

SEPTEMBER 1964 50c

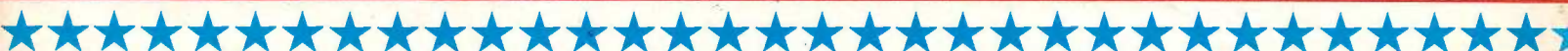
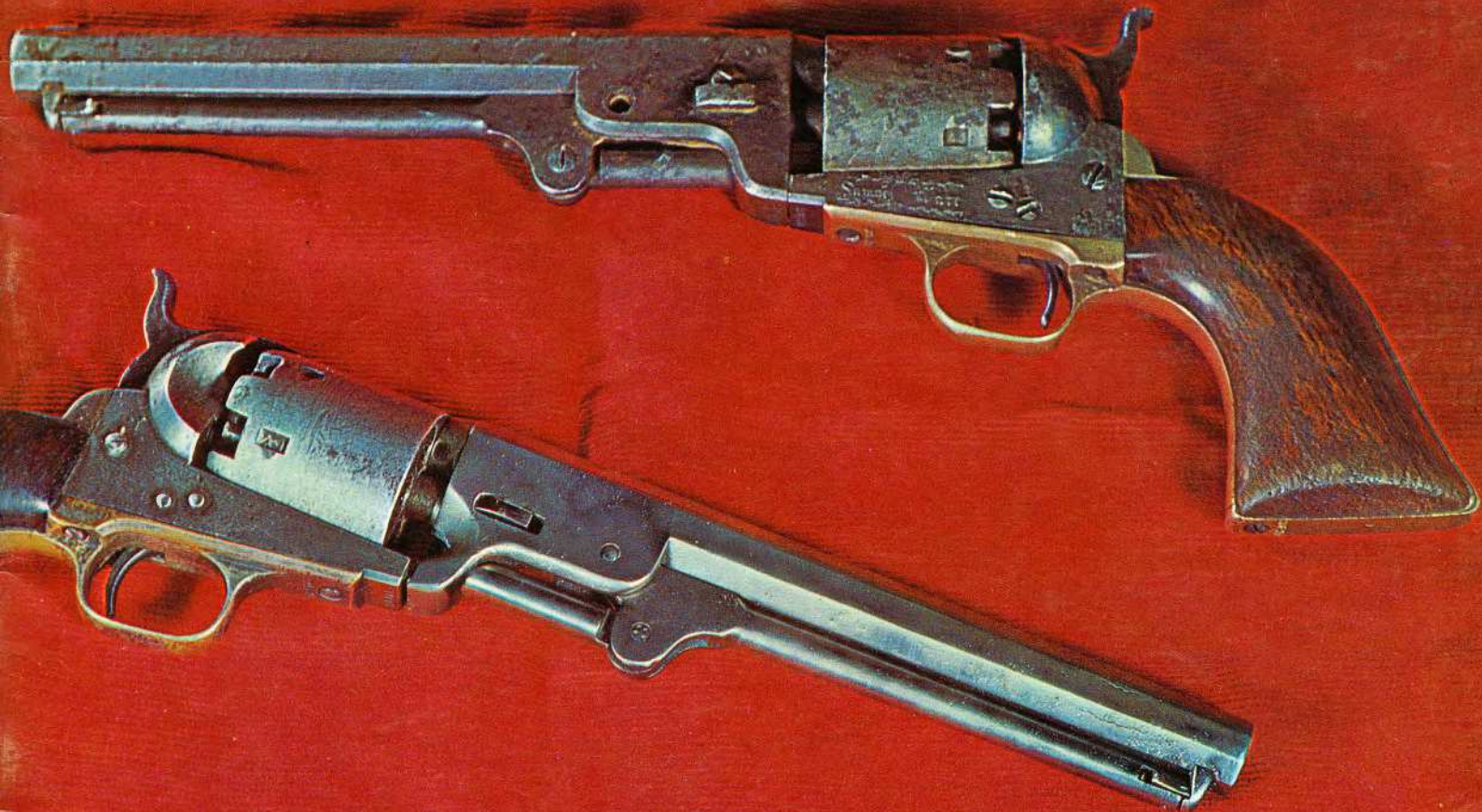
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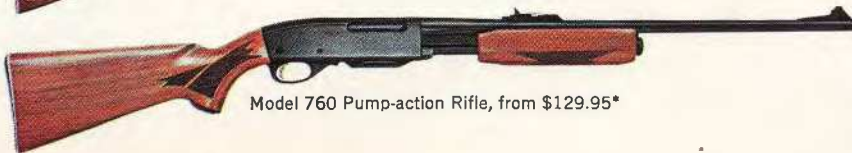
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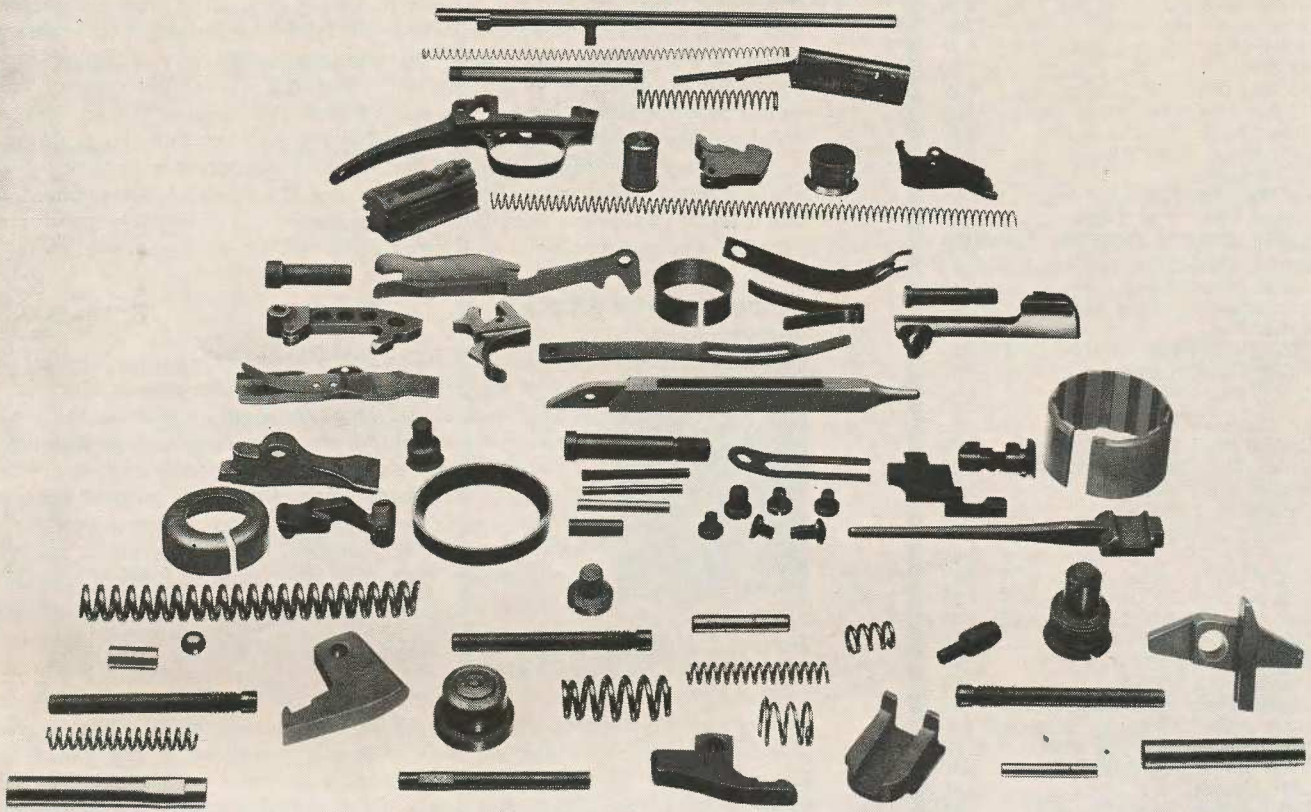
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 \*The round bronze friction piece of the shock absorber unit on the lower right side of the photograph. It performs its specialized function better than steel.

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### Congressman Craig Hosmer California

*It seems to me that any state or local laws with respect to gun possession should be concerned primarily with control over the sale of weapons. They should establish criteria for persons to whom gun sales may be permitted and for such other persons to whom the right to purchase is prohibited. Under such statutes, the legitimate sportsman and gun collector would encounter no difficulty in the pursuit of his hobby, and the general public would be afforded at least a measure of protection against the criminal use of guns. The burden of responsibility for the sale of guns to undesirable persons should rest upon the gun dealer, with appropriate statutory penalties provided under state law. Intrusion by the Federal Government into this area of regulation must be kept at a minimum. Otherwise, the people's constitutional right to keep and bear arms will be infringed.*

### Congressman W. R. Hull, Jr. Missouri



*It is difficult for me to believe that strict firearms laws affect the crime rate to any great extent, since in the absence of complete government regulation the lawless can invariably obtain deadly weapons from illegitimate sources. While I do little hunting myself and do not keep firearms in my own home, I certainly respect the rights of those who own guns for sport shooting and for the protection of their families. I do not want to see these rights denied through further state or federal legislation.*

### Daniel J. Flood 11th District, Pennsylvania

*The right to keep and bear arms is one of the fundamental freedoms enjoyed by the American people from the very earliest days of the Republic. It is a part of our heritage which is so deeply engrained in our people that it was written into the guarantees carried in the Constitution. We have come a long way since those early days. Conditions are vastly different. But the fact remains that private ownership of guns in this broad land is invaluable for personal and national defense, sport, recreation, training, even education. There have been repeated efforts to infringe upon this guarantee; none have been successful nationally. It is still vital that this heritage be maintained for freedom-loving Americans, and this is something that requires constant and universal vigilance.*

### Congressman John Dowdy 7th District, Texas

*The Second Amendment to the United States Constitution has my full and continuing support and endorsement. Like our forebearers who framed this Amendment, I believe our country and our system of government is better served by the right of the citizenry to keep and bear arms.*

*Much has been said about reducing the crime rate by restricting the right to own and carry firearms. Regardless of how many restrictions have been placed on the ownership of guns, the crime rate has not been lowered thereby. Since the criminal element does not respect law and order, whether or not there is a law on the books to prohibit or control firearms and usage of weapons, it will be of no consequence to them.*

*I shall continue to support the Second Amendment with consideration for the original intent of its framers.*

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



# Guns

FINEST IN THE FIREARMS FIELD

SEPTEMBER, 1964

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### THE COVER

These two fine Colt 1851 revolvers are a part of the Mormon collection in Salt Lake City, Utah. Top gun, engraved "Samuel Ware," belonged to an Indian Fighter during the Black Hawk Indian War in the 1860's. It was also used by an adopted Indian during the attack on Fort Ephriam, Utah, in the 1860's. Color Photography by Nelson Wadsworth, Salt Lake City, Utah.

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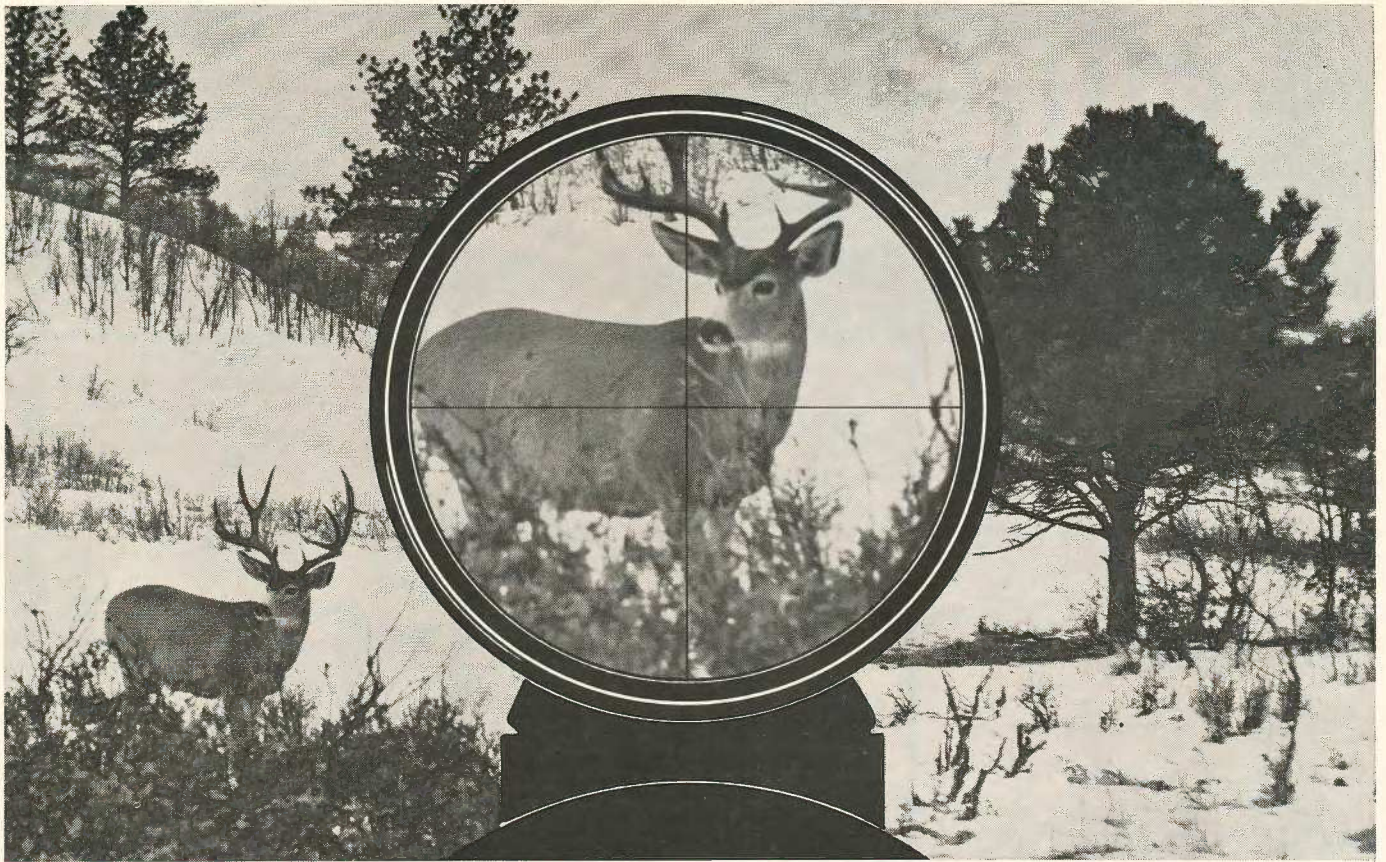
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\*The Winchester-Western Division, Olin, has reviewed the safety aspects of the above method of drilling and mounting, and has indicated there should be no safety problem, provided our mounting instructions are followed exactly. (for .30-30 and .32 SPL calibers only.)



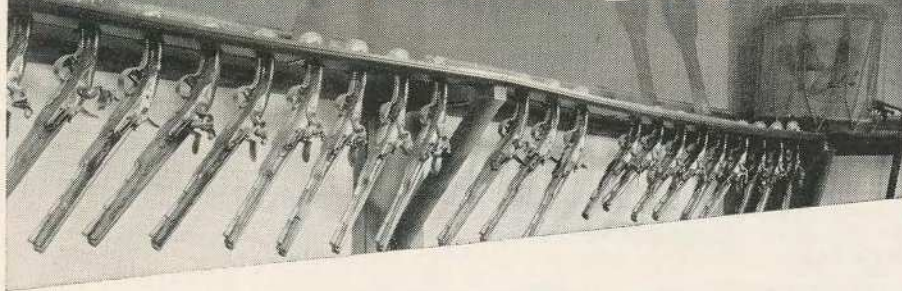
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# GUN RACK



## Pachmayr News

The Pachmayr name means many things to many people. Frank Pachmayr, the genial trap addict, recently shipped a box of goodies for tests and some of his latest recoil pads are certainly worth seeing. Brand-new is the Merston Sure Grip rifle butt pad. We liked this one especially, and there is not the slightest chance of slippage—the heavily serrated butt plate keeps the gun at the shoulder. We stuck the pad on our target rifle, and putting a little case lube on the pad did not allow it to slip from the padded shoulder of our shooting coat. The other recoil pads are for the shotgunner, and again they absorb recoil very nicely—we fired 200 rounds of trap and in a light sport shirt only...there was not a mark on our shoulder! The shotgun pads are available in target and field style, and the entire line of pads will be available shortly.

Also new, or at least re-designed, is the Pachmayr Adjustable Scope Bracket. Put it on your pistol box—and preferably of course on one of Frank's Lok-Grip tray boxes—mount your spotting scope, and you are ready for the next big match.

## Keeping Records

Do you know the serial number, make, and cost of your guns? Do you have a record of how much you sank into gunsmithing costs for your rifles, shotguns, or handguns? If you don't have this information handy, but want to keep track of it, get a copy of the Personal Firearms Record book. This little booklet has space for 32 guns, costs only two dollars, and a sample firearms sales form is also included. You can get your postpaid copy by sending a check or money order to Personal Firearms Record Book, Box 201G, Park Ridge, Ill. 60068.

## Insulated Rubber Boots

For years I have worn a pair of insulated rubber boots, and they weighed a ton—or so it seemed at the end of a long day in the fields. Bristol Manufacturing Corp., Bristol R. I., now has an insulated rubber boot that offers a great many advantages, and best of all, it is light weight. The Thermoboot was developed during the Korean conflict, and those of you who were there will remember the "Mickey Mouse" boot that made history by making frostbite a court martial offense. The Bristol Thermoboot has the same basic principles as the GI boot, except that the tabs are gone, the boot has been streamlined, and also lightened. The boots will keep you warm, they will keep your feet dry, and

Bristol's research department men have discovered that the Thermoboot works very well if worn without socks. Light wool socks will keep you comfortable, and we liked the ankle support the boot offers. Hunting season is not too far off, and you can get your Thermoboots at your sporting goods store for only \$16.95.

## Winchester Model 94

The old Model 94 has undergone some internal changes and the receiver is now made of a special alloy. There is also a newly designed link, a new locking bolt, and the safety catch has been lengthened. In the course of checking out two new scopes for this rifle, we finally got around to check the Model 94 itself.

Like all lever-action rifles, ours is still a bit on the stiff side and right now we would say that she'll loosen up very nicely by the time the next hunting season rolls around. The real surprise came when we started the bench rest sessions. The .30-30 has never been known as a gently recoiling gun, but subjectively speaking, it seemed that the recoil was considerably reduced. Firing 5 shot strings from the 100 yard bench, we consistently grouped the shots in 1.5 inch groups, but this we hasten to add, was done with scopes. We used the W-W 150 grain loads, and no attempts were made to handload for the gun. All in all, the new Model 94 was a very pleasant surprise, and we are saving the targets as proof that the 94 does the job.

## Lee Loaders

We recently gave the Lee Loader in 12 gauge and in .30-06 a real workout. Made by Lee Custom Engineering, Inc., Hartford, Wisc., these tools are simple to handle, and the ammo we made up was as good as any we have ever made. Lee does not make any claims about speed, but if you are interested in packing along a small loading outfit for your hunting camp, I would certainly suggest that you consider the Lee Loaders.

## Ray-O-Vac Flashlight

Over the years, I have used and owned a number of powerful flashlights, but even some of the really big ones never gave me the length of beam that I wanted once in a while. And the ones that offer that seemingly endless beam, are usually so big that they become unwieldy for routine use. The Ray-O-Vac Company now has a real beaut on the market. Technically, the catalog number is S367F, but the better name for it is Superpower Sportsman searchlight. This light

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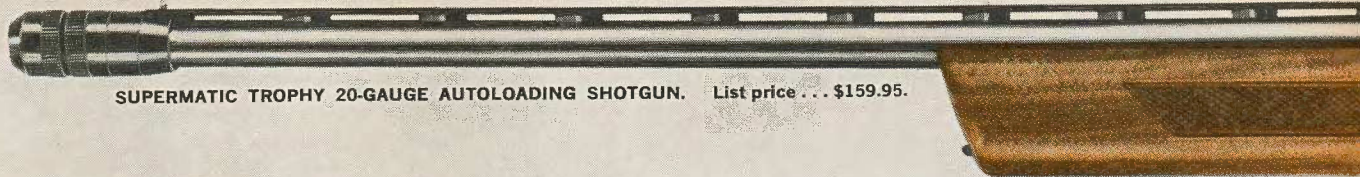
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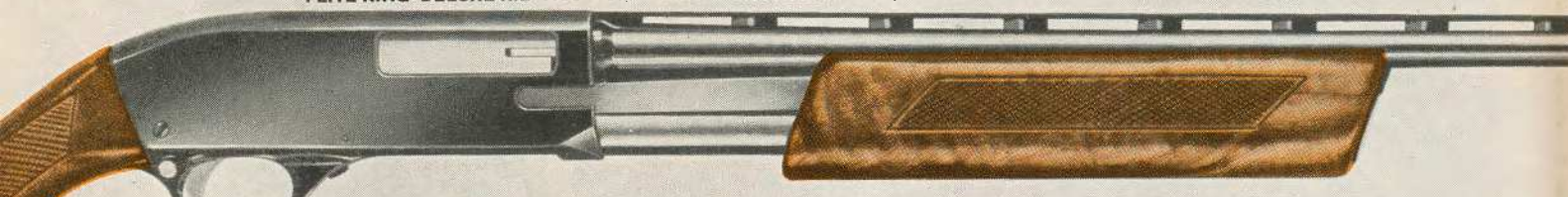
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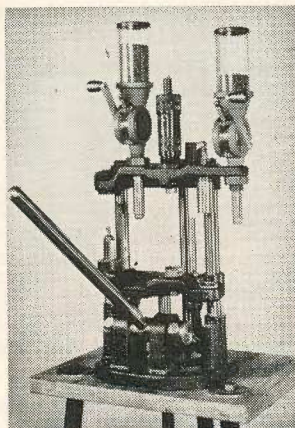
**FLITE-KING .410 GAUGE SHOTGUN:** Pump-action faster than most autoloaders. Four shots before the first empty hits the ground. Balance and feel to satisfy skeet champions. Shoots 3" magnum and 2½" regular shells.

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starts out with seven batteries, can be converted to use 6, 4, or 3 batteries. When loaded with 7 batteries, there is a handy provision for a leather carrying strap, and when you change the light over for 3 or 4 cells, you must also change the bulb that is hidden behind the reflector. All in all, the Super-power Sportsman searchlight is just what the doctor ordered, especially for the coon hunter, and those of us who camp out a great deal. It should be a real help when you come back to camp late at night across a lake from a moose hunt or night fishing.

