combination has met in the Vietnamese War has prompted a great deal of development of more sophisticated and faster-firing weapons for the same general type of ammunition.

One version is a 13-pound automatic launcher, utilizing the same ammunition, which greatly resembles an over-sized submachine gun mounted on a tripod. It may also be mounted on vehicles. One step up the line is a 33-pound automatic launcher which uses a higher velocity version of the same type ammunition. It, too, is intended for vehicular, mounting, normally in a cupola or turret.

The most sophisticated development in this field thus far, and still classed as a *grenade* launcher, is the M5 40 mm unit. It is electrically-driven, capable of firing up to 400 40 mm projectiles per minute, and intended purely for turret mounting on U.S. Army helicopters serving in Viet Nam.

Turning back from sophistication to simplicity, we find the U.S. XM148 40 mm grenade launcher, which uses M79 ammunition. It consists of a minimal barrel and single-shot breech mechanism attached to the barrel of the M16A1, .223 caliber rifle. Its purpose is to provide the individual soldier with a choice of rifle or high-explosive fire as the occasion demands. In this respect, the complete unit (rifle and launcher) gives the soldier all the advantages of the M79, without depriving him of his basic arm, the rifle.

Developed by Colt's, the XM148 is new in execution, but hardly so in concept. Not too long ago, while prowling in certain un-named back-rooms, I came across the rifle/grenade launcher shown in the photo on page 50. It consists of a standard Italian M1891 carbine, to which has bolted to its right side a second receiver with stub barrel of 1 3/4" bore. To switch from rifle to high-explosive fire, one simply loads a grenade into the big barrel, chambers a blank firing cartridge, and transfers the carbine's bolt to the second receiver. A separate set of sights for grenade use is provided on the



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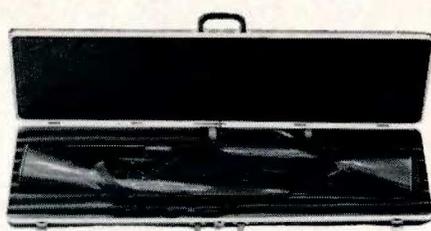
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left side of the carbine. The particular specimen photographed is dated 1929, and appears to be an arsenal job, not an expedient.

To date then, the term, "grenade," has taken on additional meaning. Where it once included only hand-thrown explosives, then later picked up rifle-launched missiles, it now includes a class of rifled, high-explosive shells of moderate caliber. The launchers themselves have progressed

from a simple, short rod inserted into the muzzle of a service rifle, to sophisticated, full-automatic mechanisms comparable to large-bore machine guns.

Today's crop of more sophisticated launchers and ammunition have contributed tremendously to the fire power and effectiveness of our Armed Forces. And, frankly, that is the goal of all of our weapons development.



IS FAST DRAW DEAD?

(Continued from page 47)

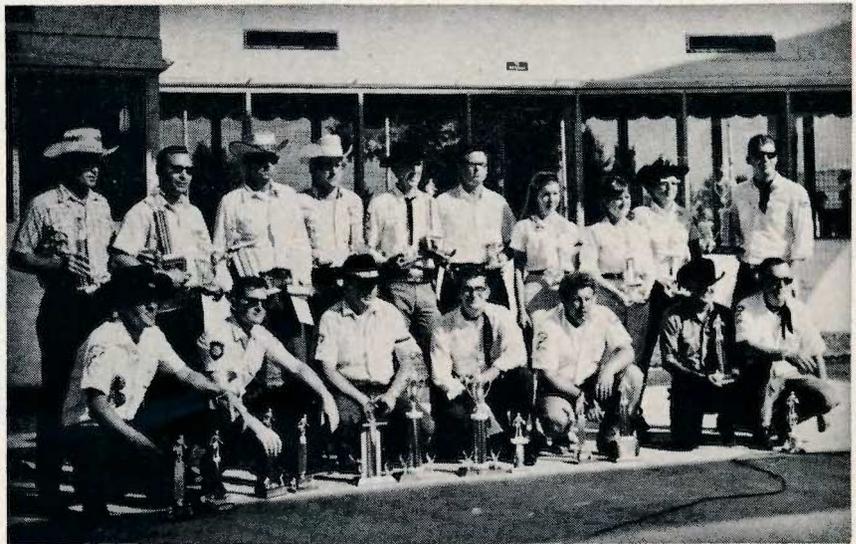
other than relatives that join in, anyway. I met a machinist, an airline pilot, students and housewives. There were young-marrieds and "old timers" and parents who brought their "young-uns" to compete.

The youngest "gunslicks" were 15-year old Pamela Sue Plum and Ricky Toblesky. Under-21 shooters must be sponsored, however, by an adult member.

Another requisite of membership here is that members must do their own work in modifying their six-guns. The less-mechanically-inclined are helped by the more capable, but it

fanning, but "thumbing" (slipping the hammer with the thumb) is recommended for beginners. A glove, sometimes without fingers, is worn by fan-ners on their "off" hand, to prevent cuts or injury on the hammer spur.

There are limits, of course, to the modifications allowed on guns and equipment used in the fast-draw competition. Many of the old timers were known to have tied back or removed the triggers, cut away the front of the triggerguard and lightened the hammers and springs of their six-shooters. "Trick" harness, such as the swivel-holster reportedly invented and used



Winners of various events at the 7th Annual Mid-America Championships, held at Dundee, Illinois this July. The participants came from just about every state in the Midwest, and represented half a dozen active fast draw clubs.

still gives the member a deeper feeling of involvement to "operate" on his own hawleg.

Colt's single-action revolvers are used exclusively by this group. The standard modification is a "fanning" hammer with the spur turned up 1/2" above the top strap.

Most of the club members favor

by John Wesley Hardin, also gave the shooter an extra advantage back when all was fair. At the time, it was the gunslinger's life that was at stake—not to mention a hard-earned reputation.

The goal now is acclaim, prizes, and reputation, but life usually goes on for winner and loser alike. All isn't

fair any more as far as modifications to equipment are concerned.

The trigger guard may not be cut through, nor can the trigger be removed. If a trigger shoe is used, it can be no wider than the guard. The hammer spur can be turned up no higher than one-half inch above the top strap. Minimum barrel length allowed is 4 $\frac{5}{8}$ ". (The shorter the barrel, the faster you clear leather.) All notches in the hammer must hold. A

ter usually registers a shorter time, because the full charge of powder in the blank will travel faster than a heavy wax bullet with only a primer for a propellant.

Al Milicevic, fastest draw of the Chicago Colt's Club, has recorded 31/100 of a second with wax bullets and 26/100 with blanks; to illustrate the difference in timing.

For the reader interested in joining a fast draw club, be it for family fun



Dick Plum (left) and Earl Straub of the Chicago Colt's talk six-guns with Don Keeley, Midwest rep for Colt Firearms Div.

Colt's six-gun should spell C-O-L-T when hammer is eared back.

The holster rig is the open-top western style. Barrel and $\frac{2}{3}$ of cylinder must be covered. No clamshell, swivel or fender rig is allowed and the holster must be capable of being tied down. Revolver and the holster insert are usually chrome-plated for speed and resistance against wear.

Optional equipment on the holster is a metal deflector. This device is usually sported by a leather-slapper who, at one time or another, was faster on the trigger than he was on the draw. Even a wax bullet with nothing but a primer behind it can make for a pretty memorable experience when it slaps your leg at a couple of hundred feet per second.

Timing is handled electronically by a clock marked off in hundredth-second increments attached to a metal silhouette target. When the timer is started, a light goes on at the target and the shooter draws and fires on this signal. This measures the reaction time of the shooter as well as the speed of his draw. The "bullet" striking the target automatically stops the timer and registers his score.

There is also a blank-shooting competition, using an inflated balloon as a target. Operating on the same basic premise as the silhouette target, but stopping the timer when the blank charge breaks the balloon. The lat-

er of love of competition, the price of equipment needn't be a serious drawback. A bit more of an investment is required than for, say, going bowling; but it's a lot cheaper than outfitting a Formula I racing machine.

About \$160.00 should be sufficient to buy the basic equipment; and a smart shopper might come out with enough change from that to buy a pair of fancy tooled riding boots. A Colt's Single Action Army would be the largest part of the investment, with the next-greatest expense being a holster and belt.

Perhaps the best bet for the beginner would be to seek out an operating club in his area first. There are between 500 and 1000 members of organized clubs throughout the United States and there has to be *someone* among this group who would give an interested party a little time and instruction with their own equipment to give an idea of what it's like before you make a big investment in equipment.

No, fast draw isn't dying. It still offers hours of enjoyment to thousands of people. Perhaps the quantity is not what it used to be, but the quality—reflected by the concern for safety, the enthusiasm of the contestants, and the spirit of fair-play—is certainly not lacking. If you doubt my words, visit a fast draw club near you, and see for yourself. 

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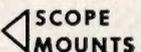
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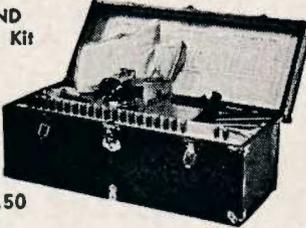
(Continued from page 37)

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powder metal parts are features. The action contains about one-half the number of parts found in models currently on the market, and it can be assembled by a blind man.

The Model WSR-2 lever action rifle has a full sear disconnect safety, as well as a hammer block type. The action is inoperable within one degree of action locking. The in-line locking mechanism allows assembly by unskilled personnel and production tolerances can be corrected by inserting various length battery blocks during final assembly. A fully-tested working model with box magazine is available, and it is possible to adapt it to a tubular magazine, as well. U.S. patent 3,287,842 has been granted. Joel Gross who worked closely with Walter during his last years considers this, and the WSSG-1 shotgun, to be the "hottest" models in the collection, with the biggest, most immediate mass potential.

Smith Model WSR-9 straight pull .22 caliber rifle is another new approach to inexpensive gun production. It features a unique "rising block" lock that can also be adapted to larger rifle calibers and even to shotgun gauges. The design permits the ma-

jority of parts to be made on a screw machine. It can be made in single shot, box magazine, or, with some adaptation, into a pump action model. Tool room models in both single shot and box magazine, are available.

It has been stated, by knowledgeable gun people, that an entire new gun manufacturing operation could be founded on the W.H.B. Smith pistol and shoulder weapon designs. The unfortunate, untimely passing of this "giant" in the world of guns, at a relatively young age, was a great loss to the shooter, gun lover, collector, professional gun-engineer, and designer alike. His legacy of books is well-known; now his legacy of gun design is at least available for what is hoped will be a future "shooting" generation.

Some of the mystery concerning Walter Harold Bingham-Black Smith may have been dispelled by this series, but much remains. The legend, his books, and his guns are now, and will be forever, part of American gunlore. The writer wishes to express his thanks to GUNS Magazine and Mr. Henry Fox, executor of the W. H. B. Smith estate, for making his contribution to arms history, possible.

POLICE MATCHES—COMPETITION OR . . . ?

(Continued from page 31)

and the non-shooting hand extended out in front of him ready to grip the revolver with two hands as it is extended down range. In this two handed grip, the elbows are slightly bent and it could almost be said the shooting form takes on the look of point shoulder shooting and not hip shooting.

What is the point of all of this? *Competition!* Better hip shooting scores result from a two handed position. A good shooter can fire six rounds, double action, in two or three seconds. Since the hip shooting position permits a total of 25 seconds to fire six rounds, reload six and fire them, it is easy to see the shooter has ample opportunity to take his time and bang those 12 rounds into the exact center of the target.

Reloading was always a problem in the old days, but Jim Cirillo of the New York City Police Department developed a loop holder for 12 or 18

cartridges that is unique. Most all top shooters use Jim's loop loader. It's great and it's fast! In so doing, the reloading time has been cut down considerably and again the shooter has plenty of time to get off that first shot, in each six shot string, take a quick peak at its point of impact and then, as old Bill Jordan says, tighten up the wrists, forearm, upper arm and shoulder muscles, grit their teeth, squint their eyes and drive five more rounds on top of the first round.

Well, it's obvious these people are shooting for the marbles and not for training under simulated combat conditions. An analogy might be drawn between the National Police Combat Matches and the Indianapolis 500 Mile Race. Both events are proving grounds for things to come. The experts are testing new ideas to eventually be used in training, but at the time, they are employed in the belief they will help win. I find it hard to

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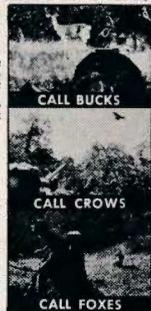
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imagine permitting a new rookie to extend his non-shooting arm down range in front of his body and his gun before he draws. Every training officer I ever met agrees that the farthest thing down range from the shooter should be the muzzle of the gun. No other part of the shooter's body is ever permitted to extend beyond that point. The difference is I was teaching a rookie how to shoot under combat conditions and not in a competitive match.

Needless to say, there have been innovations and new developments in the other shooting positions. The kneeling, double action or single action, sitting, prone, weak and strong hand barricade positions have all been refined from what they use to be. That is progress and that is competition.



Ready for kneeling position

Combat shooting has grown like wildfire in the past few years. Regional matches have sprung up all over the country. More and more police departments have instituted firearms training programs that include combat training at night as well as during the daylight hours. As a result of competition, it is my firm belief that better law enforcement training, in the area of firearms, has been the end result. Pay attention to these scores.

In this year's competition, the well-known shooters came through again. Frank May of the New York City Police Department took top individual honors. His buddy Al Syage was the number two individual winner. Frank and Al have been trading places with number one and number two for the last several years. They are still on top. Frank fired 1461 with 60 X's out of a possible 1500 and Al was right behind him with 1460, 67 X's.

In the team competition, the U. S. Border Patrol Blue Team took top honors. Their aggregate score was 2335, 92 X's out of a possible 2400. Few people know it, but the Border Patrol has, for many years, had a very good firearms training program

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for their men. I was not surprised when, in 1959 at the very first combat match, the Border Patrol team was victorious. Nor was I surprised when they took top honors again this year.