## Val-Scott Reloading Press

The Val-Scott shotshell loader is a straight line tool where the operator moves the shell



to be reloaded from station to station. In contrast to most other such tools on the

market, this loader can be easily adapted to load metallics, both rifle and pistol. Noteworthy on the Val-Scott shotshell loader are the wad seating, the main ram that goes through the bottom of the tool and thus requires a hole drilled through the bench, and the excellent sizing and crimping that is done by this machine.

Bob Sanford who owns the Val-Scott Shotgun Reloader Co., 626-G Casserly Rd., Watsonville, Cal., demonstrated the tool to us at the RCBS shop in April, and he produced better than 6 boxes of shell per hour. While testing the loader in our testing laboratory, we did not attain this speed, but were able to crank out about 4.75 boxes per hour. Shotshell loading is of course an acquired skill and there is no reason to doubt that an experienced operator could eventually learn to make six boxes of ammo per hour.

The powder and shot measures used on the tool are standard RCBS measures, and extra large hoppers are available. Presently the tool is available for 12 gauge, but the other gauges, including .410, will be on the market shortly. An 8 point crimping starter is available as extra, and the tool, when used for loading metallics, performed in a satisfactory fashion. Primer seating is a bit more complex than we liked, and the tool cannot be converted to automatic primer feed the way it stands right now.

## New Alcan Wad

Flite-Max is a single unit wad column that is ready and complete for use. Basically, it consists of the Alcan plastic Air-Wedge wad, topped by the Alcan Feltan-Bluestreak wad,

and this in turn is topped by a plastic sleeve. We have reported on each of these components that are used in the Flite-Max previously and found this combination exceptionally satisfactory, not only in handling and loading, but also in shell performance on the trap range. The Flite-Max is available in six different wad column heights, but is marketed only for the 12 gauge at the present.

## Leupold Scopes

Leupold & Stevens Instruments, Inc., of Portland, Oregon, recently sent us two scopes for tests and evaluation. There is little that we can add to the reams that have been written about Leupold rifle scope quality. We gave both scopes first the deep freeze tests, then fogging and immersion tests, then the drop tests, and finally the optical check that is performed on the rifles where the scopes are compared against known standards.

Very new and very interesting is the M8-2X scope. Designed primarily for the Winchester 94 with a special Detach-Mount ring and base, the scope also did very well on two handguns, the S&W Jet, and a Ruger Super Blackhawk. For the Model 94, it should be noted that the barrel does not need to be drilled and tapped, and that when the scope with the rings is removed, the base can be used as iron sights. It is however necessary to drill and tap the forearm band, but the band does not require removal for this job. The eye relief of the M8-2X scope is not critical, and this was proved by mounting the scope on the Jet. Mounts for various handguns are available from Maynard Buehler, and these mounts are sold in all better





**SUPERMATIC TROPHY TARGET PISTOL.**  
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of 101 High Standard shotguns

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gun shops. The field of vision remained clear and sharp, even when the handguns were moved back and forth, and Leupold's claim that eye relief is not critical was verified easily. The scope has a 25 ft. field of view at 100 yards.

The other scope is a variable power, 2X-7X, and the scope furnished us was equipped with the Duplex crosshairs. This Duplex crosshair has a set of medium heavy crosshairs that do not taper but suddenly slim down—with a woodchuck centered in the scope, the heavier parts of the crosshairs simply "point" at the target, while the thin center part of the crosshairs are easily visible against a light target or the red overcoat of a fox.

The variable scope weighs only 10.75 oz. and is not quite 13 inches long. Optically, it rates extremely high and it stacked up very well in the tests. Also new is another crosshair, this one is of the tapered kind, and the still newer post and crosshair set up in Leupold scopes should find great favor with those who like to use posts.

The variable scope retails for just under \$80, the M8-2X scope for the M94 and the handguns for just under \$40. This scope is available only with the standard crosshairs at the present.

## Parke Primer Seater

It is fairly generally conceded that faulty primer seating is probably the major fault for poor handloads. Primer seating depth has been discussed a great deal, but too many handloaders do not seat primers deep enough. The Parke Positive Indexing primer seater will seat each and every primer exactly

0.005 of an inch below the case head. The PPI indexes against the case head, and therefore high, low, or crushed primers are a virtual impossibility. The PPI is available for flat-base primers only, and presently only the large rifle or pistol size is available. The small size is slated for early delivery. The PPI is suitable for only a few presses, such as the C-H, the RCBS, Pacific, and the new Savage press. The PPI retails for \$3.00 post-paid from Parke Precision Products Co., 842 Crestfield Dr., Duarte, Cal. Write for full information and when ordering, specify what press you'll be using.

## LLF Swaging Dies

Interested in swaging your own bullets and making a fine HP bullet? Then try the LLF swaging dies! The dies, retailing for \$57.50, are available for a wide range of calibers, and when you order the dies, you should specify what tool you want to use them in.

LLF dies are precision made, appear to be hand polished, and if you follow the detailed instructions in determining core length, core seating in the jacket, and the actual swaging, it is virtually impossible to make poor bullets with these dies. Although the cost might appear to be steep as far as dollars and cents are concerned, don't forget that the dies will last you for many, many years, and then the initial cost becomes really low. All bullets are precision made, soft-swaged, hollow-point, and the following calibers are now available: .17, .20, .227, .228, .230, 6 mm, .25, 6.5 mm, .270, 7 mm, 7.35 mm, .30, .303, .32, 8 mm, and .333.

## Rifle Rest

The Micro-Rest Corp., 217G Merrick Rd., Amityville, N.Y., offers a shooting rest that is attached to the rifle, a bipod on the fore-end, and a butt rest fastened to the stock. The Micro-Rest is adjustable, and when not in use, can be detached from the two plates inlaid in the stock. The bipod rest can be adjusted for elevation and the leveling is adequate so that the shooter is not restricted to using the rest on level ground only.

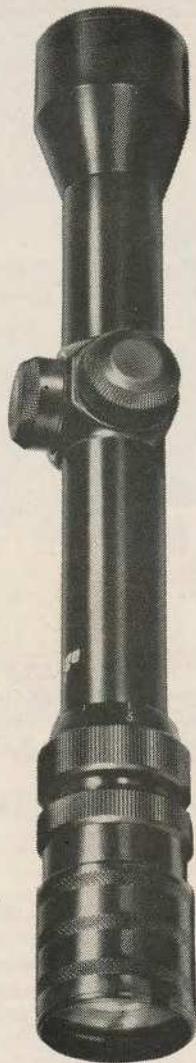
The entire rest weighs only 24 ounces, is made of high tensile strength aluminum, and is corrosion proof. It retails for slightly under \$30, and the rest carries a lifetime guarantee. The inlaid of the mounting plates can be done by the shooter, or you can have the job done by your gunsmith. The claim that the rest also absorbs some of the



recoil was not verified in our tests, but the largest caliber gun we used for tests was a .270 which is not really a hard-kicking caliber.



As fine a variable  
as money can buy



But it costs  
only \$64.50.

There's no finer variable scope for all types of hunting, in woods or open country. The Consta-Center reticle stays centered at all times—never magnifies. Double-cam action assures constant focus... adjusts instantly for any magnification from 3 to 8 power. Lenses are precision-ground, hard-coated—no distortion. Lightweight, rustproof tube is hermetically sealed, nitrogen-filled—can't fog. Micrometer dial adjustment—can be reset to zero. This dependable, all-purpose scope is individually tested and fully guaranteed. See and compare the Savage Model 3833 for bright-ness and value—unequaled at **\$64.50**

Savage offers a complete line of 22 rifle and hunting scopes starting at \$9.75. Sold only by retail sporting arms dealers.

**FREE!** 40-page color catalog of Savage firearms and accessories. Write: Savage Arms, Westfield 93, Mass.

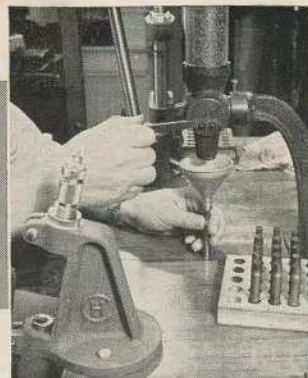
Prices subject to change. Slightly higher in Canada.



**Savage**

## HANDLOADING BENCH

By KENT BELLAH



### The Versatile .38-357

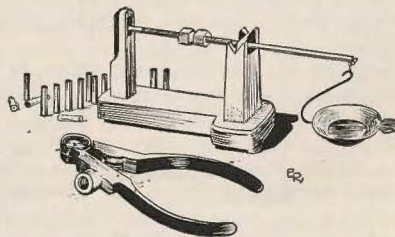
**T**HE .38 SPECIAL is a most remarkable and versatile cartridge. It's by far the world's most popular revolver round for hunting, targets, plinking, police use, and defense. That's justified because it has more good features than any other cartridge. Probably more are reloaded than all others combined. Ammunition is readily available in country stores, and around the world. We have a larger selection of good .38-357 bullets than in any other caliber.

A .38 is the favorite of most top hand-gunners, entirely adequate for nearly any use, and superior for most use. No other round is so highly perfected. A novice can master it easier than any other for fast, efficient gun handling for deadly accuracy. Seasoned shooters choose it because they can shoot it more accurately. They correctly place a much higher value on accuracy than power.

More fine guns are available for the .38 Special than any other caliber. They include the powerful .357 Magnums, and the world's finest custom guns, such as the Clark-Colt custom pistols, and the custom Colt Officers Model Match revolver.

Smith & Wesson introduced their .38 Special Military & Police revolver in 1902, basically the same as all their current light "K" frame revolvers. The round was a more potent version of the old .38 Long Colt, proved an inefficient man-stopper in military combat. One trouble was sub-standard, under charged ammunition. Some bullets wouldn't get to the 25 yard target! The 148 gr. bullet was backed with 14.4 gr. FFFg black powder.

The new Special used a 158 gr. bullet ahead of .20.6 gr. of messy FFFg in a weak,



folded head case. The case was changed to a better balloon head, then a strong solid head, with 3.6 gr. Bullseye smokeless and N/M, N/C primers. This service load runs 15,000 psi at around 855 fps from a 6" revolver today.

S & W thought they had an ideal military

and police weapon. The military, red faced over failure of the .38 L.C., didn't want anything called "thirty-eight." They tested it, classed it 4-F, and chose the more potent .45 ACP. This might not have been the best choice. The .38 was easier to shoot with better accuracy than the Army mule. It's bad for civilians to handicap themselves with a hard-to-shoot sidearm, and worse for the military and police.

By August, 1959, S & W had made over 2,500,000 "K" frame guns. I don't know Colt's production figures, but the total is tremendous.

Wadcutter loads were available in Mid-Range and full charge, the latter being discontinued long ago. It was an efficient service load. Perhaps sales were poor because it didn't "look potent" with deep seated bullets. The uninformed public places a higher value on "looks" than efficiency.

Old flat base wadcutters lacked the accuracy of hollow bases, originated by Ed McGivern, the greatest handgunner of all time, in 1916. McGivern set many records with Colt and S & W .38 Specials that have never been equalled, in fast and fancy hand-gunning. His wadcutter design is used in all Mid-Range factory ammo today.

Federal tried flat base wadcutters when they entered the metallic cartridge field. Accuracy was poor. Switching to their version of McGivern's hollow base resulted in some of the finest Mid-Range Match ammo ever factory-loaded, listed at 770 fps in a 6" revolver. Lot No. A 36 A2 SW M38A averaged 739 fps in a 6" S & W .357 Magnum, varying from 705 to 768 fps. This rather large spread of 63 fps for Mid-Range Match ammo shot so well because of the bullet design. Their first flat base bullets had no larger velocity spread, yet accuracy was poor. This first lot, not labeled "Match," did not reach dealers. Lots in boxes not labeled "Match" that reached dealers had the better hollow base bullets.

Speer's new .38 Hollow Base Wadcutter groups better than any bullet we have tested. Speer improved the McGivern design by making the forward bearing surface near land diameter, and the rear near groove diameter. The beveled base eliminates "fins" from rifling displacing metal, and aids straight-line seating. The hollow base expands to fill grooves perfectly in tight or sloppy bores. It's ideal for over 98 per cent of all handgun varmints and game.

Novice hunters will doubt this statement. They think hot loads are necessary for nor-  
(Continued on page 15)



# CRASH!

# CRACK!

# BLAM!

# POW!

## How to separate the men from the boys: Lyman cast bullets

What separates the men from the boys in shooting? Is it big noise, shoulder-busting recoil and high cost hot-loaded jacketed ammunition? Or is it squeezing off the kind of ammo your gun and your target require?

Granted, maximum loads and jacketed bullets have their place: for extreme ranges or sure stops of big, dangerous game. But how about White Tail deer, woodchucks, targets, tin cans, backyard and basement practice — the all-year-round kind of shooting?

You choose the kind of load and bullet you want for various shooting conditions:

**CRASH!** For longrange kills at bear-and-moose-stopping terminal speeds, you'll want a hot load with the finest jacketed bullets money can buy. Very effective; but rough on

your nerves, shoulder — and the life expectancy of your fine, accurate barrel.

**CRACK!** That's a Lyman cast lead-alloy .210 grain bullet propelled at 2,250 fps, only a shade under its jacketed colleague. Ideal for deer and most trophy game on this continent. Kinder to your barrel than any jacketed bullet, thanks to far less frictional resistance.

**BLAM!** Zipping along at 1,950 fps, this Lyman cast bullet is just right for 90 percent of medium and small game. Sure kills with minimum meat spoilage — and, with its tailored powder-load, a cinch for a steady squeeze-off. Great for midrange targets, too.

**POW!** With a load that provides 650 fps, ideal for practice, training, shortrange targets and plinking. Shoot it in your basement with

a couple of magazines for backstop — and without annoying your neighbors.

**ONLY CAST BULLETS GIVE YOU THIS SHOOTING FLEXIBILITY.**

So . . . to turn your gun into a year-round companion instead of a fifty-week wall-flower . . .

. . . to score better, shoot for less — on the range, in the field — or in the basement . . .

*Shoot cast bullets — use Lyman bullet moulds and other bullet-casting equipment — and reload with Lyman reloading tools!*

And remember, a lifetime of cast bullet shooting will leave your barrel in "mint" condition.

Look to  **Lyman** for these  
other outstanding reloading accessories

The Lyman Gun Sight Corp., Middlefield, Conn. Dept. GM 4-9

- Please send me FREE new, 32-page catalog
- Please send me the new Lyman reloading handbook \$2.50 enclosed

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**ALL-AMERICAN RELOADING PRESS**  
Turret action combines speed with precision; no unscrewing and readjusting dies. Completely reloads any cartridge without removing from shell holder.



**#55 POWDER MEASURE**  
Unique three-slide micrometer adjustable cavity handles all powders without cutting or clogging. Measures consistently within a fraction of a grain.





# SWITCH IT! THEN USE IT!



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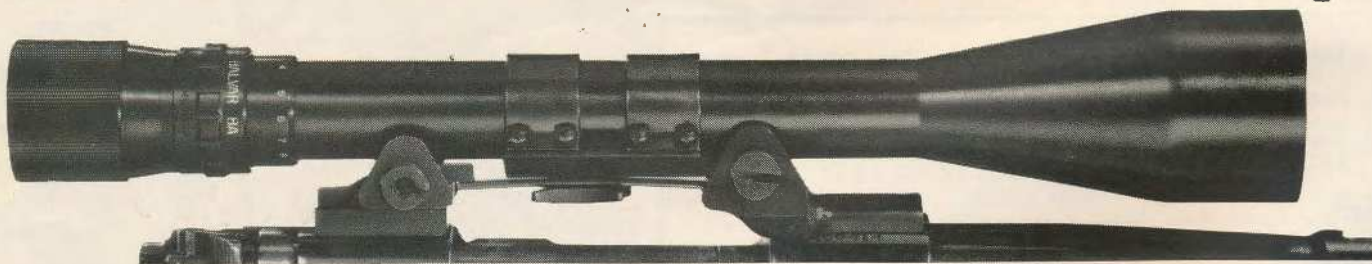
An important advantage of the Bausch & Lomb scope mount is that the unique design allows shooters to shift the scope from rifle to rifle in the field. Once the mount bases have been zeroed on each rifle, the scope may be removed and replaced whenever you wish. There is no change in zero and the switch takes only a few moments with no need for any tool. The same V-block principle always maintains the scope in zero even under toughest recoil or accidental jars.

The scopes themselves take all kinds of punishment: jar them, slam them, scrape them, freeze them, soak them. They perform beautifully after all this torture. Here's the kind of scope you've wanted for years — a wonderful combination of the finest American-made instrument quality and tough, hard design at new low prices! New alloys, new lubricants and new production methods have made it possible to give you scopes that stay in mint condition for a lifetime.

You can't buy better optical or mechanical quality at any price. Your dealer can tell you why the shooting world is so excited about the new B&L scopes. There's a 2½x or 4x at \$49.95, 2½x to 5x at \$79.95, and a 2½x to 8x at \$99.95. For 85-page manual, "Facts About Telescopic Sights", send 25¢ to Bausch & Lomb Incorporated, Rochester, N.Y. 14602.

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# CROSSFIRE

## Dear Mr. Virgines

The copy of GUNS with your story in it (Bill Tilghman: Sixguns To Celluloid, May, 1964), arrived a few days ago.

I am happy to say that it is one of the best articles of moderate length that has ever appeared. It is clear in thought, items well selected, and well told. It has that best quality, that of giving a true presentation. I have had occasion to observe how it is possible to give a true statement yet create a false impression.

My health is not so good now. The doctors tell me to keep active, but I have cut down some.

With kindest regards,

Zoe A. Tilghman  
Oklahoma City, Okla.

*Zoe Tilghman is the widow of Marshal Bill Tilghman. She is well known as a writer and critic of the Old West.—Editor*

## Wants Gun Replicas

As you may know, here in England, we have very harsh laws governing firearms, so for myself and others with the same interests, things are very hard as we are hampered in our field of collecting.

I would like to get in touch with firms out your way who deal in life-like replicas of firearms and have the facilities for exporting here to England.

P. Wilkinson  
17 Guildsway  
Walthamstow  
London, England

## Leverpower Cartridges

The article on the new Leverpower cartridges by John Prescott (GUNS, June, 1964) was very interesting. I'm glad to see that the old reliable lever action rifles can be brought up-to-date with cartridges that offer more modern ballistics. I'd like to get more information on these conversions. Can you give me the address of Wade's Gun Room?

Frank Parkins  
Lakeville, Ore.

*We've had many requests for this address: Wade's Gun Room, 3151 East McDowell Rd., Phoenix, Arizona.—Editor*

## Canadian Laws

The Crossfire column in June GUNS carried a letter from G. Rodney Shewchuk of Alberta, Canada.

Allow me to apologize for Mr. Shewchuk's lack of knowledge on the subject of Canadian gun laws.

We—the responsible shooters and collectors—are well aware of what's happening at

the Provincial and Federal levels pertaining to the proposed amendments to the Criminal Code . . . Ottawa is well aware of use, and is certainly not inane enough to try anything like Mr. Shewchuk so blithely states as fact.

N. C. Raven  
Montreal, Canada

## African Information

Enclosed is my application for the Shooters Club of America. I have been a regular reader of your interesting magazine and am looking forward to receiving it regularly.

As far as hunting in our country and neighboring countries is concerned, I may be in a position to assist your readers with information, as I have hunted all over Africa for the last 12 years. Those of your readers who cannot afford the normally expensive hunting safaris, and who do not know that it can be done in a much cheaper fashion, can write to me and I will be happy to assist them without any obligation on their part. I am no professional hunter; on the contrary, I am Vice Chairman of the amateur hunters association, called "South African Hunters and Game Preservation Association," a society which encourages its members to hunt on a selective basis and preserve game.

Dr. H. P. Van Dyk  
Netherlands Bank Bldg.  
Andries St.  
Pretoria, South Africa

## Luger Correspondent

I am a Luger collector, and would like to have the names and addresses of any persons in the States with whom I could correspond and trade information.

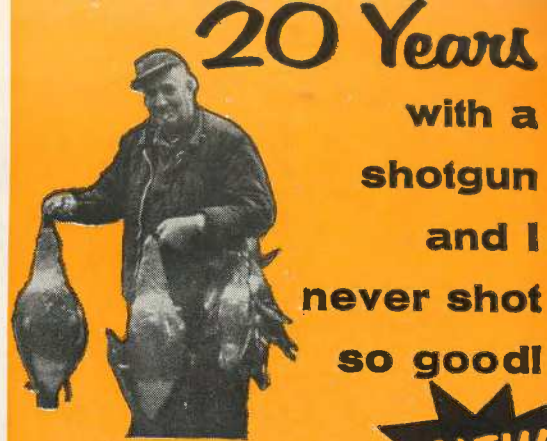
John R. Kurrle  
40 King Street  
Korumburra, Vic.  
Australia

## Six Or Eight Point?

I just read Jim Horton's piece "Reloading Remington Plastic Trap Loads" (GUNS, June, 1964). GUNS Magazine was #1 with me—now I don't know. Horton states: "The crimp is still 8 point type . . . why this can't be changed to 6 point instead of 8 point is beyond me." Instead of Remington going to 6 point, how about Winchester going to an 8 point? That's the only way I can get a decent reloaded Winchester plastic tube. . .

Also, how about more shotshell reloading dope. I don't give two whoops in hell for pistol data and very little more for those wildcat, center-fire, gun bug "way out there"

(Continued on page 33)



# 20 Years

with a  
shotgun  
and I  
never shot  
so good!

... must be that **NEW**

# Poly-Choke

Fitting the Poly's 30" pattern to the range was the answer. I had just the right pattern every time. Used less ammo, too, cause every shot counted. No more trusting to luck for me. I'll get my limit the Poly-Choke way.

## DELUXE VENTILATED

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- Custom installation
- 25% recoil reduction

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Better than factory equipment—light, durable aluminum . . . keeps barrel cool with crisp, clear sighting plane. Complete gun required for all installations. Colors: Midnight Black

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Deluxe Standard . . . . . \$24.95  
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**INSIST ON POLY-CHOKE**



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A compass-like instrument which eliminates confusing calculations. Easily inserted in your gun stock with special bit supplied. You can't lose it and you won't forget it!

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## Wingshooter's Handbook

An encyclopedia for shotgunners. Learn how you can be a better shot.



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# The Sullivan Law Must Go!

EVERYBODY TALKS ABOUT the New York Sullivan Law; for a change, let's do something about it!

Some of those who ride the white chargers of ex-officio leadership in the war against bad gun legislation tell us, "You can't do anything about it. We've tried everything. The Sullivan Law is there to stay."

GUNS Magazine, as spokesman for the Shooters Club of America, is tired of defeatist attitudes. Maybe we can't kill the man-eating New York Sullivan Law and hang it in our trophy room; maybe we don't have the gun (spelled m-o-n-e-y) or the bullets (spelled v-o-t-e-s) to do it. But we do have the courage to try. And in the meantime, maybe we can save a brave old man from its clutches.