Just as the total number of competitors participating in combat pistol matches for police has grown each year, so has the number of police-women shooting in the matches increased. This year's champion was Policewoman Jeanne Bray of the Columbus, Ohio, Police Department. As the high individual Policewoman, she fired a 1433, 33 X's out of 1500. Lucile Chambliss of the Winter Haven, Florida, Police Department was second. Her score was 1400 with 30 X's. In 1966, Lucy took high honors by out-gunning Jeanne Bray. This year, the lady for the Buckeye State regained her title. (It sounds like another May-

Syage affair.) In addition to these two gals, 4 women from the Indianapolis, Ind., P. D. and a woman from the Ohio State Univ. Police Department fired in the matches.

The two-man team championship was grabbed by Miami, Okla. Police Department. These fellas are pretty steady shooters. They shot an aggregate score of 1124 with 20 X's out of a possible 1200.

Competition or training . . . ? At the National Police Combat Pistol Matches this year, it was all competition. That's good. The things learned at the matches, the ideas that are traded, revised and used will result in better combat firearms training at the rookie level as well as the in-service level. That's good, too. All things being equal, it is necessary to have competition in order to have better training.

POINT BLANK

(Continued from page 10)

including the hottest magnums—and they seem to hold together pretty well. There was a surge of interest several years ago in the .308 Norma Magnum. It is a real ringtailed tooter, a high-performance loading fully on a par with the Weatherby .300 Magnum. It develops over 50,000 psi and will go higher if the barrel isn't freebored a bit. Countless '03 Springfields were converted to the .308 and without any difficulty the action held this gee-whiz number.

The 1917 Enfield is one of the best conversions for the longer magnum cartridges. It has been the basis for makeup of all our biggest loads. It accepts the .375 Magnum, the .458 Magnum, and you name it, and handles 'em with ease. This is likewise true of the '98 Mauser. I am currently shooting the 8X68 mm in an old '98. The 8X68, little known on these shores, is a hot going-hell-for-leather magnum loading.

Is it a fact that as our new family of cartridges have developed over the past two decades that pressures have zoomed? No, it ain't so at all. We are still doing a careful job of keeping pressures well inside the 50-55,000 psi brackets. Reloaders sometimes go up to 60,000 psi and even exceed this but you don't find any of the smart ones doing this. And certainly the manufacturers are careful not to get into these lofty zones. They stay at 55,000 psi or under.

After all the weakest link in the action-cartridge combine is the brass

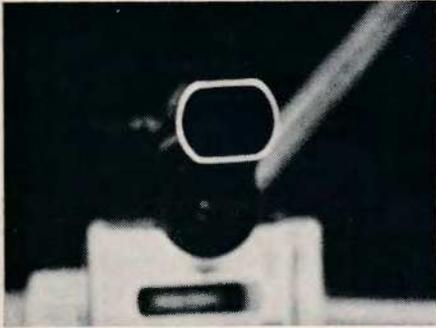
casing. It will give way long before the action and this is the factor which must be given the overriding consideration. When the gunner sticks below 55,000 psi he can depend that the casing will withstand the pressures satisfactorily provided headspace is okay. When he commences to go over these limits he is asking for trouble and it doesn't much matter if his brand new action has 14 lugs on the head end of the bolt or not.

The army is in serious developmental studies of a 12 gauge auto scatter gun with what has been dubbed the "duck-bill" muzzle. This muzzle has been flattened and elongated laterally. The idea is to get dispersion of the shot load in a horizontal direction. The ordinary 12 gauge barrel will measure, at the muzzle, somewhere between .690 and .730 inch. At 40 yards a charge of 00 buckshot will fall within about a 40-48 inch circle. The shotgun is seeing limited use in the Vietnamese War and there is complaint that the shot pellets are too closely bunched at combat yardages. In an attempt to get more dispersion the research & development longhairs have struck on the business of squashing down the muzzle and by reducing the vertical dimension to automatically increase the lateral measurement and thus cause the shot to spread from side to side.

Harry Brown and I took a new Browning Auto-5, with 24-inch slug-throwing barrel, and we made up a

mandrel—Harry doing the work and me looking over his shoulder—and after the mandrel was inserted into the tube at the muzzle end we reduced the business end until it had a gradual taper for 4 inches behind the snout. At the very muzzle itself we “duck-billed” the mouth to a dimension of only .590” vertically and squashed ‘er out to .805” laterally. This looks very much egg-shaped, believe me. It also raised some speculation as to how we were going to crowd 9 of the huge 00 buckshot through that narrow opening. The 00 buck measures .33” per pellet. The tube in its original form had measured .703” at the muzzle.

The firing was done first with a light field load of 1 1/8 oz. #7 1/2; then



Author's duckbill shotgun.

with 1 1/4 oz. #2, and then to a loading of single 0 buckshot. These run 12 to 15 to the load. Finally we graduated to 00 buckshot, which as I have said, run only 9 to the loading.

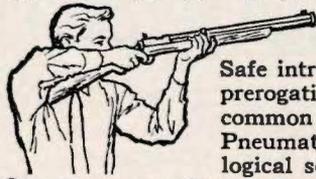
The firing was accomplished without incident. Despite the narrowness of the bore, reduced to almost 28 gauge, there were no signs of excessive pressures, and no enlargement of the elongated muzzle.

The payoff, however, was at the target. Not only was there utterly no increase in lateral dispersion of the shot load but actually the charge was reduced vertically! The narrowness of the bore from top to bottom literally forced the shot charge into a narrower, more compact groupment at 40 yards.

The direction of future handgun development is interesting to contemplate. There has been a great upsurge of new calibers since the end of the great war. We have seen the .44 Magnum and the .41 Magnum, watched the splurge made by the high speed twenty-two galaxy, and now wonder what next?

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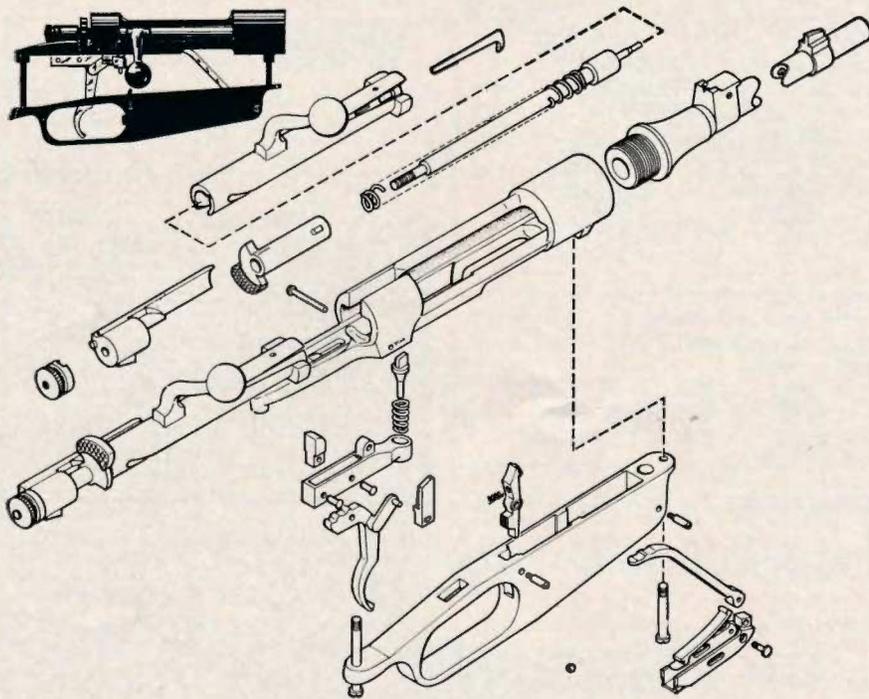
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AN INSIDE LOOK

AT THE CARCANO RIFLE

By SHELLEY BRAVERMAN



FAR BETTER than commonly realized is the design and construction of the Italian Carcano. Developed more than seventy-five years ago, it has features that remain unique to this day.

When loaded and cocked, positioning the safety to the "safe" position (rotation to left) not only locks the firing pin, but also relaxes tension on the striker spring—thus allowing the gun to be carried loaded and ready, in safety, without "setting" striker springs.

Also generally overlooked is the fact that the safety itself has a substantial lug that is positioned into a slot in the receiver when in firing position; thus, in addition to the bolt lugs, there are two other safety lugs for strength, the root of the bolt handle and the projection on the safety.

Note that the extractor design is such that the bolt face supports almost all of the cartridge case head and it was designed in 1891!

The Mannlicher type magazine requires a clip that contains six cartridges, but variants are encountered that have an Arisaka (Japanese) Mauser-type magazine. In this connection it should

be noted that the Arisaka was subsequent to the Carcano in adoption by the countries involved, Japan and Italy.

The barrels were designed for gain-twist rifling; starting with one turn in 23 inches and progressing to one turn in 7½ inches in a 31-inch barrel. Cartridges for this gun were so highly developed that the case mouths were counterbored, leaving an internal ledge for precise bullet seating. This combination consistently won the 300 Meter International Military Match for many years.

To field strip: 1) Set safety to ready; 2) Open bolt and withdraw by pulling rearwardly while pressing trigger. Bolt may be disassembled by unscrewing cocking piece after release by pressing spring-loaded locking plunger; extractor claw may be removed by pushing outward and forward from bolt face.

In 1938 some of the worn 6.5 caliber barrels were rebored to 7.35 mm; these were known as the "Model 38" but did not last very long, eventually being rebarreled back to the original 6.5 Carcano cartridge. These latter models are known as the Model 91/38.

present the ultimate in power and recoil. Both kick too much. Both are better fitted to a light carbine and not to a handgun. The .44 has proven highly popular in light, short rifles. The Ruger carbine for this caliber is a best seller. The .41, on the other hand, is deadlier than the Egyptian chances against the Hebrews. It never got off the ground. Touted as the last answer for the cops of the land the gendarmes somehow never got the word. The last sad rites can be sung over this one any day now. It will sink without a trace.

At the yon end of the spectrum the deluge of fast traveling twenty-two cartridges has fared little better. There has been the .22 rimfire Magnum, the .22 Rem-Jet, the .221 Fireball, and the .256 Magnum. Of this foursome, the .22 rimfire Magnum has the most on the ball but it, somehow, hasn't gotten much farther than the starting gate. The .22 Rem-Jet is a sort of freak. It is the .357 case necked down in a long sloping and exceedingly dreary shoulder which sets back against the recoil plate in the six gun and binds the cylinder so that it turns harder than a cylinder wheel without grease. The .221 Fireball is a spitting image reproduction of the .222 Remington. It is fired in the XP-100 pistol. This is a short rifle without the shoulder stock. It weighs 3½ pounds and has to be held in both hands. This is an awkward proposition and you need a short, handy-size jackass for a pack animal when you go afield with it. The .256 Magnum is the .357 case necked down with a rather abrupt shoulder. This cartridge is identical to the old .25-20 rifle cartridge. The bullet is the same and ballistics are similar. It is capable of excellent ballistics but, like sex after 60, it just don't catch on. These days there ain't no pistol for the cartridge. Ruger made one, a single-shot, but one-barrel, one-shot pistols these days are strictly for grandpa. The gun has been dropped from the line and I look to see the .256 cartridge follow it very shortly.

Where then are we going to see new activity in the handguns field? Why in the middle calibers, I would say. There are a lot of possibilities in those diameters from .30 to .36, that is from 7.62 mm to 9 mm. God knows it is time some attention was paid to the potential here. John Browning developed the .38 ACP in 1900, the .380 in 1908, and the .32 ACP in 1901. The .45 ACP usually referred to as the Model 1911, actually was invented by the immortal Mormon in 1905. These are old cartridges; it would be refreshing to see something new.

There are some excellent calibers

on the Continent. Some of them we are fairly familiar with; others are strangers, virtually. Handgunners know all about the 9 mm Parabellum but few see any really decent ammo for the cartridge. Our best on the score of velocity is about 30 per cent under the potential for this gun and load. Even so the 9 mm is making progress in this country. Smith & Wesson, Colt, and Browning all offer pistols. Here more recently Smith & Wesson has introduced a submachine gun for the use of law enforcement outfits. It is in the 9 mm caliber. This is the most widely used caliber by armies around the world for both pistol and tommy gun.

There are other excellent European calibers. There is the 9 mm Mauser. It drives a 123 gr. bullet at 1362 fps, a good velocity. And there is the 8.5 mm Mars, firing a 140 gr. bullet at 1749 fps. And a twin to this one, the 9 mm Mars, with a 156 gr. bullet and 1640

fps MV. Neither cartridge is loaded today. The .30 Mauser is an old timer and well known. It kicks along at 1495 fps with an 85 grain bullet; and the .30 Luger does 1200 with a 90 gr. slug. Out of the Luger carbine this was stepped up to 1515 fps.

These are all good calibers and ballistics are certainly acceptable. It isn't our contention that any of these Continentals need be accepted by our pistol manufacturers and our ammunition peoples but are mentioned simply to show the potential for new cartridges in the .30 to .36 caliber range.

A most interesting phenomenon is the .38 Super cartridge. This auto pistol round fires a 130 gr. bullet at 1280 fps and develops 475 ft. lb. of muzzle energy. This is one of the best cartridges anywhere. It is about as popular as a shepherd at the cowboy picnic. Yet there isn't a better loading for the automatic.

GUNS OF RIOTS

(Continued from page 24)

cleaned out of guns and ammunition. Another ransacked store on Springfield Street in Newark yielded rifles, shotguns, and pistols. Soon after, shots were snapping from rooftops and windows, with police and firemen as the targets. A news weekly reports that the radio conversation during the battle went like this:

Police Officer: "We're sitting ducks out here—give us the word. Let us shoot." Then as Molotov cocktails joined the hail of bullets: "We're getting bombed here. What should we do?"

Dispatcher: "Leave."

In Plainfield, Officer John V. Gleason was knocked to the ground, stomped, and then shot to death, with his own service revolver. And so New Jersey, with its brand new anti-gun legislation, was rocked by violence, not only by the violent sounds of gunfire, but the deadly tinkling sound of firebombs. I doubt that anyone will reveal the sources of the guns of violence—especially if it is found that the greater majority of them were stolen—but all of the indications are that the sniping and gunfire occurred after guns and ammunition were removed from looted stores.

As this is being written, in late August, some 120 towns across the nation have felt the effects of lawless rioting—and the long hot summer is not yet over. And, as the lawmakers of the country continue to try to dis-

arm the law abiding citizen, the lawless few will be as well or better armed than ever. The man sniping from a rooftop is totally unaware of the number of laws he is breaking, and if one of them is a law against owning a firearm, he really couldn't care less.