The Sullivan Law's victim is a spunky, diminutive, 84-year-old New York candy store proprietor by the name of Frank Felicetti.



New York candy store owner Frank Felicetti is congratulated by his friends after foiling would-be robbers. He shot one, wounded other.

Fred Morgan—NY DAILY NEWS

cetti. On the night of June 7, Felicetti was aroused by breaking glass as he slept in the back room of his shop. Investigating, he discovered the same pair of husky thugs who had robbed and beat him three months earlier. This time, as they were fleeing the store with \$32 and 55 cartons of cigarettes, Felicetti reached for a revolver he had bought 25 years ago and blazed away. One robber fell critically wounded and, stepping over his body, Felicetti chased the other thug around the corner and killed him with a bullet in the heart.

For this courageous act, in defense of his life and property, Frank Felicetti was charged with Sullivan Law violation and faces a maximum of seven years in prison and a \$1,000 fine. And what's more, the New York City district attorney's office intends to make it stick. Felicetti's attorney told us that at

the bail hearing the judge quite readily agreed to reduce the charge to a misdemeanor and from his bench saw fit to commend Felicetti's heroism. At that point the district attorney's men demanded that the charge of violating the weapons law be pressed and the judge said he therefore had no choice but to hold over a very bewildered Frank Felicetti to a midsummer Grand Jury.

But we are more than bewildered. We are downright indignant that such a thing can happen.

What kind of country is it in which an old man is charged with felony because he shot two men who had twice robbed him, once beaten him nearly to death, and who would probably do one or both again if they remained at liberty?

Meanwhile, this magazine has mailed a check to Felicetti's attorney to help defray the cost of Felicetti's defense, because it

begins to look like there will be considerable legal expenses to bear. If this story makes you as angry as it does us, you may also want to contribute. Send your checks to:

Frank Felicetti Fund  
c/o Loscalzo & Miller, Attys.  
125-26 Queens Blvd.  
Kew Gardens, New York

Not enough has been written about this miscarriage of justice but the best of what has, strangely enough, comes from a woman, Annabelle B. Jensis, Managing Editor of the *Greene County News*, Catskill, New York, Henry J. Conland, Publisher. Here are parts of the lady's editorial:

"The newspapers have been filled lately, particularly in New York City, with outcries against the 'apathetic' citizen who stands helplessly by and watches while

others are terrorized by criminals. Perhaps the best explanation of why these people are so apathetic can be found in a story which appeared last week (the Felicetti story) . . .

"It is almost impossible to obtain a gun permit in New York City. Even permits which are perfectly valid in New York State elsewhere are not recognized in New York—a foolish bit of law which virtually gives the city sovereignty over the rest of the state's lawmakers. Yet it is exactly New York City which feels the brunt of its own folly, for it is in that city that the innocent are raped, beaten, stabbed, murdered, strangled, thrown off buildings, molested, tortured, and hounded every day by the lowest scum of humanity.

"Every criminal knows percentages. He knows that in New York City, where a woman can be arrested for having a paring knife in her purse, the percentage favors his crimes. The odds against a victim having any kind of a weapon, even a stone or a nail file, are almost a million to one . . .

"Crime flourishes in an environment where the innocent are deprived of protection . . . No law could be better designed to encourage criminals than the restrictive laws on guns found in New York City . . . In New York City, guns are for criminals only. The rest of the nation can learn a lesson from New York and stop this anti-gun hysteria now." *Time Magazine* adds its comments to this story:

"Self-protection becomes even more complicated in cities that require licenses for firearms. Yet never have New Yorkers, for example, needed protection so badly . . .

"In an attempt to obey the law and also stay alive, many people are turning to weapons that are guaranteed to repel attack yet not inflict lasting injury. Most popular are cylindrical Penguins, which shoot a jet of tear gas and are legal in most states (with the notable exceptions of California, New York, and Illinois). Where tear gas is barred, pocket-size aerosol sprays that discharge a temporarily eye-stinging chemical are usually allowed . . .

"Reassuring as such weaponry may be to a worried public's peace of mind, police officials (still worry lest a) trend toward do-it-yourself protection may lead trigger-happy matrons to mass mayhem. The best advice, claims a top Baltimore cop, is still "Learn to run!" The question is, can nervous citizens run fast enough—or far enough?"

With regrets to those police officials who fear "trigger-happy matrons" bent on "mass mayhem," we suggest that a few mayhem-minded matrons with proper equipment might do much to correct certain conditions in which certain police are helpless. We are not for anarchy, or for vigilantes, and we do have a fair understanding of police problems; but have not heard of a single case where a rapist, a mugger, or a murderer was stopped by "passive resistance." The lawmen of the Old West may have leaned too heavily on the "self defense" verdict, but self defense is still a fundamental law of nature, if not of this nation. We resent seeing it abolished.



(Continued from page 10)

mal range hunting. They are not. I've bagged a lot of varmints and game with handguns of all calibers. Loads varied from bare 25 yard .32 stuff to the hottest .44 Magnum hell-for-leather loads safe to fire.

Years of hunting has proved beyond a shadow of doubt that more animals, except deer and larger game, can be bagged with mild but very accurate .38 Special loads. Accuracy is more important than in rifles. The .38 bullet weight and caliber is very large compared to small bore rifles. Nearly any head or body hit with a .38 will bag small game, regardless of velocity. Efficiency is due to bullet caliber, weight and penetration, rather than velocity.

Best target load with Speer's H.B. Wadcutter is 2.7 or 2.5 gr. Bullseye, depending on your gun. The former is OK for most hunting. My load is 3.0 gr., which is 0.3 over maximum in Speer's excellent new No. 6 Manual. It isn't hot or erratic. The accurate range is about 20 per cent more than factory Mid-Range ammo, say near 90 yards. Few shooters can consistently hit small targets beyond this range with any load, despite claims to the contrary.

Instrumental velocity in my S & W M52 Auto averages 857 fps. We assembled "slam bang" loads in a Star machine with assorted, untrimmed cases, and CCI 500 primers. Velocity varied from 842 to 875 fps, a "match grade" spread of only 33 fps, for 10 rounds. Then once fired R-P cases of the same lot were trimmed to 1.142. They were sized in RCBS dies in a RCBS Jr. press. CCI 500 primers were correctly seated (by feel) to contact pocket bottoms fully, plus a little extra pressure to increase sensitivity. Weighed charges gave a velocity spread of only 12 fps, about as uniform as loads can be assembled! Reloading in the RCBS tool with charges thrown from a SAECO measure with the pistol drum gave a VS of only 19 fps. The charges, checked for weight, varied less than 0.1 grain.

A low VS tightens groups, especially reducing shots printing high or low. Next to a fairly uniform charge, the most important factors are the primers, and primer seating. The major fault in reloads is failure to seat primers to bottom in the pockets fully. The Star machine is adjustable to seat to any depth below the case head face. Ours is set for .004" low with CCI's.

CCI's are not critical in seating depth, as long as they fully bottom in pockets, which accounts for excellent ignition with "slam bang" loads. All primers must be seated below the case head face, but seating to any given depth low does not insure uniformity. That's because primers and pockets vary up to .015". They are best seated by feel until you feel them contact the pocket bottom, then add a little extra pressure. Do it right and you'll assemble better ammo. The major cause of misfires or hangfires is inadequate primer seating.

For complete new priming dope write Cascade Cartridge, Inc., Lewiston, Idaho, for Technical Bulletin 102. This is vital information.

Wadcutters are more potent than most people think. They are good defense loads for women sensitive to noise or recoil. Heavy semi-wadcutters are good for longer range or larger game. Speer's Long-jacket 146 gr.

H.P. is one of the best. For barrels longer than 2" use 10.5 gr. 2400 or 9.5 gr. AL-8. For 2" snubs use 5.5 gr. Unique. We use CCI 550 Magnum primers for better ignition. These loads work well with lead alloy bullets of nearly the same weight. So does 3.0 gr. Bullseye for moderate loads. All .38 Special revolvers take these loads.

S & W light "K" frame .38 Specials, and their lighter frame 5 shot snubs, are not recommended for factory high speed loads. All Colt .38 Specials, including light frame snubs, are listed for factory high speed ammo. Of course all Colt, Ruger, and S & W .357 Magnums take all .38 Special loads, and have a large margin of safety with hot .357 Magnums. I prefer these for all-around use.

A .357 load is seldom needed, except for deer or larger game. S & W lists the accurate range of a .38 Mid-Range Match load at 100 yards, and a service load at 300 yards. They list the accurate range of a .38 High Speed at 500 yards and the .357 at 600 yards. I won't dispute their figures. They were probably intended for man-size targets rather than varmints, and indicate the accurate range of the cartridges rather than the shooter. I believe good shooters have about twice as much "accurate range" with a .30-30 rifle as they do with any revolver. It would be silly to attempt to use a .30-30 for game at 600 yards.

The maximum effective range of any handgun, including a .44 Magnum, is limited by your ability to place hits in a vital spot. Call it a 10" circle for deer, less for small game and varmints. A .38 Special has much longer range than a good shooter needs or can use.

The .357 Magnum was justly praised by all gun authorities. It's very accurate and highly efficient for any normal heavy-duty use. Uninformed newspaper scribes and comic strip characters implied it has some miraculous power, as they do bigger Magnums today. Years before the .41 and .44 Magnums came out, it cleanly stopped big game and tough men. It still does! Good handgunners miss more game with the bigger Magnums because they are harder to shoot and handle with accuracy and speed.

Try firing 200 full charge .41 or .44 Magnum loads on paper targets one afternoon. Watch your scores go down, down, down! Allow your shooting hand a few days to recover fully, and try 200 good .38 Special loads. Watch your scores go up, up, up!

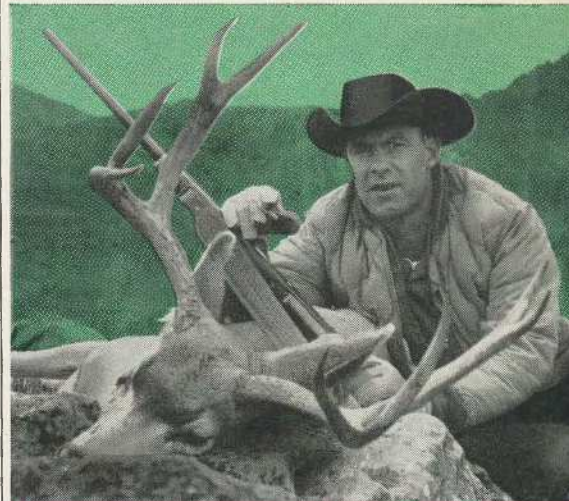
Most seasoned handgunners added a .44 Magnum to their battery. Those who practice lots can shoot them well. Most chaps reserve them for extra heavy-duty work on deer or larger game after much pre-hunt practice. On this basis the .44 Magnum is excellent.

Unfortunately, the big Magnums have become a symbol of rank novices, who use them as "bragging guns." Many can't hit their hat at 30 steps! Some are not hand-loaders. Few can afford the 100 or 200 boxes of ammo necessary to master their gun. A novice won't make a good .44 Magnum shooter with less than 200 boxes of ammo, that retails for \$1,620 or more. You can reload that much for less than \$200 with scrap metals, or under \$275 with commercial alloy. You don't need the higher priced jacketed bullets for practice.

(Continued on page 66)

HUNT BIG GAME IN

# COLORADO



## GREATEST DEER-HUNTING STATE IN THE NATION!

That's right! Colorado is the leader in mule deer kill. The state's record-shattering 1963 season saw 158,521 hunters bring in 147,848 deer; and 51,054 marksmen took 12,120 elk!

And another record year is in the making. Right now over half a million deer and elk are fattening in Colorado's lush, green mountain valleys and will be awaiting your gun sights when the season opens.

### HUNT BIG GAME WHERE THE GAME IS BIG... AND PLENTIFUL!

Official national records list more record-class mule deer taken in Colorado than any other state. Colorado also ranks among the top elk hunting areas in North America.

Broad, safe highways take you to many of Colorado's prime hunting areas, where you can take two deer for only \$47.50 in licenses. You'll also find trophy elk and bear, even mountain lion, in many of these same areas.

### MAKE YOUR PLANS NOW... GET FREE HELP

Start planning now to get your share of Colorado's big game harvest. Send the coupon below for complete details on seasons, regulations, guides, accommodations... everything you'll want to know.

Remember, too, that Colorado in autumn is a perfect time for a family vacation. Scenery is at its peak. Trout season is open year 'round.

### CLIP AND MAIL COUPON TODAY

#### SPORTSMEN'S HOSPITALITY COMMITTEE

106 State Capitol Building, Denver, Colorado 80203

Please send me your FREE Big Game Hunting Packet of 6 folders, including regulations, seasons, highway map, guide and outfitter list, autumn events schedule, accommodations information.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_







Ned Locke and his son Bob cautiously approach a downed hog as Bud Hildebrand backs them up.

# HOOSIER HOG HUNT



Ned Locke's collection of some 50 guns provide him hours of enjoyment

**I**T WAS STILL COOL in the woods, and the sun made feeble attempts to break through the heavy summer foliage. The four of us were rooted to the ground, straining our ears and eyes. We had hunted for the better part of an hour, saw plenty of signs, but never once even got a glimpse of our quarry—razorback hogs. As we crested a slight rise, we thought we heard the sounds of some critter in the woods ahead of us. As we stood straining to sort out the shadows and the fallen tree trunks, there was the sound of squirrels moving.

I looked to my left, and Ned Locke, a star of WGN's "Bozo's Circus" TV show—the best-known mid-western children's show—had his M 1 carbine at the ready, finger on the safety. A bit ahead of him and on his left was Bud Hildebrand, who owns a sporting goods store in Broadview, Illinois. Bud has been one of Ned's frequent hunting companions. On a slight rise and to my right was Ned's younger son, Bob. He was carrying an Ithaca Model 37 with Remington slug loads, and he was looking downhill in my direction. Suddenly Ned, Bud, and I spotted the hog. A dark shape moving slowly through the underbrush, and at 40 yards, the animal was barely discernible. The woods were too densely overgrown to take a shot, and while we waited, another hog joined the first one. Both turned, then disappeared over the hill. Now that we had seen our quarry, we could decide just how we were going to try and collect our pork chops on the hoof.

The hunt, postponed twice, had had a peculiar beginning. In the April issue of GUNS Magazine, we had a short article on a Randschluss gun in the Gun of the Month

By R. A. STEINDLER





Ned Locke's pig was the biggest of those bagged on this hunt, weighing about 200 lbs. on the hoof.



Ned Locke, Bob Steindler, and Bud Hildebrand size up Bob's hog, downed with two shots from a Ruger carbine.



This Dreyse double from Ned Locke's collection is identical to the one featured in our April issue, though it does not have the gold inlays. This was the gun that brought Ned Locke into our offices.

feature. Although we had received several letters about Dreyse, little information was forthcoming about the ignition system or the Randschluss marking. One day the phone rang, and a man's voice announced that he had just acquired a gun like the Dreyse we had shown, and would we like to see the gun? Would we—heck yes! The man who showed up was Ned Locke and since I don't have TV, I failed to recognize him or the name. My lack of education was quickly set right by several members of the staff. Ned had brought along not only the Randschluss gun, but several others that he had recently acquired. Though not a collector in a big way, he had been collecting for some years, and I was especially interested in a Rook gun, and several Remington rolling block handguns.

One of the guns in Ned's collection is of particular interest. A double barrel, break-open, handgun with double triggers, and lanyard swivel, was especially interesting. This gun—and Ned has shown it to a number of very knowledgeable collectors—has rifled tubes, but there are no marks on the grips, the barrel,



The hogs on this Indiana game preserve seem to be a cross between the Russian boar and domestic pigs, and though their tusks are not large, they do have them.





## HOG HUNT



1. This double barrel handgun in Ned's collection has no marks of any kind. 2. With action opened, you can see the rifled tubes. 3. Ned's collection also includes a Webley, Remington rolling block, a pepperbox, and other handguns.



or the back strap. Over the years of being a professional actor and flier—he operated two airports for some years and was president of the Iowa Flight Operators Association—Ned learned to enjoy browsing through shops, and antique shops that have guns that are of special interest to him. Before his heart attack four years ago, Ned was a very active hunter, and it was a bad year when he did not collect at least one or two trophies, usually during pack trips in the Rockies.

His heart attack, though not limiting his everyday activities, did put a crimp into his big game hunting, and Ned now concentrates more and more on gun collecting. If hunting conditions are not likely to tax him too much physically, he still likes to take off, and he tries to arrange his vacation so that his TV show does not suffer. Shortly after my visit to his home, he called me. Would I like to go pig hunting? He had just heard about a game preserve in Indiana, was anxious to check it out.

A week or so later, Ned had all of the information we needed. These were not wild boars or Russian boars, but they were wild razorback hogs that were brought up from the Florida Everglades. The Blocher Game Preserve, near the little town of Claypool, Indiana, stocked the hogs, and hunters had the choice of going out and looking for the game, or the preserve would furnish hounds that would trail the hogs. A part of the 160 acre area was set aside for archery, the other part was reserved for hunting with guns; there were no restrictions as to what gun you could use, as long as the gun itself was legal.

Ned made arrangements for us to head down to Claypool, and our other hunting partner was to be Jim Thomas, who bosses the weekly WGN-TV Outdoors show. In the last minute, weather conditions became so poor that we had to postpone our trip, and the following week

Ned could not make it. When we finally managed to get together again, Jim Thomas was in Texas, but Bud Hildebrand and Ned's son Bob would be our hunting partners.

The razorbacks seem to be a cross between the wild or Russian boar and the domestic pig, and from all accounts, they were as tame as kittens or as wild as any game you want to mention. These hogs do have tusks, and when charging, they lower their heads and hook upwards with the tusks. These choppers cannot be seen when the pig has its mouth closed, but they are self-sharpening; as a matter of fact, I had a chance to watch one of the hogs for a while, and the chomping motion of the pig's jaws were evidently used to keep his dental work in good shape.

Hunters who had been to the game preserve came back with varying tales. The pigs were penned up, they were running wild; they are easy to kill, they are tougher than a bull elk; they charged, they did not charge; they weighed less than 50 pounds, they weighed over 150 pounds; it was no real sport hunting them, razorback hunting—though not as demanding as goat hunting—was not a Sunday morning stroll in the woods.

Ned, Bud, and I talked with (*Continued on page 40*)



# The Anschutz Record Match Pistol

By CHARLES LOGIE

**THIS HANDSOME TARGET PISTOL HAS PROVED  
ITSELF IN NEARLY THIRTY YEARS OF COMPETITION**

**A**T THE OLYMPIC GAMES IN Berlin in 1936, the great Swedish shooter, Torsten Ullman, won the free pistol match with a new world's record score of 559 out of 600. This record was set with the then brand-new Anschutz Record Match Pistol and stood for over 20 years.

Today, almost 30 years later, this gun is probably still the finest free pistol ever made, and the few that are in existence are real collector's pieces. The only current pistol in the field, the Hämmerli, is based on the Anschutz.

Udo Anschutz made his famous pistols in Zella Mellis, Thuringia, which is now part of the Russian Zone of Germany. He started with famous Ernst Friedrich Buchel, who made the world renowned Tell and Luna free pistols, and after taking over this firm, he continued the Luna with a newly designed stock and extension rear sight. Anschutz then designed the Record Match Model 200 and later the Model 210. The last and final design was the Model 210-A, which had a dural receiver reducing the

weight from a hefty 2 lbs. 14 oz. to a mere 2 lbs. 3 oz.

The gun itself has an eleven inch barrel and is 14 $\frac{3}{4}$ " overall in length. The action is a miniature Martini, with a bottom actuating lever for opening and cocking the action. The double set trigger mechanism is cocked separately by a side lever on the left side.

Opening the action draws the fired case far enough out to drop clear if the gun is rolled over in the hand and a new cartridge is then slid down a groove in the top of the action block into the chamber. Closing the action cams the bullet into the rifling about 1/16" which probably helps to account for the fantastic accuracy of this gun.

These guns were not released for sale unless they placed all shots in a 1" circle at 50 meters, and I have seen 3/8" groups at this range fired from a machine rest.

The trigger is of the conventional shape, except for a heavy threaded area near the end. This threaded area holds a small button or screw which is *(Continued on page 63)*



The excellent workmanship and classic decoration of the author's Anschutz Record Match pistol are evident in these photos. Note button on trigger for a feather-light finger control.



**HOW TO DETERMINE**

# Shotgun Efficiency

By **BERT POPOWSKI**



On pheasant or varmint, more shot in the bird means more game in the bag.

**CHOOSING THE RIGHT  
SHOT SIZE CAN  
SPELL THE DIFFERENCE  
BETWEEN SUCCESS  
AND FAILURE**

**A**LMOST EVERY SHOTGUNNER, when hunting with a partner, has seen the sudden momentary change of direction of the target as a load of shot strikes it fairly. In some cases, especially when the target is close, it is quite sharply "bumped" out of the flight line it was pursuing before being struck by the pattern.

On broadside hits, the bird is frequently driven out of line one to three feet, depending on its size and weight,

and on the impact force of that portion of the load which strikes it. On incoming shots, particularly those at low level, the bird may appear to have hit an invisible wall. Its forward momentum is sharply slowed, or it may be "bounced" backward by shot impact. On nearly straightaway shots, though the wings may stop moving, the bird continues to "fly" forward due to the boost it gets from the shot charge catching up with it.



Ducks and geese, which have relatively slight maneuverability from a fixed flight line, are occasionally turned clear over on their backs when frontally hit. I have seen pheasants, shot while climbing up through high brush or low trees, do that same back-flip before plunging earthward.

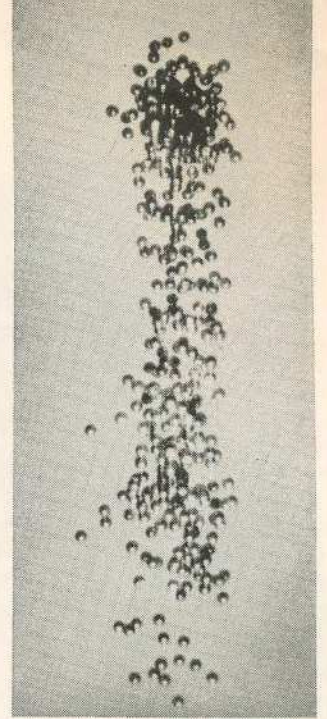
Such observations should teach beginning shotgunners that shotshell patterns reveal considerable evidence of their killing power in direct proportion to the amount of that power which lands on the target. If birds are hit with too-thin patterns, shotguns aren't achieving their intended potential and some changes—in load, range of fire, or delivery of pattern on target—should be considered.

One of the shotgun targets I've studied during much of my life is the common crow. It is small, thus requires considerable pattern density, it is highly agile, thus requires excellent gun

scrawny carcass that doesn't offer very much of a target.

The small bodies of crows automatically call for dense shot patterns, which, in turn, require a choice of small shot sizes to make that density possible. Unless, of course, you can call them in so close that you can guarantee nothing but short shots. That on the face of it, is silly reasoning. Even if you did get nothing but short shots, the limited spread of the shot patterns would require some remarkable gun pointing. And any hunter who is starting out on crows just isn't that fine a shot. If you are, you're wasting your time reading this.

When I first started calling and shotgunning crows, I used No. 6 shot, simply because it was then, as now, a fine all-around size for game. But, as the charm of crow hunting seduced me, and I began to buy shotshells by the case for the sole purpose of shooting



Shot heads up toward a bird. How many will hit?

### COMPARISON OF SHOT SIZES AND WEIGHT

No.	12	11	10	9	8	7½	7	6	5	4	2	Air Rifle	BB	No. 4 Buck	No. 3 Buck	No. 1 Buck	No. 0 Buck	No. 00	
Diameter Inches	.05	.06	.07	.08	.09	.095	.10	.11	.12	.13	.15								
Milli-meters	1.27	1.52	1.78	2.03	2.28	2.41	2.54	2.79	3.02	3.30	3.78	.175	.18	.24	.25	.30	.32	.33	
APPROXIMATE NUMBER OF PELLETS TO THE OUNCE												NUMBER TO THE OUNCE		APPROXIMATE NUMBER TO THE POUND					
	2385	1380	870	585	410	350	300	225	170	135	90	55	50	340	300	175	145	130	

A glance at this chart reveals many interesting facts. For instance, that a one ounce shotshell load carries nearly three times as many 9's as 6's.

handling for consistent hits; and it is fragile, allowing extensions of range beyond the point where tougher-fibered birds, such as pheasants or ducks, seem to shrug off hits by too-thin patterns.

Any time a hunter tells me that crows are tough and hard to kill, I know that he is making one of two basic mistakes: he is either using shot that is too big, or shooting at extravagant ranges, or both. He may also be a sloppy shot and, as one of my hunting cronies puts it, is "shooting them where they ain't!"

The average crow barely reaches a pound in weight. He looks much bigger than that, but most of that is gained from the sharp visual impact of his black plumage, including the wide expanse of his wings and tail. Strip him of his hide, and you have a

crows, I first switched to No. 7½'s, then to 8's, and, finally, I now use only 9's.

To a degree, that change was due to my becoming a more efficient marksman on crows; or, perhaps, the change accounted for that improved accuracy. The two are so closely inter-related that their significance is best explained in the following table:

	<i>Size of shot</i>				
	6	7½	8	9	10
	<i>- Pellets per ounce</i>				
	225	350	410	585	870

To the uninitiated, it may seem incredible that the increase in the number of pellets per ounce is so rapid; from a mere 225 No. 6's to almost three times that many 9's, and nearly four times that many No. 10's.

The inference of the above table is

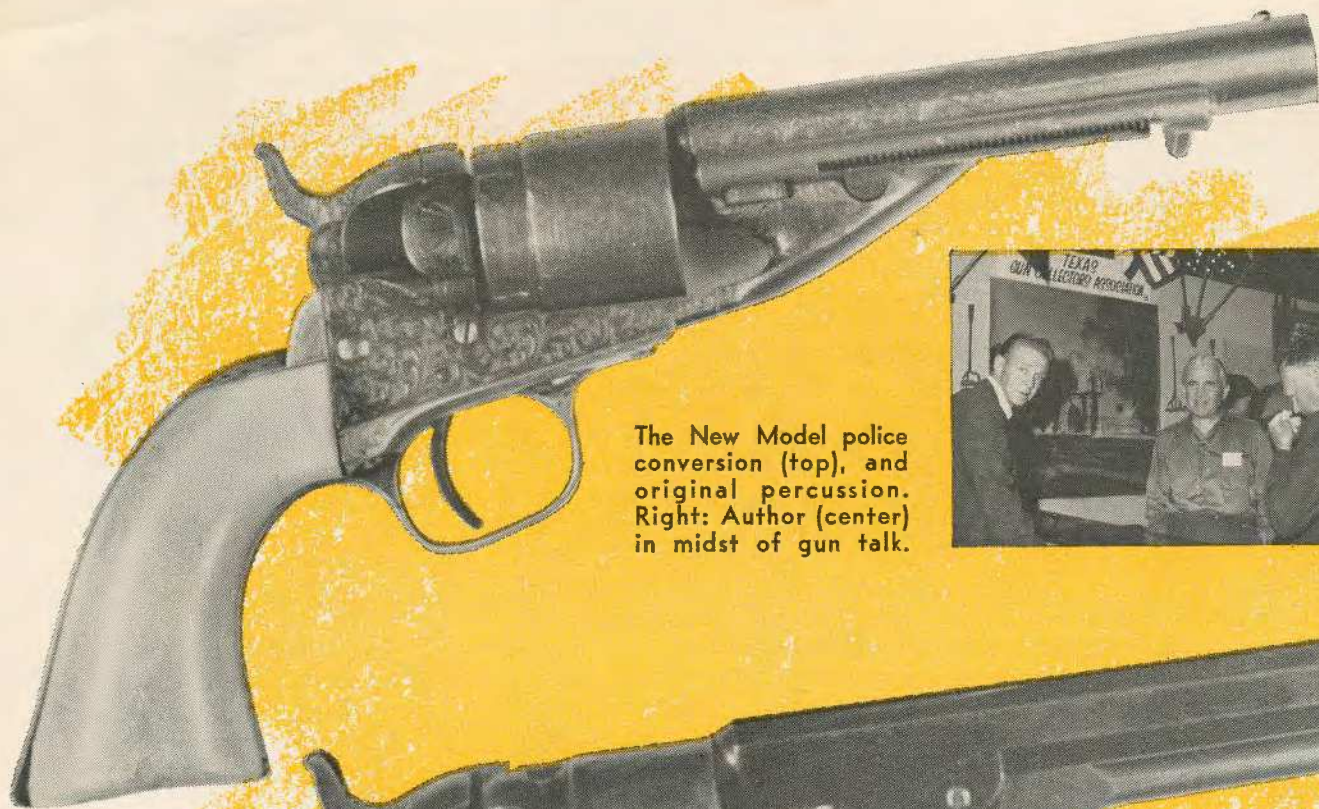
plain. Assuming you're shooting one-ounce loads (if yours are heavier, get pencil and scratch-pad and figure them up) it's obvious that if you sling out 585 pellets of No. 9's you'll hit your crow with many more of them than if you were letting go with a mere 225 No. 6 pellets. Number 10's would increase your advantage by more pellets, over No. 9's, than there are in the entire one-ounce load of No. 6's!

Along these lines, here's another little tabulation I've whomped up for your edification on the efficiency of the shot sizes listed:

	<i>Size of shot</i>				
	6	7½	8	9	10
	<i>Comparison percentage</i>				
	25.86	40.23	47.12	67.23	100.00

*(Continued on page 45)*





The New Model police conversion (top), and original percussion. Right: Author (center) in midst of gun talk.



NOT JUST A CONVERSION, BUT A  
NEW MODEL WITH THE RARE SERIAL #1 IS

# A Colt Discovery!

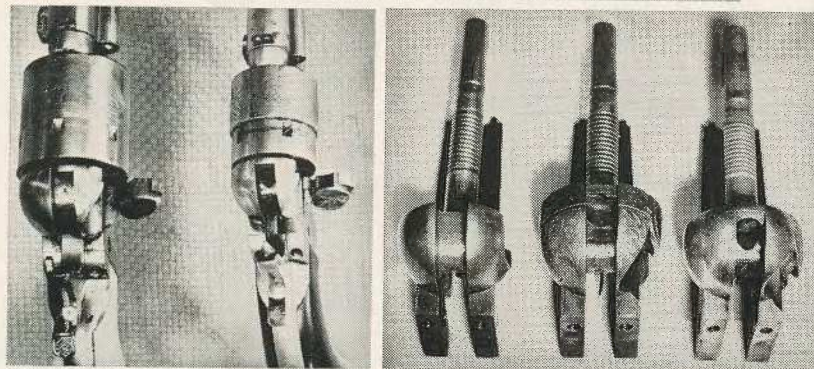
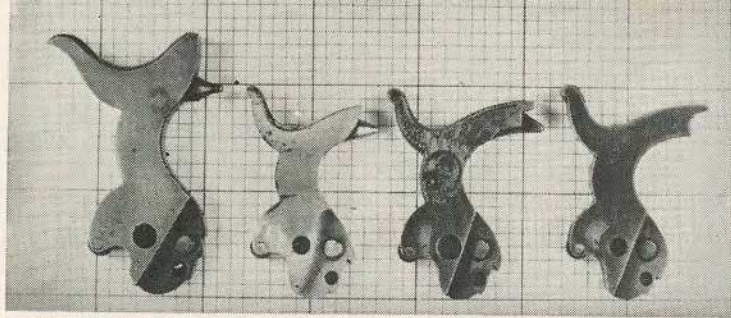
By HARRY C. KNODE

**F**OR A COLLECTOR TO find and then buy a Serial #1 arm, especially in the Colt line, is a sure sign that he has been living right. But when that #1 is on a heretofore unknown model, the collector is really "living high on the hog," and this has been my good fortune.

It has been rather conclusively proved that the British had difficulties in obtaining good, reliable rim-fire ammunition. Colt Second and Third Model Derringers that have come back from England, with British proof marks, were either converted or had center-fire hammers. Cartridge specimens of .41 caliber Short ammunition made in center-fire have been found, and I have seen an Eley cartridge box for this ammunition. The box was marked "50 ELEY'S

410/Waterproof/Central-Fire Cartridges/Made Expressly For Colt's Derringer and other Pistols/ELEY Bros. Limited Manufacturers London," further substantiating the rim-fire problem the British encountered. Also known to me is a Colt 1871-72 Open-Top Model that would normally be chambered for the .44 Henry Flat rim-fire cartridge. It is, however, chambered for a .44 or .45 center-fire cartridge, has British proof, and the gun lacks a serial number. I believe that this gun was made in the U.S. especially for a sales promotion in England. This revolver has the normal Single Action hammer, the recoil shield was not cut through for the flat firing pin; instead, the frame was taper bored to take the single action firing pin similar to

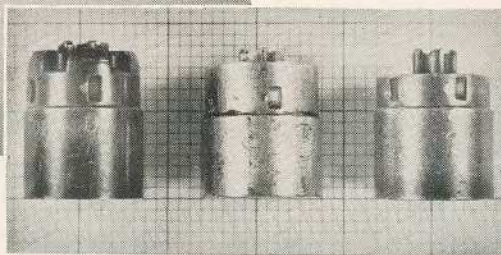




Hammers, left to right: 1873 SA; 1871-72 .38 Pocket Model; NM Police conversion and same in percussion. Lower left: Breech of Model 1871-72 in .44 RF and .38 CF. Right: Frames of New Model Police percussion and conversion; 1871-72 .38 CF.



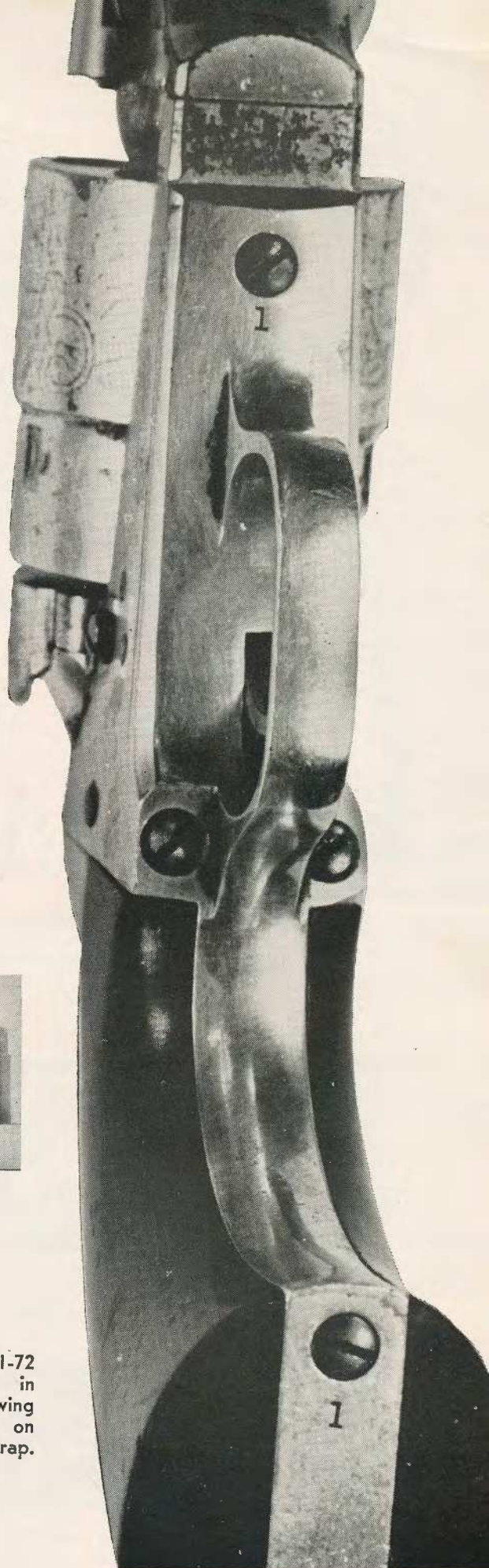
Model 1871-72 in .44 RF (top) and .38 CF. Cylinders (left to right): NM Police percussion; 1871-72 .38 CF; NM Police pistol conversion.



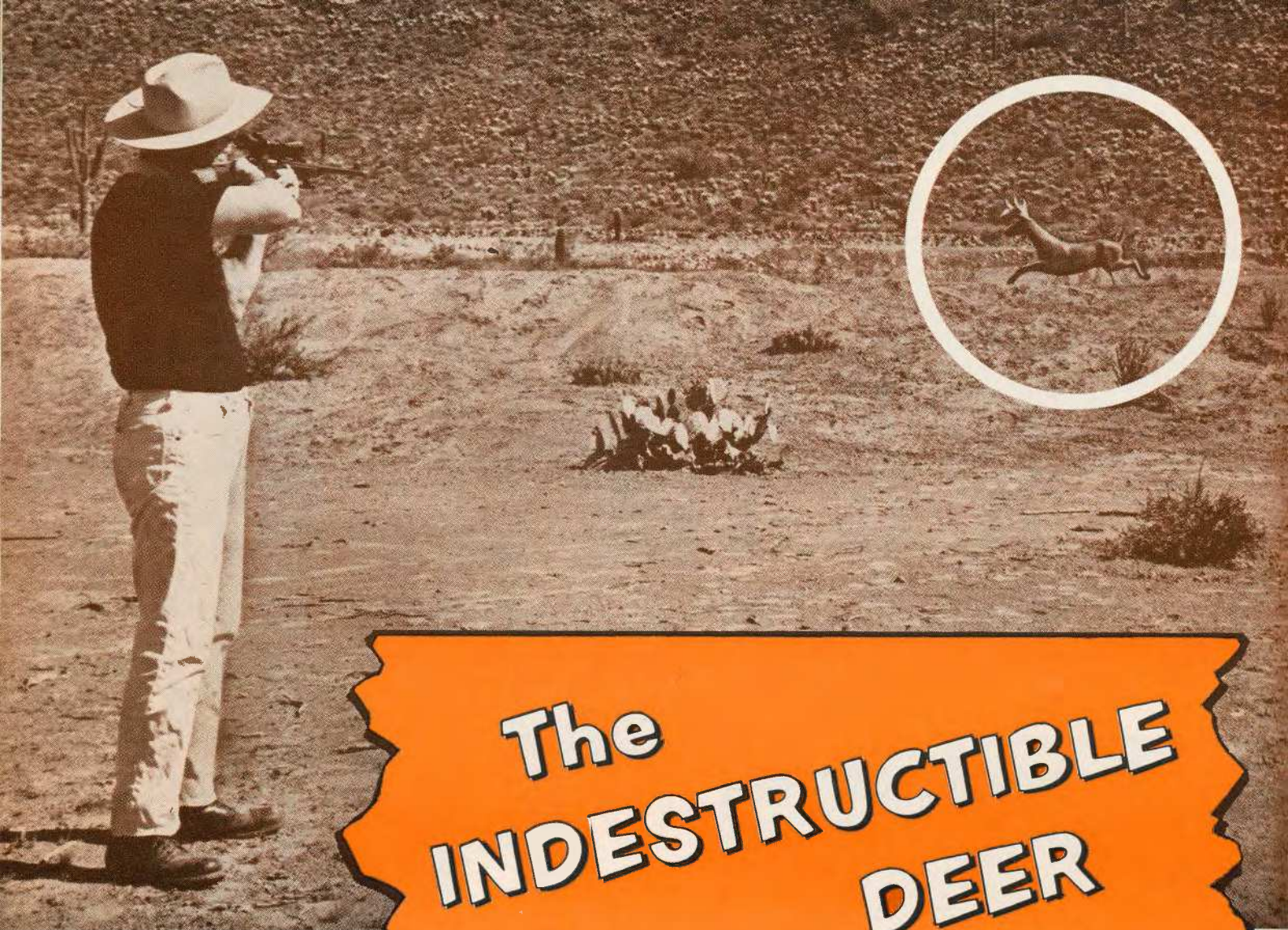
the revolver I am presenting here, for the first time.

In June of 1955 a California dealer shipped me a Colt New Model Police Pistol which he claimed was a "conversion." This Model is also called the 1853 Pocket Model of Navy Caliber, and it has long been my contention that this gun was brought out in the 1860's rather than 1853. Many of these guns were either immediately converted or were issued as cartridge guns. When the gun arrived, the first examination showed the serial #1, indicating a new model. This number is on the barrel, the back-strap, the trigger-guard, the wedge, cylinder arbor, and on the hammer. The number on the cylinder seems to be a strike-over of the #1, but there is no question (Continued on page 50)

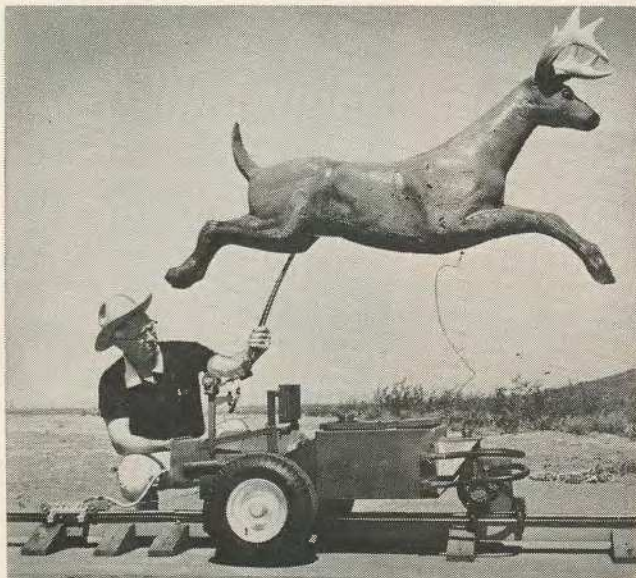
View of 1871-72 Pocket Model in .38 CF, showing serial No. 1 on guard and strap.







# The INDESTRUCTIBLE DEER



Ben Avery, prime mover in establishing the Black Canyon Range, studies one of the Realistic deer.

## HITTING THIS FLEET AND BOUNCING DEER WILL TEST YOUR RIFLE SKILL

By PAT BAXTER

ONCE, OR POSSIBLY TWICE a year, the hunter will get a shot at a deer—if he's lucky, that is. When the big opportunity comes, the deer may be standing and a slow deliberate aim is possible. If our hunter has realized that sighting-in is a prerequisite to good hunting, he will undoubtedly take this standing deer with ease.

But chances are that the deer will be running and a *quick* deliberate aim is then necessary. In an instant the hunter must recognize the buck, take a deep breath and hold it, pick out a vulnerable vital area, make the required lead if any, and squeeze off his shot. With as little live deer practice as most of us have in a lifetime of deer hunting, every running deer shot is a new challenge. In all probability every shot we have taken at deer has presented a fresh set



of circumstances. Those of us who have done a lot of deer hunting know we need practice—but think of the neophyte hunter who has possibly never seen a deer in the wild.

Shooting paper targets isn't the complete answer. Anyway, a hole punched in a paper target doesn't interest the average hunter. The hunter may prove his ability to cluster his shots in the bullseye, but become a nervous wreck when suddenly confronted with a big buck deer. He may know what a deer looks like in a picture, but he still doesn't have a good mental image of what to look for in a natural outdoor setting.

The experienced hunter may be lucky enough to pull himself together and make a good shot at a running deer. I wouldn't bet on any hunter getting off a good shot at the first running deer he sees. Not unless I knew he had been practicing on the life-sized three dimensional Realistic Running Deer Target.

I saw my first Realistic Deer in action, circling behind an earthen embankment, at the big Black Canyon Range north of Phoenix, Arizona. This novel target is not only the greatest thing ever developed for practice shooting at big game, it's a lot of exciting shootin' fun. I believe it will do wonders in educating the hunter's eye to spot a deer immediately when he sees it. At the same time he will be quicker to recognize what is *not* a deer. You might say that this latter ability is by far the most important—and I believe you'd be right.

The Realistic Deer Target is a normal sized buck in a natural color. It is made of a spongy plastic material which will withstand a terrific amount of abuse from high powered bullets. Here is a buck you can shoot perhaps 5,000 or more times in a vital area and he keeps running. But you'll know when you make a killing shot. Put a bullet—anything from a .22 rim-fire up through the big magnums—into the kill area and he comes to an abrupt stop.