Bill Storck, who admits that although he is in the gun business, he never became involved in discussions as to the merits of gun laws, stresses that the riots of the last few weeks prove to him that new, tougher gun laws will not keep firearms from the hands of the lawless. "We can only hope for this to come about through strict enforcement of all laws," he stated, adding, "These last few days, I was glad that I am in the gun business so that I could give help to the police when they needed it."

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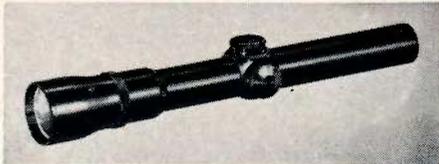
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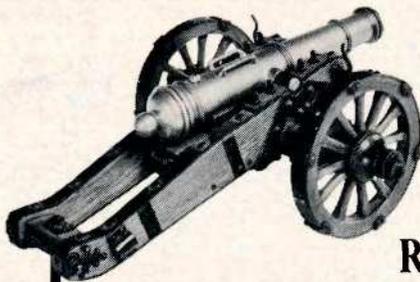


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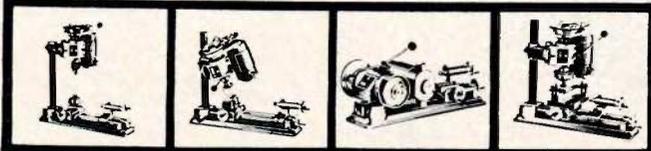
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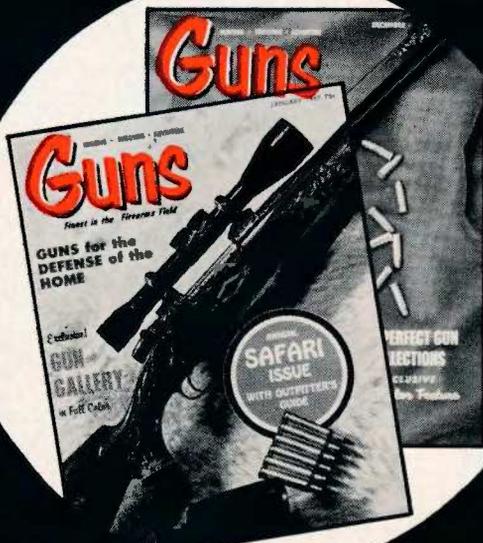
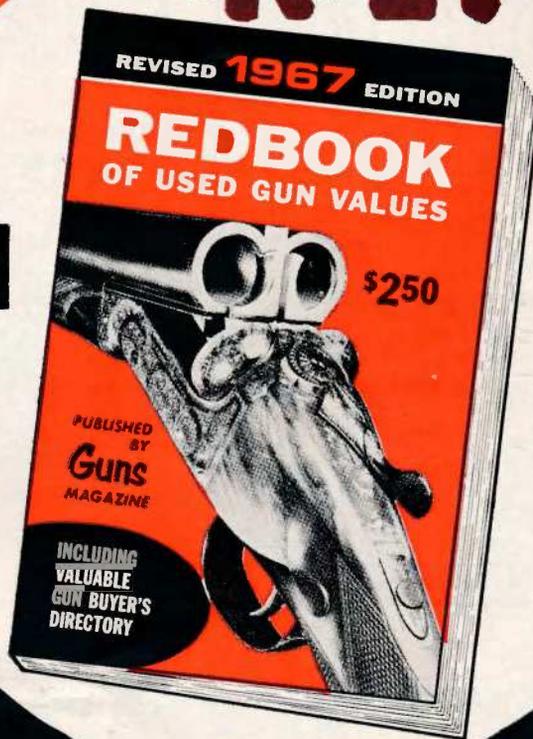
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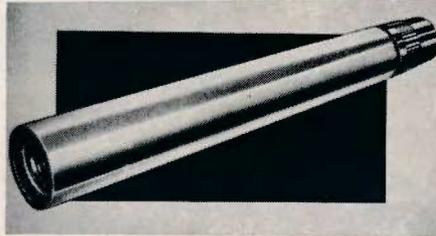


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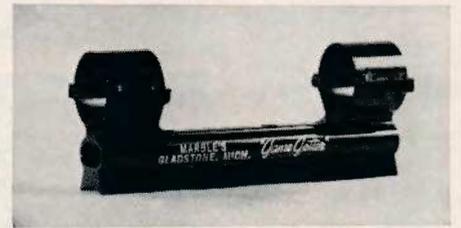
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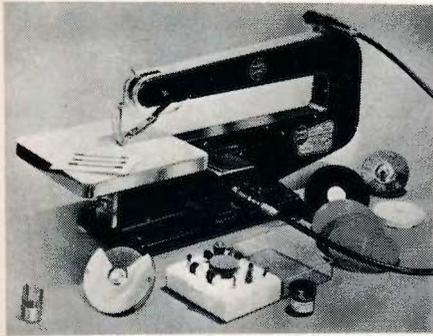
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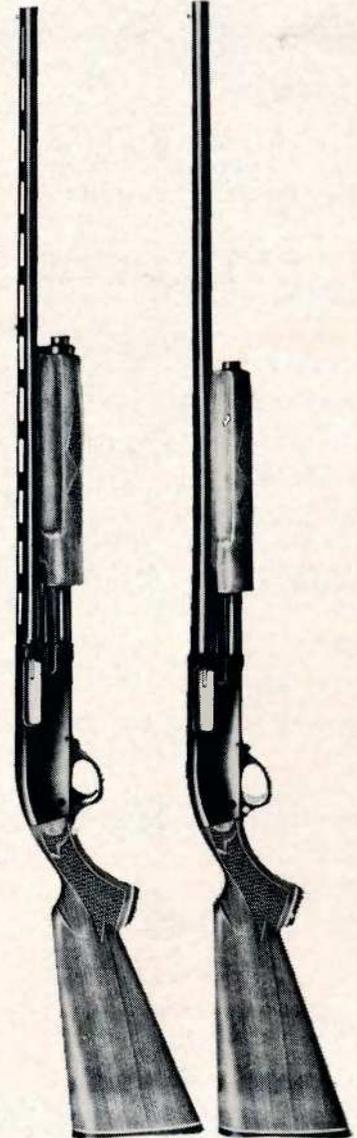
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WORLD'S GREATEST SHOOTER

(Continued from page 34)

on 1500 regulation clay targets and smashed all of them.

At the Harvard Gun Club, San Antonio, Texas, he shot at 5,000 wooden blocks. These blocks were $1\frac{1}{2} \times 1\frac{3}{4}$ inches. He missed 46. He had one run of 1,165 without a miss. The next year at the World Fair, St. Louis, he had a long run of 3,507. He was firing at discs this time, a target the same diameter as the block but more erratic in flight. In 1907 he whanged away at 20,000 wooden blocks, these sawed $2\frac{1}{2} \times 2\frac{1}{2}$, and missed only 10 during the four day stint. His long run tally climbed to 8,840 without a miss during these trials. It was obvious he was getting ready to try for the Bartlett record.