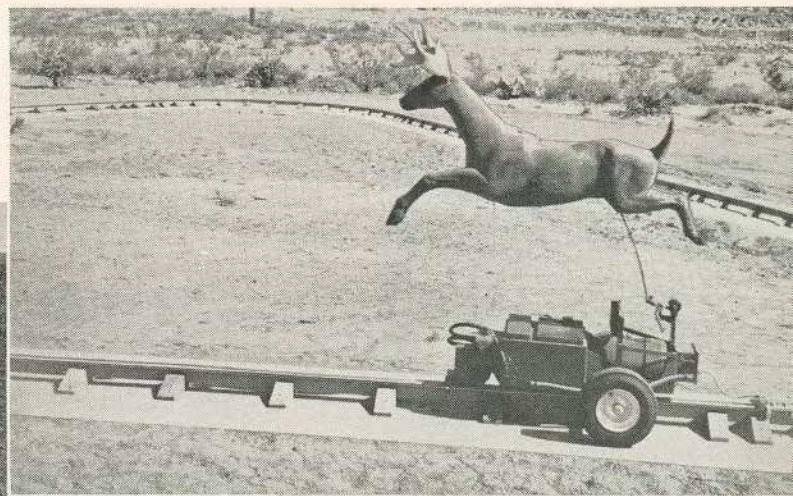
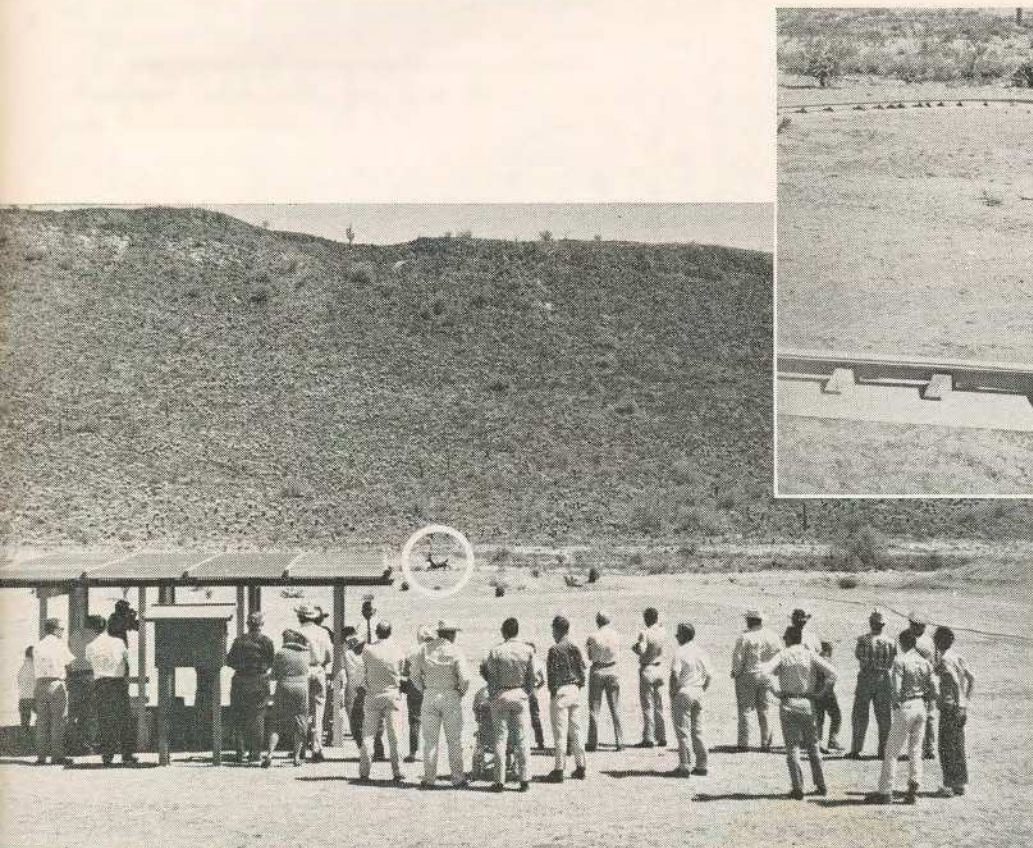
After a five second interval he rears up and is automatically off again. Don't make any sloppy shots on this deer and expect to stop him. Shoot him in the gut, rump, or legs and you won't get this buck. This too, is pretty realistic because it frequently works this way with real life specimens. Sloppy shots don't anchor them.

The soft deer form, having a split on the underside, is placed over a metal plate that fits into the chest cavity. This plate forms the kill area. The plate is secured to the end of a curved piece of heavy spring steel like you see holding the seat on a piece of farm machinery. The spring is fastened to a carriage that is operated by a hydraulic system and that gets its power from a two horsepower single phase motor. In places where there is no electric power, a four horsepower four cycle gas engine is used.

The front end of the carriage rides on a mono-rail T track which determines the deer's path and supplies the electrical life energy to keep him on the run.

An electronic sensing device which responds to the hit of a bullet on the kill area plate is what interrupts the circuit and stops the deer. A timing device detains the deer after the hit and then puts the juice to it again after the five second breather. The track can be installed on any desired course. The buck can be directed through openings in the pines or he can run his entire course in the open. Since the track must be continuous, the running deer presents shots running from left to right, right to left, rear view, head-on view, and all possible angles.

At present there are about 20 such installations. Two of these are in Montreal, Canada. The last I heard there were eight more being negotiated including one in Pretoria, South Africa. Art Tickell, a (Continued on page 61)



Triangular track in Phoenix gives the rifleman practice shots from every angle as the deer target makes its rounds.

Phoenix desert provides the ideal set up for high power range. It looks easy enough to everyone but the shooter.





John Meyers with his Strip deer. Heavily palmated and thick beamed rack spread to a full 39 inches.

# Monster Trophies FROM THE Arizona Strip

By BOB HOUSHOLDER

WHEN THE TALK GETS AROUND to mule deer that weigh as much as a cow elk, old time trophy hunters may think that we are talking about the famous Kaibab Forest. This area is mentioned more times in the record book than any other in North America for producing trophy antlers. However, this article is about another area, one which produces some of the largest muleys that I've ever seen.

Back in the late 40's and early 50's, the Kaibab herd was too large for the area and the deer were becoming smaller. Though I continued to hunt there each year, I kept hearing rumors about monster bucks from a remote and uncharted part of Arizona that is just west of the Kaibab plateau.

It was not until 1954 that I was able to take a scouting trip into this area. A 2500 foot deep gorge runs along the west side of the Kaibab (the famous Grand Canyon on the south), called Kanab Creek. There, in a brilliant sunset, I looked farther west into the vast untapped trophy buck country, which up to that time had not been named. Later, it was called the Arizona Strip.

This area stretches for 100 miles west from the Kaibab, north of the Colorado River; the State of Utah borders it on the north. The "smaller" canyons that drop into the Grand Canyon are actually immense, nearly vertical, and some are more than 2,000 feet deep. Some areas of the Strip are fairly easy to hunt, but in these places hunters find the cars and trucks of the infamous road hunter. In the areas where the trophy hunter seeks his buck, he will see country as rough as any sheep range in this country. It is wild, for the most part uninhabited, practically waterless, does not have a high density of deer and is the toughest deer hunting a man can expect in this hemisphere.

Some of the bucks brought out of this country defy description, they take 26 inch steps, leave tracks  $3\frac{3}{4}$  inches long and weigh 400 pounds on the hoof. The first time I saw one of those tracks, I couldn't believe my eyes. This was by far the largest deer track I had ever seen in 25 years of hunting and guiding in the southwest. I dug out a .300 H&H cartridge and placed it in the track; it fit with plenty to spare; the track was a bit over  $3\frac{1}{2}$ " long. Deer pellets the size of large marbles were commonplace. They were the size of elk droppings, but there are no elk anywhere near where the tracks and droppings were seen.

Over the years, I have used this rule of thumb with deer: assume one inch of track is equal to 100 pounds of deer on the hoof. Obviously, this is general; however, it is time tested and surprisingly accurate. The  $3\frac{1}{2}$ " track was left by a buck weighing about 350 pounds.

As editor of "Arizona Wildlife" magazine, I maintain the records of big game kills in Arizona. The record dressed (Continued on page 43)

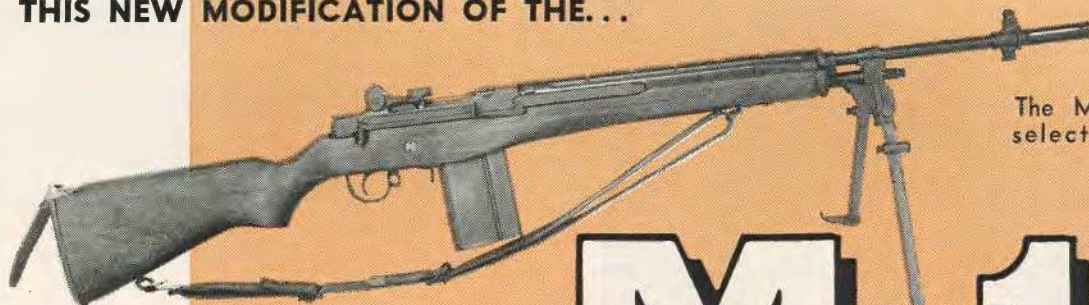


Left: Joe Walters and his 400 lb. Strip Country buck that dressed out to 285 lbs. Below: A trophy buck with a rack 40 inches wide.





REPLACING THE BROWNING AUTOMATIC RIFLE IS  
THIS NEW MODIFICATION OF THE...



The M-14(M) with a selector and bipod.

# M-14

By LT. COL. FRANK F. RATHBUN, AUS, RET.

ONE OF THE MOST SERIOUS charges hurled at the Army's M14 rifle was its failure as a replacement for the Browning Automatic Rifle (BAR) as the automatic weapon for the infantry rifle squad. Now, an open-minded attitude toward the criticism and soldier ingenuity have combined to produce a solution—the U.S. rifle, 7.62mm, M14E2.

When the Secretary of the Army in 1957 announced the adoption of the M14 rifle as a replacement for the M1, one of the advantages he claimed for the new weapon was the fact that it would take the place of four hand weapons in use at the time—the M1, the BAR, the carbine and the M3 submachinegun. But before more than a few months had passed, soldiers and Marines had discovered that the M14 left something—and many said a great deal—to be desired as a fully automatic weapon.

Called the M14(M)—(M) for modified—the piece differed from the M14 only in that it had a selector and an M2 bipod. Though about 8 pounds lighter than the BAR, having a semi-automatic as well as automatic capability, and firing the standard NATO round, it exhibited three major weaknesses in early field use.

The M14(M) had an excessive dispersion, even in the hands of a good marksman; it had a severe recoil, as many a sore shoulder testified; and though not so widely acknowledged as the first two, it had a tendency to “climb” on full automatic.

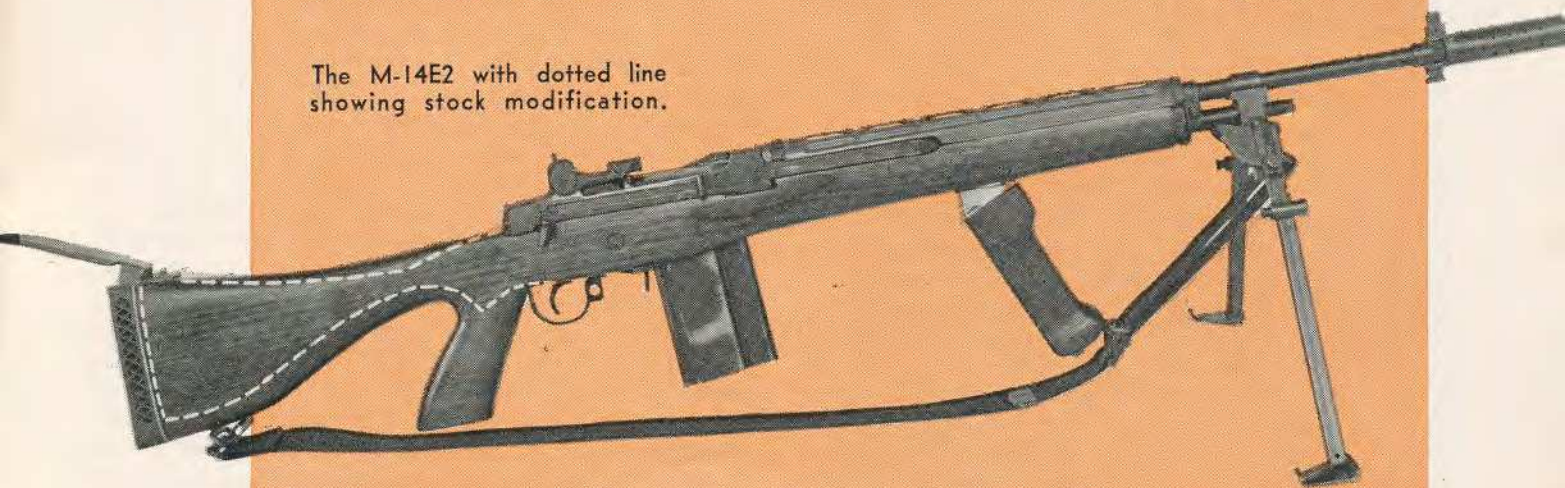
Consequently, the M14(M) was sent back to the U.S. Army Infantry Board at Fort Benning, Ga. for further development in 1961. One of the test officers with the Board, Capt. Durward D. Gosney, a native of Phoenix, Arizona, came up with three major modifications in an effort to make the weapon as reliable as the old BAR. Captain Gosney suggested the following modifications:

A compensator at the end of the rifle barrel that reduces recoil by 25 per cent and also holds down lateral displacement.

A straight-line stock in place of the conventional drop stock, plus a rubber recoil pad to reduce severity of recoil.

*(Continued on page 48)*

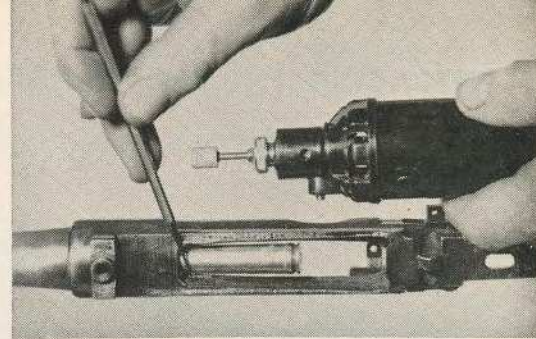
The M-14E2 with dotted line showing stock modification.







Author uses the compact electric grinder and rotary files on much of his stock inletting.



Rail altering for magnum conversions is done with 3/8" stone in Moto-Tool.

## ELECTRIC HAND GRINDERS TACKLE A MULTITUDE OF GUNSMITHING JOBS

**G**UNSMITHS AND DO-IT-YOURSELF gun tinkerers never had it so good. It is not too long ago that we were saddled with hand-held power equipment that was either too bulky and unwieldy for fine work, or was too dinky and inefficient when the size of the tool was matched to the size of the project. These days a gunsmith is badly hampered without some type of multiple accessoried electric tool such as the Dremel No. 2 or No. 3 Moto-Tool.

Following World War II, conversion of military Springfield, Enfield, Mauser, and Jap rifles was at its height. Accurate drilling of these hard actions, for receiver sights and scope mounts, called for some tools most of us didn't have, couldn't get, or didn't know about.

Now we know there just isn't any substitute for a 27,000 r.p.m. Moto-Tool electric grinder, with a 1/8" grinding stone, to locate, spot, and grind out drill starting concaves in hard steels. It gives vibration-free cutting that gets through case hardening rapidly. When the spot is ground out at an angle conforming to that of the drill bit's cutting lips, practically all drill creep-out is eliminated.

After drilling the first hole, tap it, then turn the mount base screw tightly into position. Re-check for square and re-mark remaining holes. Final accuracy of base location depends almost entirely on how the drill starting spots are ground. It is difficult if not impossible to use a center punch to locate starting holes in hard gun action steels, and the Moto-Tool electric grinder is the answer. The tool also is handy for deburring the holes after tapping, or cutting off screws that are too long.

Once I became accustomed to using a small power grinder for hole spotting, it became indispensable, and a second tool was acquired in order to forestall the possibility

# MECHANIZED GUN TINKERING

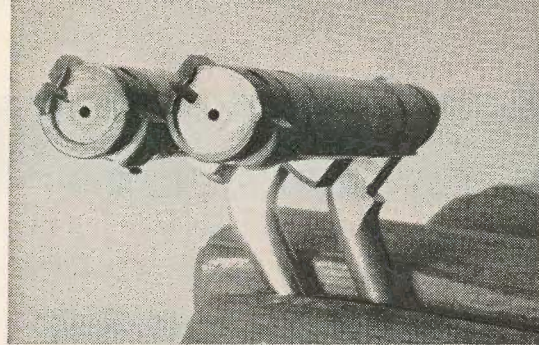
By WILLIAM SCHUMAKER

of the one tool being out for repairs during the critical pre-hunting work season. This also permitted leaving one Moto-Tool set up with the 1/8"x1/2" stone used for drill hole spotting. When dozens of sights and scopes are mounted, I find two tools ready for use actually are time savers.

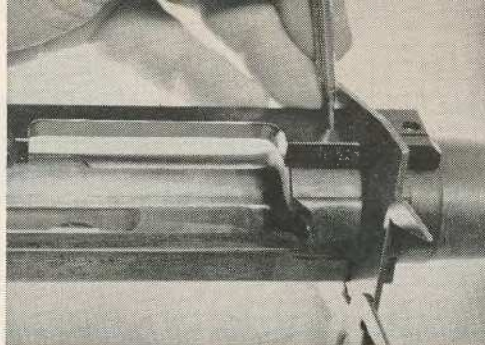
The second most important power grinder accessory I found, turned out to be the No. 409 emery cutting wheel. To some gunsmiths this may sound odd, but our shop does a great deal of trigger pull and sear engaging surface work. I have yet to find a better way to reach into a hardened sear notch and re-face it to proper holding angle. Many sears and their engaging surfaces can be held stationary in a 4-jaw lathe chuck. The Moto-Tool, positioned in the tool post holder, can then be turned on and slowly advanced to the work at the desired angle.

These thin cutting wheels are also terrific for cleaning out damaged screw head slots, cutting new screw-driver slots, cutting off head of rivets, or just cutting a new pin off flush with a unit housing. The heavy-duty No. 3 Moto-Tool takes only four seconds to whisk through an 1/8" pin. It is ideal for removing the heels of drill bits to make them into semi-spade points before hardening. The cut-off

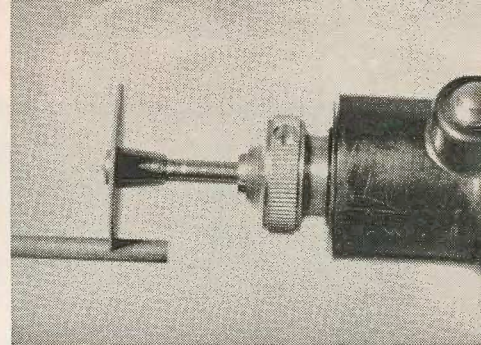




Original Springfield bolt face, at left; altered to magnum, at right.



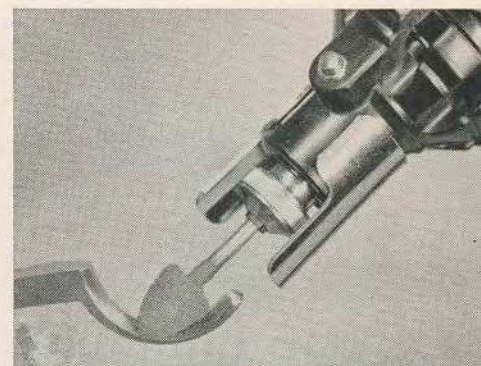
Calipers are used as clamp to hold scope base in place for scribing the drill spot location. Right: Narrow cut-off wheel has hundreds of uses.



Rotary file cuts bolt notch in the stock; stone is used on the action.



Grinding a starting spot on hard actions assures precise hole location. Right: Grit-treated felt bobs prepare the hard-to-reach spots for bluing.



wheels will cut through military sight bands for easy removal, and coil springs can easily be cut to any length.

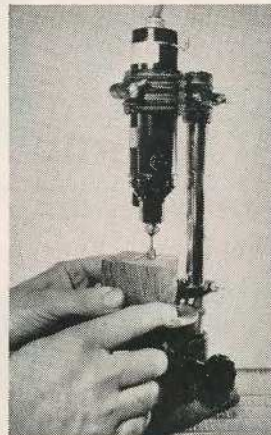
Before any .30-06 can be converted to one of the large belted magnums, it becomes necessary to open up the bolt face and alter the extractor to accept the larger case head. Since headspace is measured from the bolt face to front end of the belt, the bolt face must be opened up before the chambering is begun.

Most rifle bolts can't be cut with ordinary hi-speed bits, and some resist Carbaloy bits; annealing rifle bolts is dangerous and strictly taboo. However, grinding out to the new dimension can be done on a lathe, with the No. 3 Moto-Tool mounted in its optional tool post holder.

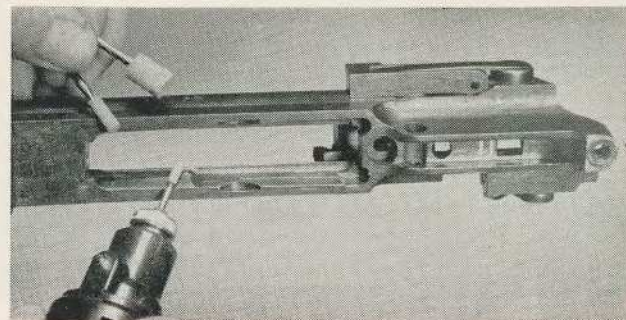
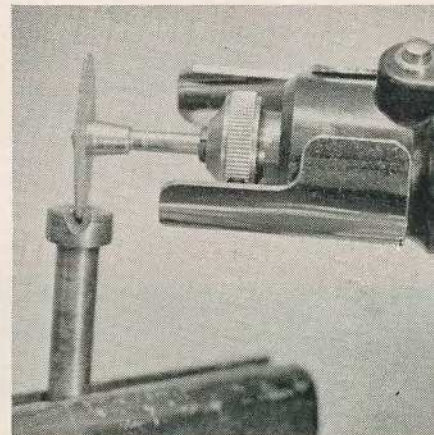
Care should be taken to adjust the Moto-Tool in its tool post holder, so length of grinding stone is parallel with lathe ways and original inside bolt shroud cut. Compound should be set at 90 degrees, or at right angles with lathe cross-feed. When the stone is centered and just clearing the bolt face, lock lathe carriage. Switch on the Moto-Tool, and while it's running, advance compound screw until stone is barely making contact with bolt face. Next, move cross-feed until stone almost touches inside of bolt shroud. Turn on lathe, pre-set for slow speed, and feed grinder into the shroud very slowly by turning the cross-feed screw counter clockwise.

While several different grinding stones will work, a No. 932, 3/8" dia. by 1/2" long, is large enough to keep its leading corner sharp and give a right angle cut at junction of bolt shroud and face.

Proceed cautiously with grinding, frequently checking progress. Over-grinding can ruin a bolt! Cartridge rim should fit into bolt face with (Continued on page 58)

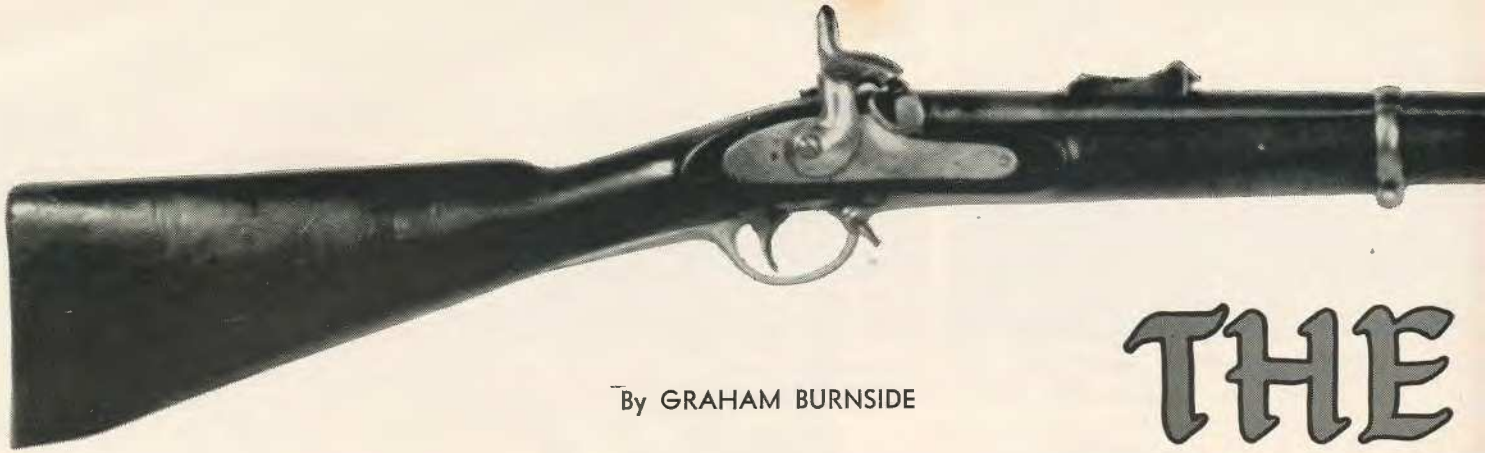


Drill press attachment lets gunsmith rout, shape, or drill. Right: Emery wheel trues screw slot fast.



Grinder stone indicates spot Enfield rail shoulder should be extended to for feeding .300 Win. Magnum.

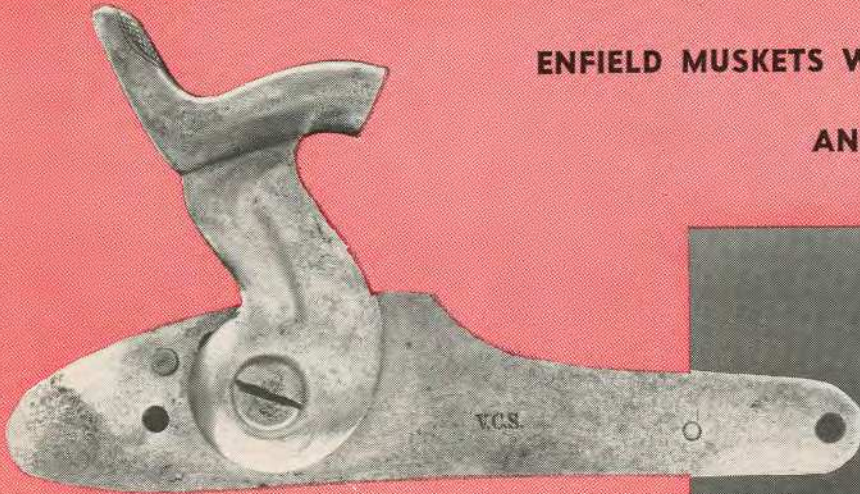




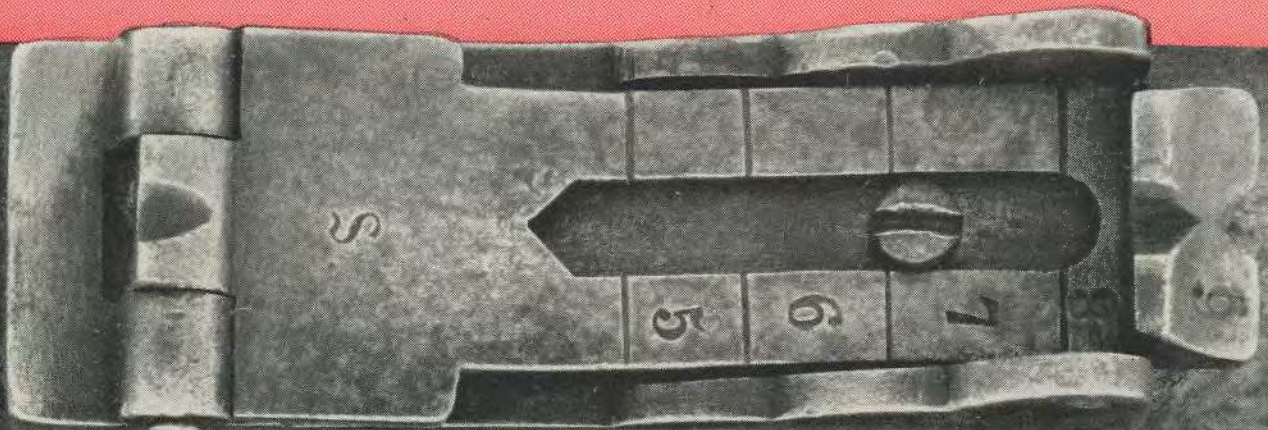
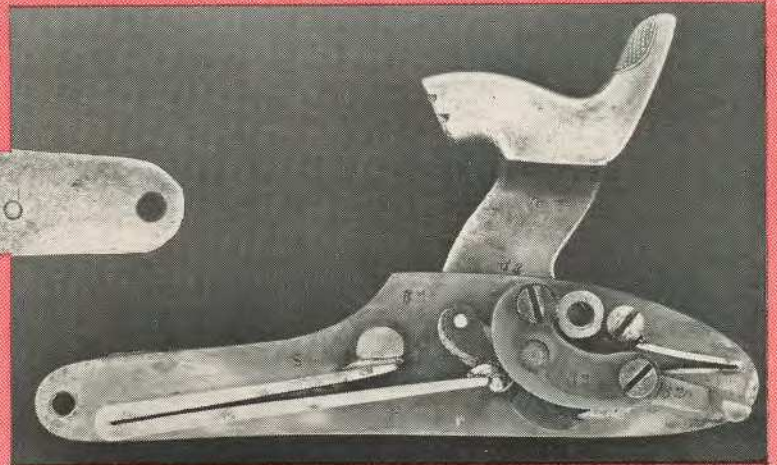
By GRAHAM BURNSIDE

# THE

**ENFIELD MUSKETS WERE ORDERED FOR CIVIL WAR USE,  
AND SOME WERE EVEN MADE IN SUHL**



These photos of the lockplate show the V.C.S. marking on outside, and the typical German use of the serial number on the various parts. The stamped "S" probably denotes Suhl manufacture.



The rear sight, of the familiar British Enfield pattern, differs from the original only in having the Suhl "S."





# SUHL ENFIELD

**D**URING THE CIVIL WAR, all government purchases of military materiel were recorded in a now very rare book, the "Executive Document Number 99." This is no tome that can be read from cover to cover, but for an occasional study or search for one specific item, is very much worthwhile. The firm of Schuyler, Hartley and Graham sold literally tons of equipment to the government, and some of these items are of great interest to the gun collector.

On May 26, 1862, for instance, our government purchased 550 "Suhl rifles, Enfield pattern." The "Enfield" rifle was then the British percussion rifled musket of .577 caliber, and such an arm being made in Suhl, Germany, doesn't appear logical. But when one realizes that the U.S. could not find enough Enfield rifles in England and when one realizes that the craftsmen of Suhl, and other well-known European arms centers, would make anything for a price, the specifications begin to make sense.

On June 21, 1862 the government bought an additional 225 "Suhl rifles, Enfield pattern" from Schuyler, Hartley and Graham. On June 30, 1862, an additional 223 were ordered, and on July 26, 275 more were requested. The total of these four purchases comes to 1,273 "Suhl rifles, Enfield pattern." Maybe the government bought more, but we can only be certain of the above number.

How can these rifles be identified? Did they look just like the English Enfield? How were they marked? Does "Enfield Pattern" mean that they were exactly like the true Enfield, or does it mean they were similar? Were they of caliber .577 like the regular Enfield, did they have a different caliber?

William B. Edwards, author of "Civil War Guns," stated: "While these arms are often described as "Enfields," it is evident from the Commission's decision that they are not, for the words of the decision are, "including the 1,500 made at Suhl, if of equally good quality and similar in calibre and finish."

Obviously the Commission didn't know what the Suhl Enfields looked like because the quote that Mr. Edwards uses was written before the guns ever reached the U.S. Mr. Edwards admits having never seen an Enfield of Suhl manufacture, and guesses that they might bear a fraudulent "Tower" mark.

It is probable that not all of the Suhl Enfields are marked in the same way, since, in all likelihood, several Suhl makers were engaged in the actual manufacture of these rifles, and each maker marked the guns of his manufacture in his own way.

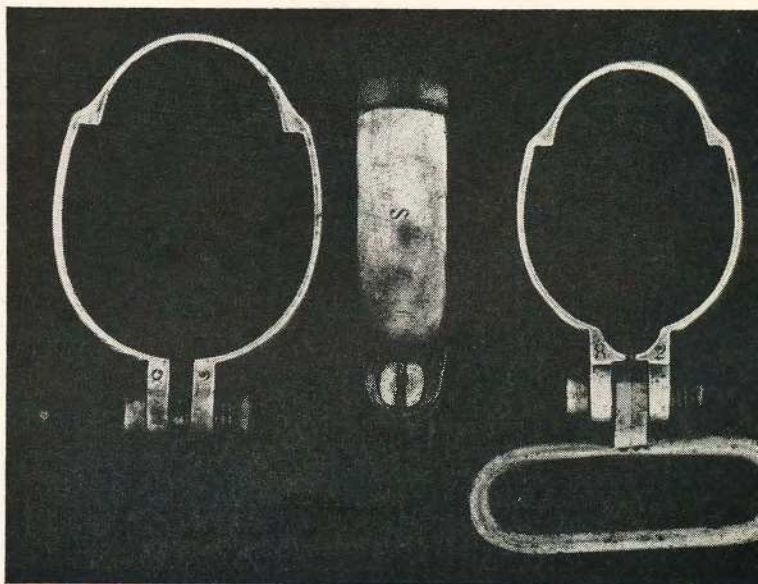
The rifle shown is one of the Enfields made in Suhl, and is the only such specimen that has come to my atten-

tion. The piece is an Enfield, and has all of the details of the regular Enfield rifle of the model. The Germans faithfully copied the English Enfield in every way. It is of .577 caliber, with a 39 inch barrel, has an overall length of 55¼ inches, and the piece weighs nine pounds.

The lockplate is marked with the letters "V.C.S." This stands for V. Charles (or possibly Christopher) Schilling of Suhl. Schilling used to work for Sauer and Sohn, and also for Haenel of Suhl. I have in my files a photograph—unfortunately it is impossible to identify from what part of the gun—that shows the Sauer, Schilling and Haenel marks. Several of the Suhl Enfields are marked with a distinctive "S" which probably stands for "Suhl."

Following German tradition, the parts are marked with the serial number. The number 482 is found on the toe of the butt plate, and the last two digits of the serial number are used on the remaining parts. As can be seen, workmanship and quality of the piece are excellent, and are representative of Suhl's artisans.

Orders for 1,273 guns of a kind may sound like a great deal, but when considered next to the multitude of rifled muskets purchased and used in the Civil War, it is not an overly large number. How many of these Suhl Enfields may have survived hard *(Continued on page 65)*



The three barrel bands are marked with the Suhl "S" and also with the "82" portion of the gun's serial number.





# THE FRONTIER GUNSHOP

BY JAMES M. TRIGGS

PIONEER AMERICAN RIFLES:

THE U. S. RIFLE, Model 1841, was the first muzzle-loading percussion arm manufactured by government arsenals. Previous to 1841, U. S. percussion arms were conversions of the older flintlock models.

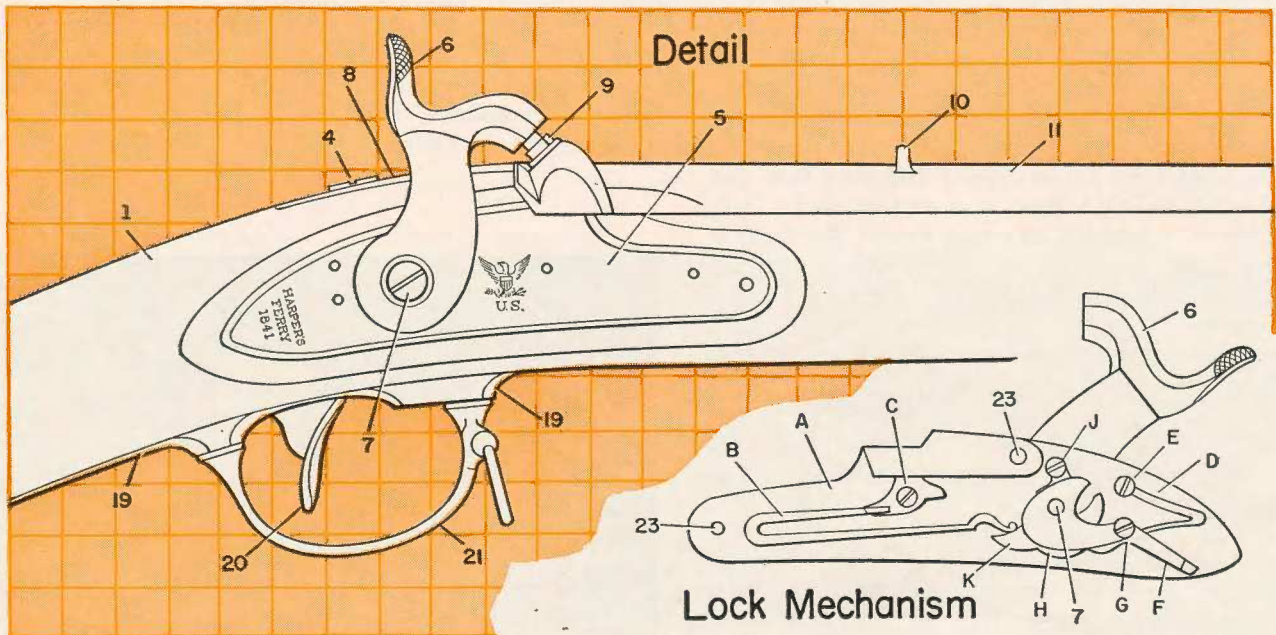
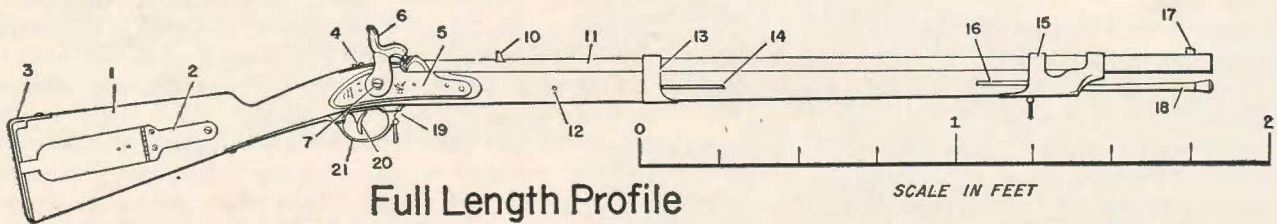
The Model 1841 rifle was first known as the Jäger rifle and was a rugged and well designed arm. Made in caliber .54, it employed a paper cartridge with a spherical bullet. Most Model 1841 rifles were manufactured in the U. S. Government Arsenal at Harper's Ferry, but a few were also produced at the Springfield Arsenal as well as by Remington, Tryon, Whitney, and Robbins & Lawrence, under private contracts. In the 1850's, the Model 1841 rifle had become known as the "Mississippi" rifle due to its most effective use by Jefferson Davis' Mississippi Regiment.

After 1850, the Model 1841 rifle was altered to caliber .58 in order to use the Minié ball. Many of the rifles were returned to government arsenals for this change and at that time, improved adjustable rear sights and several different types of bayonet studs were added.

Disassembly of the Model 1841 rifle is accomplished as follows: Withdraw ramrod (18) and remove tang screw (4). Place hammer in half-cock position and remove lock plate screws (23) from left side of stock. Remove lock (5) from right side of stock. Press in band springs (14, 16) and slide rear front bands (13, 15) forward on barrel. Remove barrel (11) with tang and breechplug (8) from stock (1). Remove guard plate screws from underside of stock and pull trigger mechanism out bottom of stock.

Lock mechanism can be dismounted by compressing mainspring (B) and removing it from lock plate (A). Remove hammer screw (7) and pull hammer (6) off tumbler shaft. Remaining lock parts are easily removed.

## U.S. Rifle, Model 1841



### PARTS LIST

- |                            |  |                             |
|----------------------------|--|-----------------------------|
| 1. Stock                   | 8. Tang & breechplug                     | 15. Front band & swivel     |
| 2. Patchbox assembly       | 9. Nipple                                | 16. Front band spring       |
| 3. Buttplate & screws      | 10. Rear sight                           | 17. Front sight             |
| 4. Tang screw              | 11. Barrel                               | 18. Ramrod                  |
| 5. Lock, complete assembly | 12. Ramrod spring pin (spring not shown) | 19. Guard plate             |
| 6. Hammer                  | 13. Rear band                            | 20. Trigger & pin           |
| 7. Hammer screw            | 14. Rear band spring                     | 21. Guard bow (with screws) |

### LOCK PARTS

- |                            |                 |
|----------------------------|-----------------|
| A. Lock plate              | F. Sear         |
| B. Mainspring              | G. Sear screw   |
| C. Mainspring seat & screw | H. Bridle       |
| D. Sear Spring             | J. Bridle screw |
| E. Sear spring screw       | K. Tumbler      |



(Continued from page 13)  
loads. More data on grains (not drams, that's foolish) of powder—all types—would create interest to shotshell people.

Sherm Schauer  
Cincinnati, Ohio

### From the Governor

The article in the June issue of GUNS referring to the Resolution adopted by the 1964 session of the Virginia General Assembly has been brought to my attention, and I write to express our appreciation for the manner in which the magazine presented this story to the public.

Virginia prides herself on leadership in many fields and the Resolution of the Assembly on the question of the right to keep and bear arms deals with a fundamental principle first enunciated on the soil of Virginia.

Albertis S. Harrison, Jr.  
Governor  
Commonwealth of Virginia

### Smith & Wesson Confusion

The June issue of GUNS Magazine carried an article titled "Saga of Smith & Wesson," by Louis Wm. Steinwedel. Although the article was checked by S&W officials, we have received some objections to the historical "facts" presented. To clear up this matter, here are excerpts from a letter we received from Herschel C. Logan, one of the leading firearms authorities in the U.S.

*It is seldom that I take typewriter in hand to write concerning this or that article in any magazine, so perhaps you will pardon it this time.*

*As a subscriber to GUNS since its inception, I am amazed, and disappointed, at the article entitled "Saga of Smith & Wesson" in the June issue. But to be specific, here is my criticism concerning the Grand Duke Alexis and the first American revolver produced by Smith & Wesson.*

*1. The royal buffalo hunt took place in Nebraska in January of 1872—not 1869 as has so often appeared in print.*

*2. The prototype of the S&W American was completed in June, 1870—hence the gun could not have been used in 1869.*

*3. A contract between the representatives of the Russian government and Smith & Wesson was signed May 1, 1871.*

*4. The Grand Duke Alexis arrived in New York harbor aboard the Russian frigate Sveltana on Sunday, Nov. 19, 1871. He remained on shipboard until Tuesday, Nov. 21, due to a storm.*

*5. The Grand Duke and his party visited the Bridgeport cartridge factory on Dec. 7, 1871.*

*6. On Dec. 7, 1871, the Grand Duke and party visited, and were entertained royally by officials at the Smith & Wesson factory. The Grand Duke was presented with a hand-size revolver, engraved with gold inlays, and having pearl grips on which appeared the coat of arms of both Russia and the United States. After a reception that evening, the Duke left for Boston.*

*7. Later the same month, the Duke was given a reception at the White House. Here he met Gen. Sheridan who insisted that to see America, he should go to the Middle West and take in a buffalo hunt.*

*8. On January 13, the train bearing the Duke and party arrived at North Platte,*

*Nebraska, where he was first introduced to Buffalo Bill Cody. When the party headed for the hunting grounds some 50 miles away, the Duke had with him the revolver presented to him by Smith & Wesson more than a month earlier.*

*9. Buffalo Bill had nothing to do with influencing the Grand Duke to place an order with the factory. As indicated above, the factory had been in production on the order for several months at the time of the Duke's visit.*

*10. The Grand Duke did not return to the factory after the hunt. He was entertained by the Kansas legislature on January 22, 1872. From there he went to St. Louis, then to Louisville, Ky., thence to Pensacola, Fla., where he sailed for Cuba, arriving at Havana on Feb. 27, 1872.*

*All of these facts could have been substantiated by a bit of research. Refer to the fine book "Smith & Wesson Revolvers," by John E. Parsons, and to my article entitled "Royal Buffalo Hunt," in the Oct. 1952 issue of "The American Rifleman."*

*The Cody angle of the Russian contract is believed to have been the brain child of some enterprising advertising man. But it has no fact back of it.*

*I have no undue criticism of the author—he was merely falling into a trap laid by many writers of the past. It is high time, however, that the true facts be presented.*

*Kindest regards . . . and I do enjoy GUNS.*

*Sincerely,  
Herschel C. Logan*

Upon advising the author of this article, Mr. Louis W. Steinwedel, of these facts, we received a letter from him, which said:

*This piece was written some time ago, and most of the original research notes have been discarded by now. However, one of the sources was "Smith & Wesson Guns," by Martin Rywell, in which he gives much the same account of the buffalo hunt as my article (page 38). In the same book, there is a tracing of Smith & Wesson history by the president of the company, Carl Reinhold Hellstrom, in which he says:*

*"During the summer of 1869, The Grand Duke Alexis of Russia visited the U.S.A. and was taken on a buffalo hunting trip by the famous Buffalo Bill Cody. Cody was armed with a .44 American Model Smith & Wesson revolver, and the Grand Duke returned to the East with profound respect for Cody's skill and the performance of the heavy gun. In fact, he proceeded directly to Springfield to discuss the production of a slightly modified version for the Russian Army . . . (page 75).*

*Also, some material which I received directly from Smith & Wesson, as I recall, indicated the same facts.*

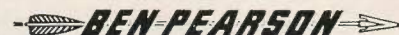
*Mr. Logan is an eminent and well recognized authority, and I have no doubt as to the authenticity of his commentary. Upon reflection, his explanation that the "Cody angle is believed to have been the brain child of some enterprising advertising man" seems quite logical. The error is mine, and I make no attempt to shed the responsibility for it. I am glad you are going to make a correction in a forthcoming issue, and I hope that you will add my sincere apologies to it.*

*Very truly yours,  
Louis Wm. Steinwedel*



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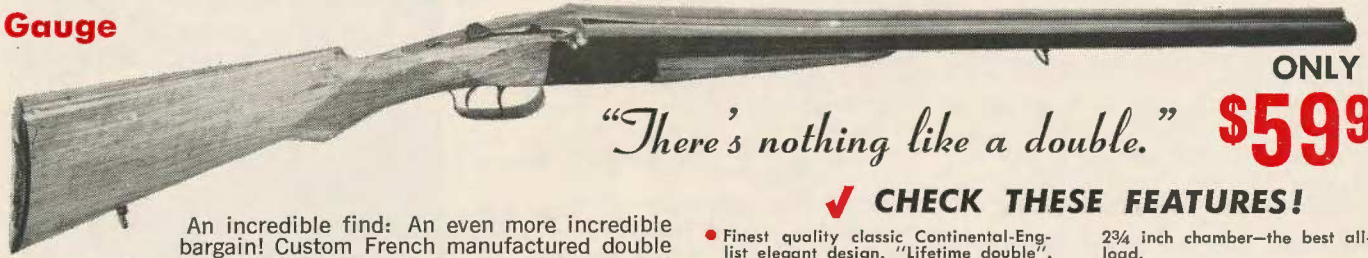
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Cal. .30-06



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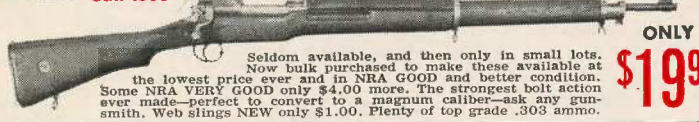
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Cal. .303



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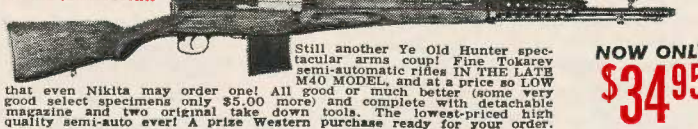
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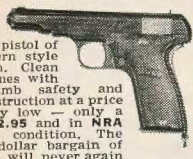


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# Pull!