In December of the same year he moved into the San Antonio fair grounds and commenced to shoot. His goal was to fire at 5,000 wooden blocks, each sawed $2\frac{1}{2} \times 2\frac{1}{2}$, daily for the succeeding 10 days. This would come out to 50,000 targets. Now the Carver record was based on 60,000 targets and Bartlett, likewise, had shot at the same number. Just why Topperwein who wanted to set a new record planned to limit himself to a lesser number, is from this time and distance unknown. Suffice to note it did not come out that way.

Some 10 days and 72,500 targets later our Texan was all through. He had missed only 9 of the flying squares. It was a new record and such an imposing one that it cooled all thoughts of his contemporaries of trying to better it. So formidable was the tally that it stood for more than a half century, one of those landmarks in the history of rifle marksmanship which appeared unassailable and so smoking hot as to dampen the ardor of the most ambitious. While during his earlier years there were seven claimants for the world rifle championship, directly after Topperwein walked out of the Texas fair grounds the ballyhoo of his fellow exhibition shooters was muted for all time. Here, truly, was the world champion.

Topperwein and his contemporaries flourished in what is now nostalgically referred to as the "good old days." It should be explained for the benefit of those who were not there that during those halcyon days amusement was limited to the more simple things.

Hippies, teeny-boppers, love-ins, LSD, pot, pornographic movies, go-go clubs and topless parties were either completely unknown or were woefully underrated as a means for innocent amusement.

Because entertainment ran to the simpler things showmen like Topperwein flourished. While it was acknowledged that this Winchester pro was the high-run champ, this in no wise put a damper on the many others who did tricks & fancy gunning. Virtually all the larger arms & ammo makers had a man or two on the road and such was the interest that all of them invariably attracted huge audiences. Game was in abundance in those pristine days and not a small portion of every crowd contained hunters who were thoroughly accustomed to handling firearms themselves. They hunted for a full half of every year and their understanding of the performance of the exhibition shooters was keen indeed. For these and perhaps other less obvious reasons the trick & fancy marksmen enjoyed a booming popularity.

Over the years since the turn of the century the country grew and spread. Cities flourished, villages expanded, highways appeared, and the population zoomed. America, a pioneer land, became cosmopolitan and the simpler diversions, the amusements and the recreation of the oldsters were looked on as pretty square. Where once there had been Ad Topperwein, the Lindes, the Cap Hardys, the Milt Hicks, and the countless others, all were rusticated on the shelf. Maybe they put on an occasional show or made a short tour but with the new trend to tightened cost analysis by the companies, which heretofore had decided that the expense of the exhibition shooter was justified on the score of improved public relations, there was now a computer-backed analysis which indicated that it was not worth the candle. The death of Herb Parsons, who made annual nationwide swings with his shooting extravaganza, sounded taps over the tricks & fancy guns pointer. The record of Topperwein was all but forgotten.

Early in October, 1959, a long convoy of trucks commenced to unload their cargo at the Holiday Hotel
(Continued on page 76)

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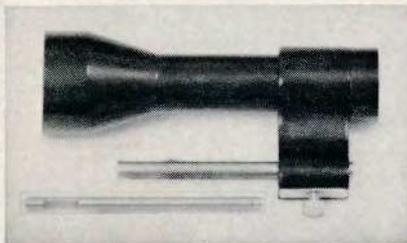


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(Continued from page 74)

Game Farm near Reno. Great mountains of wooden blocks were dumped into a lovely little meadow, a grassy pasture land turned brown and sere with the first nip of the autumn. Behind the gaggle of lumber vans came a smaller pickup truck, heavily laden. In it was case after case of rifle ammunition. A tent was thrown up, a huge affair, such as the oldtime revival meeting once saw, and ropes were strung. It was all too apparent that crowds were meant to gather, whatever this event might be. Newt Crumley, owner-manager of not only the game farm but the very posh Holiday in booming Reno, was on hand. "I've got thirty-six hundred bucks tied up in that lumber and another sixteen hundred for those cartridges. This show had better be a good one," he growled.

The crowd formed slowly. It was the day following and despite local newspaper publicity it was obvious that here was an entertainment that held scant attraction. Too, the cast had not put in an appearance. Indeed not a single member had shown up. But at eight o'clock the show went on the road.

The extravaganza was a simple one. It had a single star and a half dozen supporting members of the cast. There was a sameness about the routine which might have been thought to pall on the audience but strangely it did not. For 13 days the starring member appeared promptly at 8 each morn and he did his stuff until well into the evening. Each day the news sheets from nearby Reno gave him increasing coverage. Finally, the dailies across the nation took up the story. It was headline stuff. A national hookup TV got on the wagon and arrived to take shots and run a sequence, disturbing the performer and throwing him behind. At the conclusion of the 13th day a halt was called. The show was over. Where a dribble of spectators had casually dropped in at the beginning there were now thousands. Everybody likes to watch a record breaking performance, likes to hail the champion and indeed there was a new title holder, The World Champion Rifle Shot.

Tom Frye, a Remington field rep, is a fellow who sells guns and ammo for the Remington Company. He lived in California and traveled the Cascades visiting his dealers. He also made friends with Newt Crumley who said, "Hell yes, I'll stake you to the blocks and the ammo if you want to shoot a new rifle record!" And he did, to the tune of more than five thousand bucks! When I asked Tom

Frye why he didn't brace his company to back him in the shooting marathon he said, "I was afraid they'd turn thumbs down on it." So Frye turned to his friend Crumley and there he found a backer. He took his annual vacation and moved in on Reno.

With him he had two of the Remington Nylon 66 rifles. These are plinking .22's, with open iron sights, a one-piece nylon stock, auto-loading, holding 14 cartridges, and with a weight of only 4 pounds. The Nylon 66 in '59 was a brandnew gun. It had been designed the year before and while it looked good it had not been tried over a long string of shots such as Tom Frye contemplated.

Newt Crumley searched the all of Reno and he came up with a sturdy and dependable crew who would act as judges, loaders, scorers, referees, and throwers. He selected these assist-



Tom Frye in action.

ants with care and explained to them in detail the seriousness of the task. "I've got a lot of confidence in Tom Frye. He is going to do something out there in my pasture that is going to go down in shooting history. It will be up to you fellows to record each shot that is fired and to afterward sign every score sheet. I want it accurate. Understand?" The little assemblage nodded.

These assistants were Dave Poole, Fred Willis, Glenn Mackie, Charles Bewley, Alvin Nelson, Leslie Downs, and Bill Williams. All of them Reno residents, all in Reno today, and each is ready at the drop of a hat to recite in detail those historic 13 days that followed.

While Tom Frye was intent on bet-

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tering the Topperwein mark of 72,500 blocks he did not intend to pause there. He planned to keep right on shooting until he had amassed a tally so high that posterity would say, "Ah, to hell with it. I can't beat that one!" There were 100,000 little pine blocks, each sawed 2½x2½" in those great piles in Newt Crumley's cow pasture that October morning.

The first day there were many interruptions in the firing. Newspaper reporters wanted a word and a photo, TV personalities came out to pose, fans gathered and many had to have an autograph. Frye obliged. As a result at the end of the first day's shooting he had fired on only 3,000 targets. There were no misses.

While the rifles were Remingtons, as I have said, the ammunition was Peters, the stuff known as the "Golden Bullet," a standard velocity .22 Long Rifle. "Since I sell both Remington and Peters," Tom explained to me, "I thought it would be better to shoot Peters ammo in the Remington rifle."

At the end of the third day Our Boy had pecked away at 27,310 blocks. At the windup on the fourth evening his tally was up to 32,250. He had missed two targets. On the six day he shot at 6,475 targets and had a grand total of 43,725 under his belt. The lost column still registered only two lost blocks.

At the tag end of the seventh day, Frye was up to 53,000 targets. On the eighth day of shooting he banged out 10,500 and missed one paltry flying square of pine. At the end of the eleventh shooting stanza he had 65,500 shots behind him. He was getting close to the Topperwein record by this time. On the twelfth day he fired at the 72,501st target. The block burst into a shower of splinters. He had missed only 3 targets; Topperwein had missed 9. It was a new record! A new world record!

With scarcely a pause, the new Champ kept right on banging 'em out. At times he was shooting at 1,000 blocks per hour. This means he was popping them off at the rate of a shot and a hit every 3.6 seconds. He had to switch rifles after every 14 shots, a necessary delay but despite the time loss he was eating up the flying squares at a most remarkable speed.

On the 12th day he knocked off 9,500 targets and at times was shooting at 40 blocks per minute. On the 13th day he shot at 10,000 targets. Despite the fact that the little Nylon 66 weighs only 4 pounds this meant our iron man lifted 40,000 pounds that day!

He had by this time shot at 100,010

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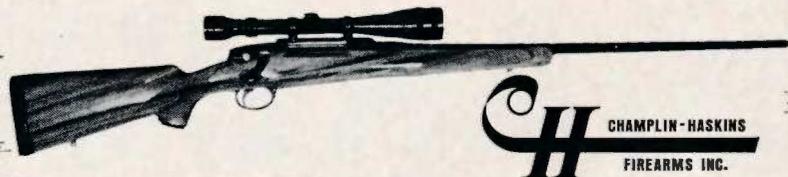
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blocks. He had missed 6. He had one long run of 32,860 without a miss: Topperwein went 14,540 as his best long-run mark. Another time Frye hit 14,322 without a bobble, and still a third longrun for him was 13,017. Not only had he broken every shooting record ever established but he had gone ahead to hang up a new mark the like of which I reckon will stand for all time.

What kind of a bucko is this rifleman, this champion, Tom Frye? He is, as you might suspect, an athlete, a veritable superman, if you will. He is a big, handsome type with shoulders like Paul Bunyan, a cowboy's trim hips, 16-inch biceps, and a bouncy swing to his gait. Six feet and three inches tall and two hundred and five pounds, I'd gladly match him against Cassius Clay any day. He is every inch fighting muscle. He played football in college; could play again today if he was of a mind. He is tough and hard and conditioned. He doesn't touch the filthy weed and abhors the demon rum. He doesn't overeat nor overdrink nor overindulge, nor do anything that is likely to do harm to the razor-sharp coordination which permitted him to aim that pair of little

plinking Remingtons more than one hundred thousand times and literally never miss.

Topperwein after he had completed his shooting stint had to be carted off to bed. He was completely done in. When Frye wound up his extravaganza, Lee Braun, his boss, got off a wire of congratulations and toward the bottom appended the following: "Get right on over to San Jose [Calif.] I want you to put on a shooting show for the Boy Scout encampment there." Says Tom, in laughing about this one, "I had used up all my vacation time with the shooting so I had to go and pronto. San Jose was in California and there I was in Reno."

People ask how this virtual unknown, this Remington-Peters guns & ammo peddler, could just decide one day he was going out and bust a shooting record which had stood for more than a half century. A rundown on this hombre Frye gives a lot of insight into this one.

Tom Frye is one of the hottest articles on the trap fields of North America. He has been a member of the All-America Pro Trap Team for 14 years. You are selected for member-

ship by Jimmy Robinson who bases his nominations of the all-season performance of the candidate. Tom is so good he was twice named captain of the squad! In 1957 he shot his way to three world professional championships. He won the All-Around (500 clays including 100 doubles), the High Overall (1000 mixed birds), and the Handicap Championship. His forte is trap shooting but he is big poison at skeet too. One year he decided he would concentrate on the game and at the end of the year Jimmy Robinson placed him on the coveted All America Pro Skeet Team. Tom was an officer in the Air Corps during WWII and as you might suspect he was promptly knocked off to be an instructor in the Air Corps gunnery school. He taught skeet among other subjects and one time had a straight run of 1,134 targets without a miss.

Frye is at home in Billings, Montana, these days. He has now been with Remington-Peters for 19 years. Besides selling the guns and the ammo Tom is probably the only rep who combines a program of exhibition gunning with his sales efforts. He's the last of the great showmen and champion of them all.



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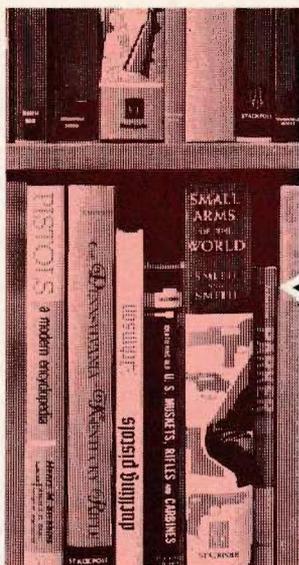
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SHOOTING PRESERVE MANAGEMENT

By Edward L. Kozicky and John Madson
(Winchester-Western Press, 1967. \$4.95)

Kozicky and Madson are both top names in the field of game conservation and management, and few men indeed have had the opportunity to test theory against practice as thoroughly as these men have had in the operation of that field laboratory and sportsmen's mecca known as Nilo Farms—the Olin Winchester-Western Game Farm located near East Alton, Illinois. Nilo is Olin spelled backward; but there has been nothing backward about the methods used at Nilo, and the success of those methods is obvious to every guest lucky enough to experience Nilo hospitality. A primary aim of Nilo management has been to discover how to produce the most shooting sport of the best quality for the most people on a relatively small acreage. The results speak for themselves to every hunter who shoots from Nilo's blinds or over its lush fields; and now Kozicky and Madson tell how this was accomplished. This book is a "must" text for anyone who wants to build a game preserve, and to any land owner who wants to improve game conditions on his acreage. But it is more than that: it is also a gold-mine of information for the hunter; information about game habits, game dogs, gun handling, shooting promotion, shooting practice—down to and including how to dress your birds, and how to cook them. All beautifully written, copiously illustrated, and thoroughly annotated. Order from Conservation Department, Winchester-Western Division, Olin, East Alton, Illinois. You won't be disappointed.—E.B.M.

HISTORY OF WINCHESTER FIREARMS 1866-1966

By George R. Watrous

(Third Edition, Edited by

Thomas E. Hall and Pete Kuhlhoff.
Winchester-Western Press, 1966. \$10.00)

First issued in 1943, this book has been ever since a reference textbook for all who sought specifications, descriptions, and historical data about Winchester guns. The second edition, 1950, carried a summary of extensive new information about early Winchester history, Winchester models, and model developments. This edition brings the work up to date; and it is the first edition to be publicly printed and offered for general sale. This is the Winchester story, straight from the horse's mouth. But it is also an essential contribution to the overall history of firearms development. In this deluxe, boxed edition, it's a bargain. (Also, a gift to be remembered!).—E.B.M.