BY DICK MILLER

**L**UDLOW FISH & GAME Club hosted the biggest and best Bay State skeet championships at Ludlow, Massachusetts, May 16-17. This year's Massachusetts State and Open Skeet Championships offered \$1,200 in added money, and \$800 worth of the finest trophies this column has seen at any state shoot. The Bay State tournament was originally scheduled for Westover Air Base fields, but was changed to Ludlow to avoid conflict with Armed Forces Day at the air base.

Joe Sullivan and his able crew did a fine job with the shoot, on short notice, and smoothly guided a record entry list over six fields at the active Ludlow lay-out. In keeping with oft-mentioned interest in small gauge shooting at the Ludlow club, and in Massachusetts, the shoot got under way with a big list of 77 entries in the .410 event. There were 92 advance entries in the 20 gauge program, and 142 12 gauge gunners were on record before the little guns started popping. Attendance was swelled by beautiful weather and growing skeet interest in New England.

Only a choppy wind that kept scores down and sent some high-ranked gunners back home muttering to themselves about poor scores marred the week-end.

Fifty straights were as scarce as the

proverbial hen's teeth on Saturday in the .410 and 28 gauge events, but at least one gunner turned the trick and took home the silverware in each gauge.

Bruce Barnard of Falmouth was state champ for the first time, displacing the perennial Dick Shaughnessy, '63 .410 champ. Gerald Malanson was state runner-up. Open champ was Gerald LeFrancois, with P. Sullivan runner-up. Malanson teamed with Paul McPherson of West Acton to win the two-man title, topping Jim Downing and John Swidrak.

Paul McPherson repeated his 1963 victory in the 28 gauge event, with a strong effort in the wind. Jim Drewitt took the runner-up spot. J. Cadario was the out-of-state champ, topping the always tough H. Contant. Yelland and Tedford were the top Bay State two-man pair, edging McPherson and Malanson.

Things began to pick up in the 20 gauge race, and a smattering of 100 straights went on the board. Floyd Scott found his shooting eye, and wind-doping radar in good enough shape to take the Massachusetts title. Jim Downing, who finished the two day program on top for High-Over-All, took the runner-up spot. Bill Norman was open 20 gauge champ, besting Dan Fishell. Joe Sullivan

teamed with winner and fellow club-member Floyd Scott to put a new two-man team victory in the record books. Downing and Swidrak were second Bay State two-man pair.

Sunday morning dawned bright and beautiful, but that little choppy wind was still bouncing the targets, and while a respectable smattering of perfect centuries appeared on the score board, it was apparent early in the day that the old skeet story of break 'em all and then outlast 'em in a shoot-off, was not the Bay State story in 1964. Too many good gunners dropped targets that they expected to hit. The 1964 Bay State and open winners won their silverware the hard way, concentrating on every target.

It would not seem like a Massachusetts skeet tournament if it was not reported that Dick Shaughnessy won an event. Let it therefore be recorded that the same Shaughnessy became the 1964 12 gauge champ. Bill Yelland was state runner-up, P. Sullivan was open high-over-all, topping J. Cadario. Jim Downing bested Paul McPherson for Massachusetts HOA Honors. Ed Ulrich edged Bill O'Connor by one target for industry honors, when Bill had trouble in the Ludlow "Death Valley" field, a field that wrote "finis" to more good skeet scores in 1964. E. Docherty topped the seniors, and H. Barnard Jr. appropriately enough was high junior. Yardis (Mrs. Floyd) Scott sweated out the Ladies trophy, after posting a good effort early in the day.

Joe Sullivan, who knows how to shoot guns as well as make them, used one of his employer's pump guns to break 100 straight .410 targets at the Hartford (Conn.) Gun Club just one week before the Massachusetts tournament. Joe has now broken 100 straight in each of the four skeet gauges, and is one of a select few to break the century in the little 2½ inch .410 event. He may also be the only southpaw skeet gunner in history to turn the trick. (How about it, readers—how many left-handers have broken 100 straight with four guns, and 100 straight in .410?)

Joe's shooting suffered in the host club shoot, possibly because he is president of the Massachusetts Skeet Shooting Association, a national director for his state, and skeet chairman for his club, the 1964 host club. I was able to get a little background on the shoot by running along side of the busiest man on the field as he wore one or more of his several hats. After running out of breath trying to keep up with Joe, I checked with his Eva, who was about as busy as hubby, except for shooting.

Another shooter not up to par was Dom Piscatelli, the Hamden, Conn., sporting goods dealer, who was fresh from a fine week-end in Montreal, where he and his wife won nine medals and two championships. When I commented that they had won almost everything but the clubhouse, Dom mentioned that they had a chance for a piece of that, when a wind gust unroofed the clubhouse. Some shooters who moaned about the wind at Ludlow were reminded that at Montreal it was not easy to stay on the post because of high winds, and even guns were being tossed about. All of the shooters who were present for the big day at Ludlow can have a re-run, and hit the targets they missed in May, by taking in the Eastern States Open, and George Docherty Sr. Memorial this month (September 12-13) at Ludlow for 4 guns, and 300 targets over six fields.

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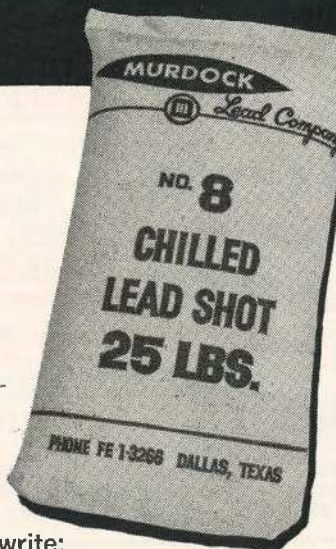
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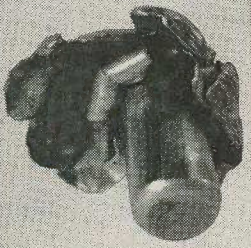


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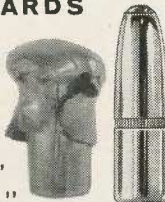
## DEER AT 500 YARDS

**BULLET:** 6 mm 87 gr. Hornady S/O Spire Point  
**RIFLE:** Custom 243 Win.  
**LOAD:** 47 grs. 4831  
**HUNTER:** Joe Adams of Dubuque, Ia., hunting in Wyo. "I was amazed at the damage your 1/5 oz. pill did to this distant muley."



## MOOSE AT 350 YARDS

**BULLET:** 30 cal. 180 gr. Hornady Round Nose  
**RIFLE:** M70-300 H&H  
**LOAD:** 68½ grs. 4831  
**HUNTER:** John Bullen of Prudenville, Mich., hunting in Canada. "2 spent bullets, 2 nice moose. Thanks for such a dependable product."



## DEER AT 200 YARDS

**BULLET:** 30 cal. 150 gr. Hornady S/O Spire Point  
**RIFLE:** 30-06 Sporter  
**LOAD:** 46 grs. 3031  
**HUNTER:** Gordon Valgren of Minot, N. Dak. "almost perfect expansion . . . impressive results . . . my bullets will always be Hornadys for reloads."



## BEAR AT 80 YARDS

**BULLET:** 30 cal. 180 gr. Hornady S/O Spire Point  
**RIFLE:** 300 Weatherby Mag.  
**HUNTER:** Howard D. Mills, Anchorage, Alaska, who made one-shot kills on bear, moose, ram, and caribou on the same hunt. "Expansion was perfect . . . none compare to your 180 S/O for accuracy and high performance."



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# QUESTIONS and ANSWERS

By GRAHAM BURNSIDE

Questions submitted must carry a Shooters Club of America number or must be accompanied by one dollar. Questions lacking either number or dollar will be returned. If you want a personal answer, enclose a stamped, self-addressed envelope.

## Short Barrel Model 92

I have heard that Winchester in one time made the Model 92 lever action rifle in .32-20 caliber, with a saddle ring and 13 inch barrel.

If this is true, what is the value of such a rifle in very good condition? Am I right in assuming this rifle is not legal?

Arvin Chaikin  
Kerhonkson, N.Y.

My reference states that the short Winchester Model 1892 had a 14 inch barrel. At any rate, the arm is very uncommon for several reasons.

First, many were rebarreled when the laws restricting the short barrel were passed; second, the bulk of these short 92's went to South America.

I would guess that such a piece in "very good" condition is worth \$100 or better. Yes, the arm is covered by the Federal Firearms Act, and is subject to registration.—C.B.

## Radom Pistol

I have an automatic pistol chambered for the 9 mm Luger cartridge. It is about the size of a U.S. Army .45, and seems to be a copy of it. On the left side of the slide is the following: "F.B. RADOM VIS Mod. 35 Pat. Nr. 15567," and the Nazi eagle.

There are also other letters and numbers in various other places. The frame is held together with rivets.

Walter G. Holmes  
Lancaster, S.C.

Your Radom semi-auto pistol should bear resemblance to the 1911 Colt auto as the Radom is a modification of the Browning System (the Colt is of Browning design).

The John Browning design, or pattern of 1935, made in Belgium gave rise to the Radom that was manufactured at the F. B. Radom Arsenal in Poland. The Germans called the Belgian Browning of 1935 and the Radom "P-35."

They are fairly common in this country and usually only bring about \$20-\$25 when in top condition.

Your piece with the Nazi mark was obviously made after the invasion of Poland.—C.B.

## Remington Model 31

I would like to know when the Remington Model 31 pump shotgun was discontinued, and the value of a Model 31F with two sets

of barrels, in good condition. Do you feel that parts for this gun will be available for some time.

Also, where could I find information on Miller and Valgries Drillings?

F. C. Meadows, M.D.  
Coral Gables, Florida

The Remington Model 31 slide-action shotgun was first made in 1931 and was discontinued in 1949. Parts should be available for some years to come.

Used shotguns—even of the fancy grades—do not have the value that one might imagine. If someone wants to sell such an item they'd best seek out a particular buyer and play it by ear. There is no constant demand for the high-priced, fancy-grade shotguns that I know of.

It has been my understanding that Miller & Valgries were retailers, much as Abercrombie & Fitch are in this country. I do not know where data is available.—C.B.

## Martini Accuracy

I have a .310 Martini rechambered to .32-20. Accuracy with .311" cast bullet is lousy, of course. It occurs to me that the original .310 Cadet cartridge uses a bullet with a heel of .310" diameter which would fit the .32-20 case to perfection, yet has a .320" bearing surface to fit the grooves.

Do you know of any source where I might procure a bullet mould to cast these .310/.320" 120 grain slugs? Lyman does not list any such number, and I'm sure Hensley & Gibbs wouldn't have them. Any idea?

Failing in finding such a mould, how practical would it be to rechamber this gun to .32 Winchester Special? The barrel on this gun is like new, and I don't care to discard it.

John W. Rockefeller  
Grand Island, Nebr.

Possibly I'm going to advise you to do something that you shouldn't—but here goes anyway. I used to have a .310 Martini that was quite original and would accept certain brands of .32-20 ammunition. I had the chamber relieved somewhat and then it would chamber all brands of .32-20. I stuck to factory loads that had lead bullets only. I never used any patched or soft point bullets and the accuracy was excellent. I used the gun on raccoon and jackrabbits and made good clean kills well over 100 yards. One 'coon I bagged with the little rifle was about 130 yards away and I brained him with a single shot from the kneeling position.

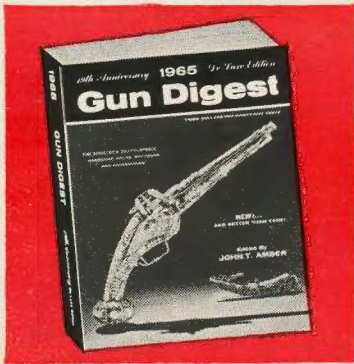
Before I would rechamber your rifle to the Winchester .32 Special I would be tempted to load a few 100 grain .32 Smith & Wesson bullets (.313) into the .32-20 case and see what happens. You may be quite pleased with the results.—C.B.





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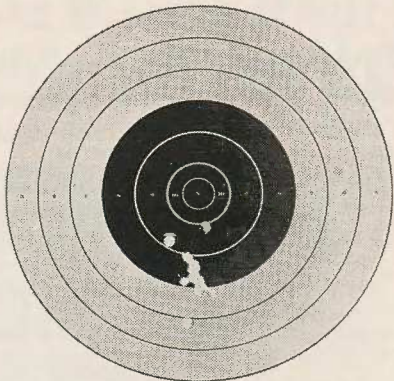
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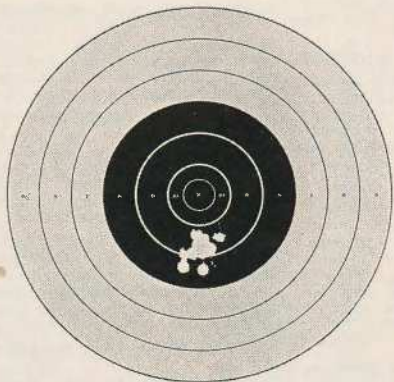
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## HOOSIER HOG HUNT

(Continued from page 18)

others who had been there, and on our way to Indiana, we compared notes. The only conclusion we reached was that we would not split up, that we would be certain to have a backer-upper if the need arose. Since I was lugging two cameras around, I'd keep out of the way of the hunters; I would have my Ruger .44 Magnum carbine so that I could shoot a hog if I was in a position that allowed a clear shot. I selected the Ruger since it is lightweight and short, and having my hands full with two cameras, it was necessary to sling the gun over my shoulder and forget it. None of my other guns was quite as suitable, and I put a Latigo sling on the carbine. A few rounds of Remington ammo, several rolls of film, a light meter, and extra lenses for my Contaflex would keep me from blowing away in a stiff breeze.

We arrived at the Blocher Game Preserve a few minutes before the sun got there, and there was a chill in the air. "Just follow the road, till you get to the woods. To the left, there's the swamp, and there you may find 'em. If they ain't there, try the other side, up near the ridge. If they ain't there, we'll get the hounds to find them—they hogs can be any place." As a parting shot, the older Blocher boy added: "If they are in the swamp, watch for a red pig. He slashed a guy's leg coupla days ago."

When we got near the woods, we stopped for a last smoke. I loaded my cameras, and the click of ammo being fed into magazines was reassuring. Ned was using an issue M 1 carbine with Winchester 110 grain loads; Bud used a Marlin Model 336 in .35 Remington with Remington factory loads; Bob had his Ithaca with Remington slugs, and I used the Ruger carbine, also with Remington ammo. I had meant to load some ammo, but in the last minute found that I just did not have the time to target the loads and fell back on the factory fodder that had done well for me on previous hunts. Ned and Bud packed .38 Specials, while Bob, who is an accomplished shot with the Colt .45 ACP, packed his dad's .45.

After an hour's poking around the woods, we finally did see two pigs. One was coal black, the other, also black, had a white stripe running over the right shoulder. They disappeared through the underbrush, and we made a stab at circling them, thus driving them out in the open where one of us could get a shot. Looking at one of those razorbacks, you'd think you could hear them coming a mile away. But when it comes to moving silently through the underbrush that is lush and green at the end of May, the picture changes rapidly. Our encircling movement finally worked, but inadvertently we had split the pigs up. At 40 yards, Ned spotted it the same time I saw it. Bob, though closest, would have had to shoot through a lot of brush, and Bud had the clearest shot. That settled it. His Marlin roared, the pig went down, and we got there just as the hog got up again. Bud let go with his .38 Special, and Ned finally managed a shot through the spine. Bud's aim, though good, had missed the vital areas, but Ned's shot did the trick.

This may not have been exciting shooting, but then preserve shooting hardly ever is hair-raising, and this was just about the roughest type of preserve hunting any one of us had ever encountered. There was little help or guidance, and we were on our own. The next shot was mine, and that simply was luck. I had stopped to change film, and just as I closed the camera, the black hog that had eluded us before, came in and out of a clearing in front of me. By the time I had put the cameras down, unslung my carbine, the hog was 40 long steps away. He was quartering and moving slowly. I settled the scope on his shoulder, followed through until I could get a clear shot, then let her rip.

That razorback had not read the book. When the bullet hit him—and on autopsy the heart and lung were nothing but bloody pulp—he went into high gear. I placed another shot which struck about one inch back of my first shot. Both bullets went clear through him, and now the hog really cut in the afterburners. Another five steps and he would disappear in dense, jungle-like brush. Before I had a chance to shoot the third time, he piled into a tree, backed off, piled into the tree again, back off once more, and dropped dead. He had traveled 20 yards!

Two down, two to go. Bud went back to get the car, and Bob and Ned were teamed up as hunting team, while I would come along for pictures and lend a helping hand if one was needed. This time we hunted the swamp, and the skeeters were just a bit smaller than a Boeing 707. We had repellent along, but this was back at the station wagon. We went after the pigs, ankle and knee deep in mud and water, ready to brave skeeters and pigs. After a bit of slobbering around and some unscheduled ballet dancing in mud, all three of us spotted a red hog, resting comfortably in a mud wallow. We approached as close as we dared, and Ned pitched a branch at the hog. The razorback got to his feet slowly, then suddenly started moving off at a trot. Bob let go, the pig grunted, recovered his feet, and was off. Bob had a second shot, but was not certain if the shot was well placed. The first slug looked good, had sounded like a solid hit.

No matter how hard we looked in an area of about 50 yards square, we could not find any blood trail. Finally we had worked over the immediate area, and were convinced that the pig had taken off. Now Bob made things a bit more difficult. He insisted that he had hit the porker, the squeal had sounded like that of a hurt pig, but no blood, no trail, no pig. About 100 feet from where Bob had fired, I found the first blood sign, leading directly into a gully that was sporting waist-high weeds and trees so dense that you had to turn sideways to get through. Ned took the lower point, Bob to the high point, and I took the middle. I tucked the cameras in the pockets of my bush jacket, and grabbed the carbine, making sure I had a round in the chamber.

The blood trail led into this jungle, and we circled around. Nope, the pig had not come out of the weeds. We started at one

(Continued on page 42)



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*(Continued from page 40)*

end, laying down a barrage of stones and sticks. None of us was hero enough to go in after a wounded pig, and we figured that the hog would react to being hit with a stone or a hunk of wood. Suddenly Ned spotted movement at the other end of the patch, the same end where we had come in. No doubt about it, it must be Bob's pig, and Ned was the first to see some blood signs. The hog had doubled back and was about to escape back into the swamp. We too doubled back, giving the wounded pig plenty of space. Finally we saw the movement close by, the weeds were swaying more and more, and we could only hope that it was Bob's razorback. Finally, a red back appeared, and being ringed by the three of us, it once again fell to Ned to use his carbine. This hog had tusks that were just slightly short of 3 inches, the longest set of tusks that we had taken. Ned went and got the wagon, while Bob and I dragged the hog to the nearest trail that Ned could manage with the car.

This left Ned, and he held out for a big hog with big tusks. One of the employees of the preserve finally showed up to do the honors. Yes, there were some big ones around, but nobody could tell how big the tusks would be. I wanted to try for a color shot of an oncoming pig, preferably taking the picture the moment the hog got hit by the bullet. Ned was agreeable, I was ready, and all we needed was the hog. After some cruising around, the preserve employees managed to steer one our way. Bud grabbed his Marlin, Bob made for the far edge of the trees to act as backer for Ned, and I dropped one camera and my gun off at the car. Ned wanted a shot at the pig, preferably a frontal one, and I would have to stand behind him with the camera, photographing at an angle. Everything was set, and the big black boar came out of the brush, cutting out at just the angle we had anticipated. He made about three steps, stopped, made another step, stopped again, then suddenly turned and made for Ned and me, from about 10 feet away. Ned waited until I was in the position for my picture, but the pig did not wait. He put his head down and came right toward Ned. That was too much for TV's Uncle Ned—he let go with the carbine, and got the charging porker right through the right eye. The pig dropped like pole axed. Yes, I got my picture, but I was a split second too late, and the shot shows that Ned had moved out of the way and the darned pig was only four feet away from me —and me without gun or a handy tree nearby!

On the hoof, Ned's razorback weighed over 200 pounds, and dressed he topped the scales at a very respectable 157 pounds. Bud's animal weighed 83 at the locker plant, mine tipped the scale at slightly over 60, and Bob's, with the largest tusks, was just over 50 pounds.

At the coffee and smoke session later on, we were amazed just how relatively tough those razorbacks are, and how mistaken we were at our guesses at their live weight. We had consistently over-estimated the weights, and we had also found that razorback hunting on a preserve is not a put and take proposition. You got to work for those pork chops!





## MONSTER TROPHIES FROM THE ARIZONA STRIP

(Continued from page 26)

mule buck weighed 309 pounds and came from the Kaibab before the big war. As late as 1960 however, a 400 pound buck was taken in the Strip. This buck had its legs cut off at the hocks and was not weighed until a week after it was killed. It weighed 285 pounds. For a moment, let us assume that the four legs weighed 15 pounds which would make its dressed weight an even 300. We know that big bucks lose about 25 per cent of their total weight in dressing, therefore a 300 pound dressed out buck would weigh about 400 pounds on the hoof.