SHOOTER'S BIBLE PISTOL AND REVOLVER GUIDE

By Major George C. Nonte, Jr.
(Shooter's Bible, Inc.—Stoeger Arms Corp.,
So. Hackensack, N.J.)

GUNS' Military Editor has written one of the most complete books ever prepared on handguns. Maj. Nonte presents all facets of selecting, using, and caring for pistols and revolvers. He makes a tremendous effort to tell the reader everything he needs to know to make an intelligent comparison between the hundreds of models currently available. He discusses such accessories such as grips, sights, and holsters. He illustrates cleaning and maintenance technique. Nonte has special chapters on handloading for handguns, buying a used gun, and even on minor repairs you can do yourself.—E.P.

SURE HIT SHOTGUN WAYS

By Francis E. Sell
(Stackpole, 1967. \$5.95)

Francis Sell is an Old Pro. He has written many articles for many magazines on many phases of guns and shooting, and some of his articles have stirred up considerable controversy. Having edited and published such articles, I suggest, however, that you be sure you understand what Sell says before you say he's wrong; for Sell is an Old Pro, too, as a shooter. He tests his theories from behind the gun, which is a position of considerable authority. You may not agree with him as to which gun, what load, or how to use them; but here are some of the clearest explanations of the relationship between target flight, shot flight, and shooter habits that I have seen—plus a simple formula of range estimation that should save you a lot of ammunition, get you more birds, and explain a lot of those misses you've been attributing to "blown patterns!" Those tips on range estimation alone make the book worth the money.—E.B.M.

AMERICANS AND THEIR GUNS

Compiled by James B. Trefethen
Edited by James E. Serven
(Stackpole, 1967. \$9.95)

The life story of the National Rifle Association, in words and pictures: That is the theme of this book, but it is more than just that. It is the story of civilian marksmanship training and competition—and, in effect, the story of firearms legislation—over nearly a century. As promised on the book's cover, "Many history books record the gun as an instrument in shaping the destinies of men and nations; even in the wars of this atomic

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By Leonard Lee Rue III
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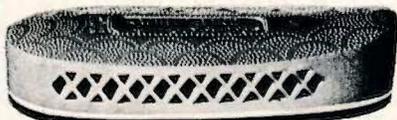
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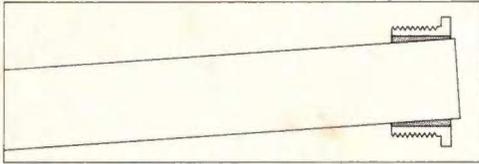
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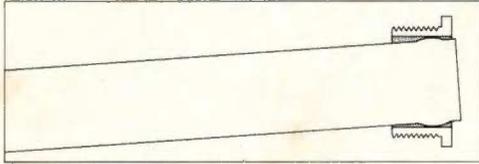
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WAMMES GUNSHOP, 550 E. Sandusky, Bellefontaine, Ohio 43311	69
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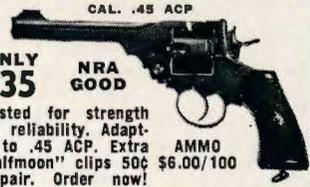
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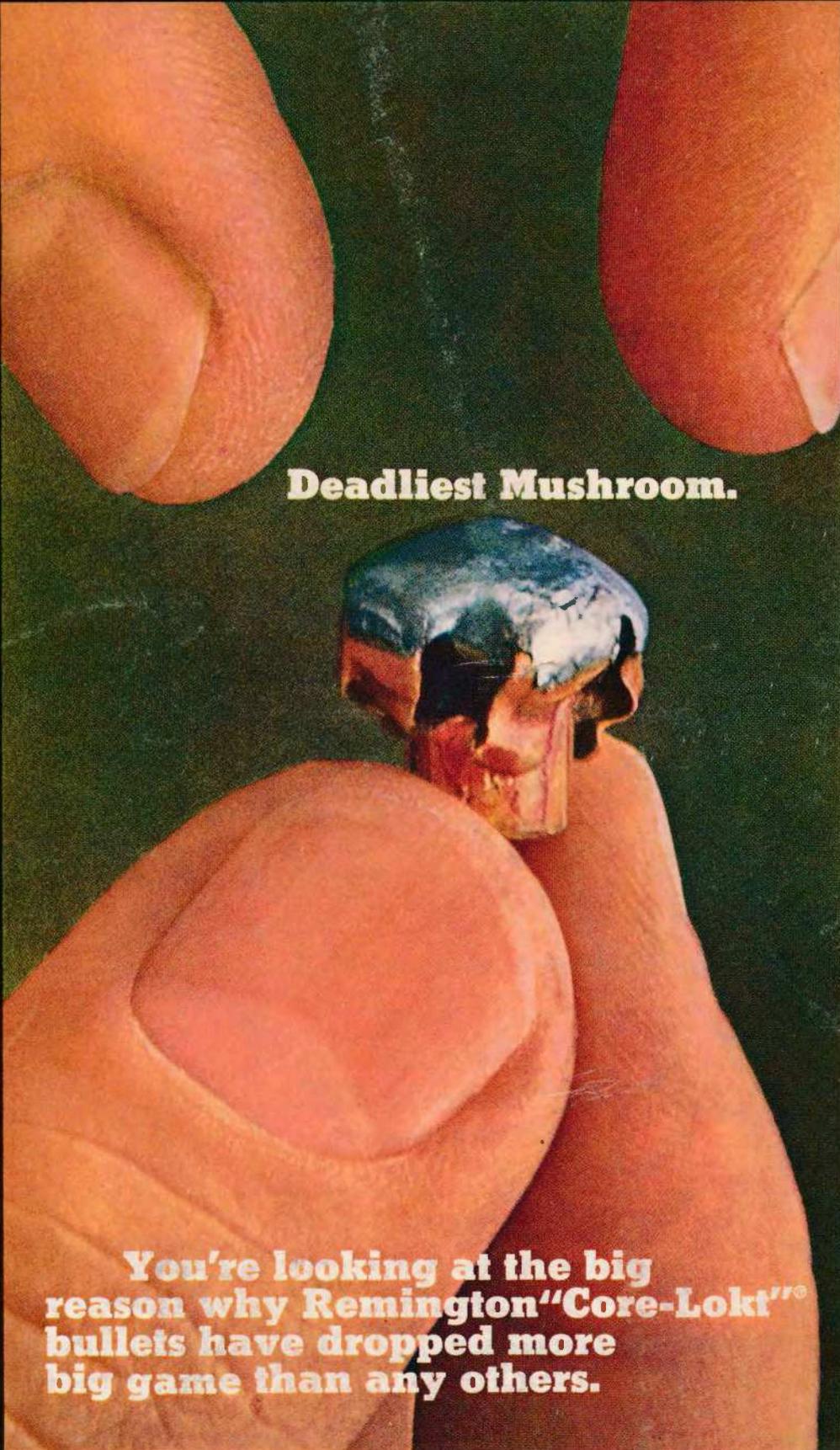
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