Today, it is estimated that 2,500 persons hunt the Strip, but only a few connect with the big busters. This hunt is akin to a two



week hunt in Canada or Alaska in importance. It involves Jeeps, trucks, snow gear, extras of everything, grub for two weeks and 60 gallons of water. When you get back into that canyon-cut country, you may see the fabled Christmas Tree buck that is the talk of the trophy hunters here in the west. At least three persons have seen this buck in recent years—they agree that he carries 12 to 15 points on a side and the spread is not less than 44 inches.

My assistant guide, Jim Tankersley, saw that buck in 1963, as did Carl Green. Cloyd Sorenson tells me that the buck may be dead and may never be found. He saw the two-toned buck near Mt. Dellenbaugh, and the binoculars showed the deer at not less than 44 inches at its widest spread. Sorenson fired his .30-06 at 250 yards and thought it was a hit, but the buck shook his head and jumped out of sight. Following the trail,


which was made easy by a rain the night before, Sorenson found where the buck had fallen in an open, flat area, indicating a hit. The trail led to a canyon, shown as 2200 feet deep on the map, and there the trail was lost as other deer had messed it up. Sorenson returned the next morning and spent the entire day looking for some sort of sign. He was sick about the whole thing, but doubts that the buck would live very long, though it did walk several miles.

We had heard stories about this buck for several years. It was described as nearly black from the shoulders up across the back. Then, toward the rump, it pales out to almost cream, giving the effect of a two-toned buck. The few men who have seen him report that it is quite noticeable, even from a distance.

Though I have not seen this particular buck, my hunter and I did see a buck that was only a four pointer, but he couldn't have missed 350 pounds.

We only saw six bucks in a week, but they each weighed about 300 on the hoof. My hunter finally killed an eight and six pointer that dressed out to about 250 pounds. He had some velvet on his antlers, which was unique, since the velvet is usually gone by early September. Most muleys stand about three feet at the shoulder. When ready to strip the velvet, he'll find a small and pliable tree, and begin bashing his rack up and down. An average size buck can rake the bark off a tree up to five feet from the ground; the big Strip bucks leave their marks six feet from the ground.

I recommend a caliber of not less than .270, and a bullet not under 150 grains. Lighter calibers could be used by the more experienced hunters, but after all, some of these deer weigh as much as a cow elk, so be guided accordingly.

Going after Strip bucks is a "bring it all with you" trophy hunt, and it should be planned for at least a week or ten days. You'll need chains, shovels, cold weather gear, about 30 extra gallons of gas, and extra tires and tire changing tools. If you are after a real trophy buck, you'll also need the first and most important prerequisite of a trophy hunter—an inexhaustible supply of patience. 



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# HOW TO DETERMINE SHOTGUN EFFICIENCY

(Continued from page 21)

This table assumes that, of the above shot sizes, No. 10's represent the ultimate in deadly crow prescriptions. Since I've already made the transition from 6's to 9's, and have been very happy with the efficiency of that change, I'll freely admit that No. 10's are the ultimate in shotshell loadings for the job.

Thus, I've given 10's a 100 per cent rating and, using them as the measuring stick, any reader can check the above table to see just how the other listed shot sizes compare with 10's.

This is no blind stab in the dark. Several friends who have, on my advice, handloaded No. 10's, have since given their enthusiastic and unqualified approval of them as superb crow loads. Thus I feel the time is overdue for shotshell makers to put No. 10's on the market; not only for crows, and the much smaller magpies of my native West, but also for such small shotgun game as quail, doves and jacksnipe. They'd make wonderful loads for all these species, especially when considered in the light of the many shotshell improvements that have come into being during the last quarter century.

Some shotgunners may think I'm gilding the lily with these suggestions. For them there's no proof equal to testing their own loads and making their own deductions. One round of tests should convince even the most dubious. If they take that conviction afield they'll be even happier.

Finally, we come to another table, calculated to show the killing effect of pellets of various sizes. The following applies to shotshells loaded to muzzle velocity of 1,200 fps, which is the approximate speed of the No. 9 skeet loads I use:

	Size of shot				
	6	7½	8	9	10
	<i>Wt. per pellet in grains</i>				
	1.94	1.25	1.07	.749	.503
	<i>foot/pounds energy, per pellet, 40 yds.</i>				
	2.22	1.26	1.02	.64	.43

It is instantly obvious that the largest size shot is most potent in energy effect when muzzle velocity and range are identical, and is the best shot size to use if mere brute force was used to make the kills. But the shotgunner who thinks thus is a rifle shooter at heart, since shotguns always were intended to kill their game with patterns of multiple hits.

Regardless of shot size, a tremendous percentage of the load doesn't strike the target and is completely wasted. Thus, the total energy in a load is not an important consideration. This shortcoming has two compensating factors, however. First, covering up gun-pointing errors so even poor shots can put down some game; second, avoiding the needless shot-riddling of edible game, which is occasionally the case when a large share of the load lands on target.

Finally, if we combine the two tables, we have the makings of some mathematical proof of the superior efficiency of small-size shot loads. Let's confine our screening to only two shot sizes: the 6's, with which I

cut my eye-teeth on crows, and the 9's, which I regularly use nowadays. They'll give us close to minimum-maximum answers.

To begin, we can multiply the 225 pellets in a one ounce No. 6 load by the 2.22 foot/pounds of energy of each pellet at 40 yards. That gives us a gross energy figure of 499.5 foot/pounds. Correspondingly, the 585 No. 9 pellets, multiplied by .64, give us 373.4 foot/pounds of energy.

Of course, these gross energy figures are, as previously mentioned, subject to fantastic deductions; many pellets are so deformed that they fly far out of the line of aim, and even more spray all around the target without touching it. The important net energy figures are those which actually land on target.

If we accept that No. 10's provide the 100 per cent efficiency that I awarded them, that means that No. 6's are only 25.86 per cent as efficient, while No. 9's are rated at 67.23 per cent. These are my own arbitrary suppositions, but we must have some starting point.

If we next multiply the gross load energy of the two shot sizes by their respective efficiency percentages—499.5 by 25.86 for 6's, and 373.4 by 67.23 for 9's—we get an energy-efficiency factor of 129.07 for 6's and 251.07 for 9's. According to my personal experience these are in the right proportions, giving 9's very close to a 2-to-1 hits-on-target advantage. (Continued on page 46)

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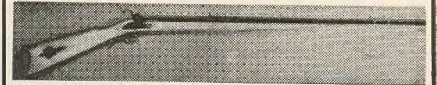
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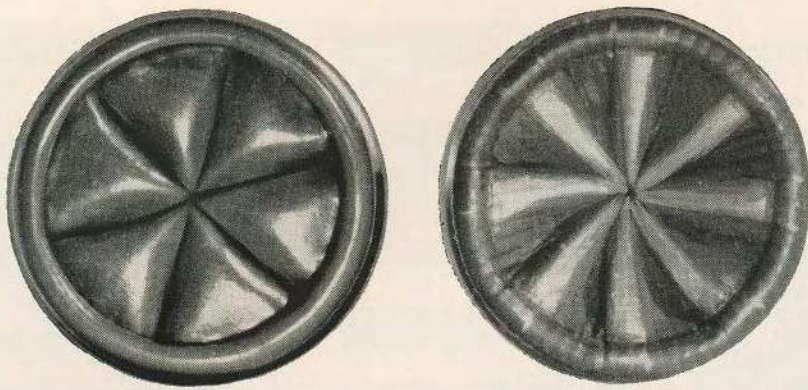
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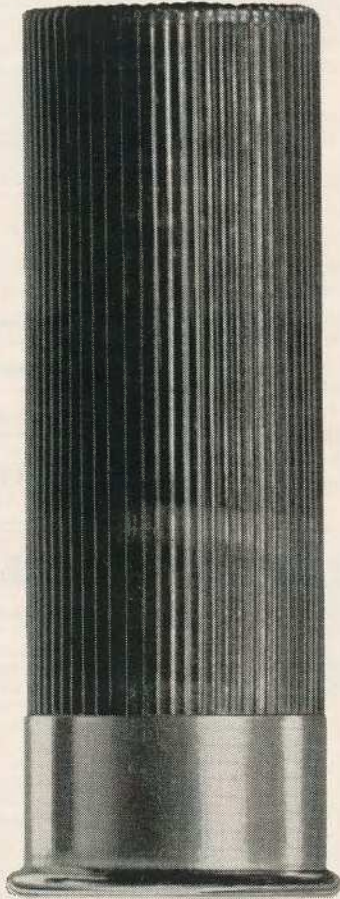


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Let me point out that both loads will kill crows very nicely up to 40 yards. Misses, not chargeable to sloppy marksmanship, are most apt to occur because of "holes" in the thinner No. 6 patterns. Projecting this further, we find that at ranges beyond 40 yards such holes appear much more frequently, and are much more prevalent when 6's are used. Meanwhile, the 9's, while offering virtually crow-proof pattern densities up to 40 yards, continue that superior density well beyond that range.

Now, let's examine another mathematical premise. How many pellets does it take to kill a crow, shot after shot, at 40 yards? I don't know, nor do I know anyone who can tell me with absolute certainty. Since a crow offers a small, scrawny, and fragile mass of vitals, we could arbitrarily select five pellets of No. 6 shot as completely adequate for clean kills and use this number as a springboard.

From this point we can go in any one of three directions: first comparing the per ounce pellet count of both shot sizes in our first table and working up from there; second, projecting the percentage proportions of the second table; or, we can compare the energy-efficiency factors developed a few paragraphs earlier.

In the first option, we find that there are 2.58 times as many No. 9's as 6's in a one ounce load. Thus, taking five No. 6 pellets as being adequate for clean kills, we'd be hitting our crows with an average of 12.9 No. 9's.

If we elect option two, we come up with a factor of 3.78. Multiplying this by the five No. 6 pellets gives us 18.9 pellets of No. 9's that would result from the denser patterning of the latter size.

Finally, if we take the third option, since there is a ratio of 1-to-1.94 in the energy-efficiency factors, we find that we'd get an average of 9.7 No. 9's to match against the five No. 6's.

Whichever way you cut it, the answer proves the superiority of No. 9 shot. Even if we add up the total energy packed by the comparative hits in the third option, we arrive at a most unhealthy situation for crows. Five No. 6's deliver a maximum of 11.10 foot/pounds of energy, as compared to 6.27 foot/pounds produced by the 9.8 No. 9's. At first glance this might seem to be the first breakdown of this story. But, read on.



Contrary to popular supposition, the killing effect of shot isn't solely due to the energy



in the pellets that land on target, or how deeply they penetrate, or a combination of the two. Instead, their major effect is proportioned to the number of hits and, to a truly remarkable degree, the energy that rides with them is of only ordinary significance. The number of hits is thus the truly functional factor and measure of a pattern's effectiveness on all live targets.

There are exceptions, of course, but an overwhelming majority of them can accurately be labeled as "accidents." Usually, such accidents are the result of novice gunners using large sizes of shot, where only a pellet or two luckily registers, or at extreme ranges where the pattern thins out to produce the same result. I've seen several pheasants, flying strongly away from wild cannonading behind them, proceed for 200 to 400 yards, then suddenly wilt and fall. In some cases, I found they'd been shot through the lungs with only a pellet or two.

Some ten years ago I first wrote about this little-known fact of the pyramiding effect of multiple pellet hits in my book "Calling All Varmints," as follows:

"Shot weight merely gives it greater penetration potential, but delivers very little more shock than a smaller pellet. The myriad shocks of a lot of small pellets thus are much more deadly than a random few hits by pellets of larger diameter. The possibility of continuing that shock over the entire effective range of individual shotshell loads is much greater with fine-shot loads, simply because the pattern is dense.

"The deeper penetration of the larger pellets is important, of course; but not all-important. If the target is within effective range the cumulative shock of multiple hits far outweighs the deeper penetration of far fewer hits by larger spheres of shot."

No scientific tests have been made to determine the comparative proportions of shock transmitted by sundry sizes of pellets, so I can't quote figures on it. However, the general understanding is that if one shot size is considered at one time, its nerve-shock, per pellet, can be represented by the algebraic symbol  $x$ . But, as hits pile up on the same target, the shock factor mounts amazingly.

The examination of a lot of birds, crows especially, leads us to believe that this shock factor climbs in effectiveness as the square of the number of hits on target! Thus, if one shot pellet delivers  $x$  of shock, two hits then deliver  $4x$ , three yield  $9x$ , four produce  $16x$ , and so on.

Such shock is increased as the size of the shot is increased. Thus, the per pellet  $x$  factor of No. 9's is less than that of 6's; but how much greater I don't know, nor have I ever found anyone able to tell me. Someday, someone may be able to get this down in simple mathematical form that every shot-gunner can understand.

We'll then be able to select shot sizes on the basis of which are most deadly on a given species. When that day comes, even the novice will be able to give more acute attention to his swing and pull, instead of subconsciously wondering if he has been "missing" because of an impractical choice of shotshell loads.

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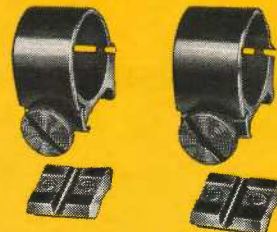
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## MODIFIED M-14

(Continued from page 27)

Front and rear handgrips for more positive control of weapon.

The compensator is a metal sleeve with a series of gas escape vents. It slips over the flash suppressor and locks onto the bayonet stud. When gas escapes through four small vents at twelve, three, and six o'clock, a slight forward pulling force is exerted, thus reducing recoil. Eight larger vents at ten o'clock allow more gas to escape to the left, thus forcing the muzzle a bit to the right. This compensates for the natural tendency of the M14(M) in the hands of a right-handed marksman to shoot high and left. Unfortunately the compensator does not correct the tendency of the left-handed shooter to disperse high and to the right.

The compensator has another minor disadvantage. It does not suppress the muzzle flash. When firing at night, someone in command has to decide which is more desirable, a slightly more accurate fire or reduced muzzle flash. But don't forget, the straightened stock and the handgrips have already cut down dispersion considerably.

The straight-line stock guides the recoil directly to the rear where the rubber pad further softens the blow. This modification also reduces vertical muzzle displacement; with the old M14(M), recoil traveled down through the small of the stock, forcing the muzzle upwards.

The front and rear handgrips enable the shooter to give the M14E2 even greater solidity than the BAR's greater weight and lower cyclic rate provided. The front handgrip can be adjusted to one of four positions to suit the length of the firer's arms. The Infantry Board claims that when this handgrip is pulled to the rear, the total ground pressure of the bipod legs is increased from 7 to about 31 pounds.

Made of aluminum with a plastic coating,

the front grip can be locked in the "up" position against the stock for slinging the weapon. The rear grip is a part of the stock.

The M14E2 had undergone a series of tests, culminating early this year with comparison tests fired at Fort Jackson, S.C. The first comparative trial on a 25 meter range showed the M14E2 could fire a much tighter shot group than the M14(M). Then 200 rounds were fired into the side of a hill 200 meters away. The beaten zone of the "E2" was much smaller than that of the M14(M).

The next test was a comparison shoot fired with each weapon by an expert rifleman and a "bolo." At 25 meters the expert, firing in two and three round bursts, got a dispersion of about 12 inches with the M14(M) and only about four inches with the M14E2. The "bolo" fired a 32 inch dispersion with the M14(M), a five inch dispersion with the M14E2. In other words, the E2 fires a tighter pattern, even in the hands of a poor marksman. All of the shooters agreed that the newer version is easier and more comfortable to fire.

Officials say the M14E2 almost never malfunctions. It has the major advantage over the old BAR in that it can be fired semi-automatically, making it particularly satisfactory as a squad weapon. In summary, the M14E2 is lighter, fires the standard NATO round, is more reliable, and provides the same basic mechanism as used in both the rifle and the automatic rifle for the squad, thereby reducing training and maintenance problems.

Some 8,350 modifications kits containing the new parts are now being manufactured. According to Army sources distribution to field units is expected to begin by mid-summer. Maybe these modification kits will help to restore the M14 to the good graces of the troops.

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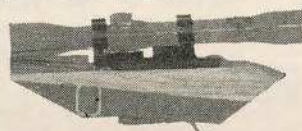
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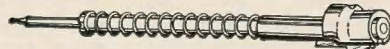


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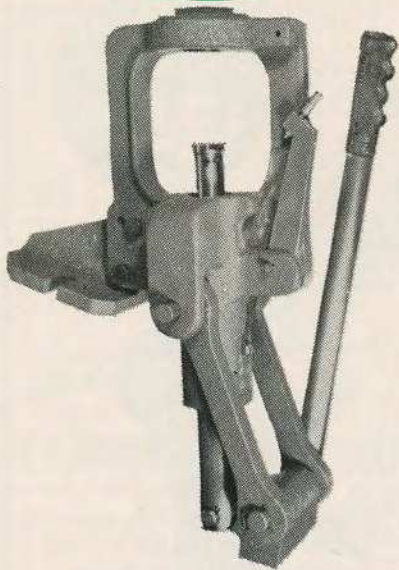
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## A COLT DISCOVERY!

(Continued from page 23)

in my mind that the cylinder is original.

The gun is *not* a conversion. Since I don't have a better name for it, I have called it the 1871-72 Pocket Model since it bears striking similarities to the 1871-72 Colt Open-Top Model, .44 Henry Flat caliber with the Navy size grips. Both pistols have the rear sight on the back of the barrel; on the .44 the rear sight is an integral part of the barrel, while on the .38 CF Pocket Model, the sight is dove-tailed into the barrel. Both guns have the Mason-type ejector housing and ejector. The loading gates are similar in both guns, and both pistols have outside springs.

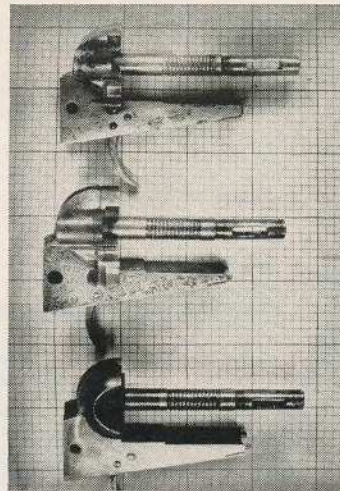
A number of Colt collectors and I agree that this gun was probably made up as an entirely new model for exploitation in England, but the introduction of the 1873 Peace-maker Single Action probably precluded further plans for this gun. Some ten years ago, Dexter listed a gun which strongly resembled my specimen, and that gun had the serial number 3. It therefore seems likely that there are at least two other specimens around, but where they might be at the present appears to be a mystery.

I base my assumption of special production for England on several facts. The gun is silver plated throughout, has ebony grips, carries no patent dates on the frame, has a British proof mark on the barrel lug and on each chamber of the cylinder.

The cartridge that seems to chamber best is the .38 C.F. straight-sided cartridge, such as was used in the .38 Colt Lightning rifle. The 4-1/3" long, round barrel is marked with "Address Col. Saml. Colt—New York."

The barrel extension between the lug and the cylinder is longer than normal to take up the space permitting the use of the shortened cylinder.

It seems likely that the frame blank was the same that was used for the New Model Police Pistol. In milling out the hammer slot,



Comparison of the frames of (top to bottom): 1871-72; conversion of the New Model Police; standard percussion version of Colt's NM Police.

about 1/8" of metal was left at the face of the recoil shield in the same manner as was

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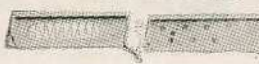
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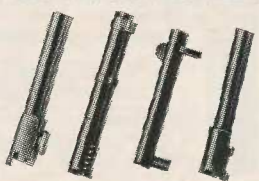
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done on the Schneberger pistol. A tapered hole was bored through the recoil shield for the firing pin, and the recoil shield was milled out for the loading gate. Note that no plate was added to the recoil shield to make up for the metal removed from the cylinder, a job that was usually done on conversions.

The cylinder was a blank that was originally destined for the New Model Police Pistol. It was rebated but not bored for the percussion nipples. Since no metal was removed from the rear of the cylinder, it was not necessary to build-up the recoil shield on the frame. Careful examination showed that about 3/32" of metal was removed from the front of the cylinder to shorten it for the .38 cartridge.

The hammer is a considerably smaller version of the 1873 Single Action hammer, and is apparently found only in this model. The firing pin is tapered and is identical to that used in the Single Action.

After a prolonged study of the gun, I have come to the conclusion that this was to be a separate model which was to have its own set of serial numbers. Circumstances of an unknown type must have prevailed Colt to discontinue efforts in this direction, but the gun shows once again the adaptability of Colt to meet local demand. It is virtually impossible to place a price tag on this gun, but I would be interested in hearing about other specimens of this model. Do you happen to know where number 2 or number 3 is hidden away? Perhaps they are gathering rust and dust in some old store where passers-by glance at them and walk on saying "Just some old guns!"



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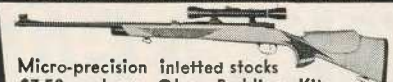


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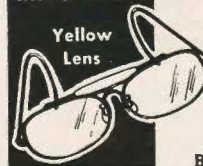
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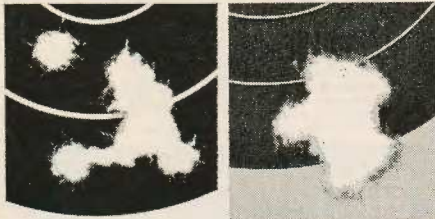
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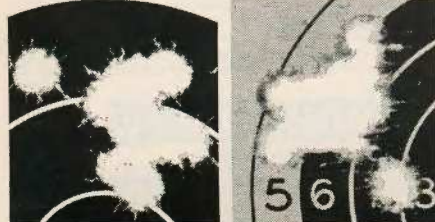
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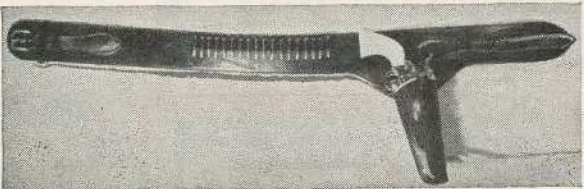


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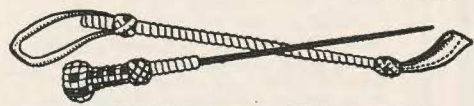
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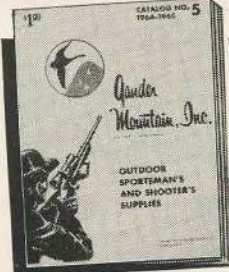
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## M-1 CARBINE MANUAL

(Normount Armament Co., Forest Grove, Ore., 1964. Introductory offer \$2.98, later \$3.98)

Based on the Army Field manuals covering the carbines cal. .30, this is a vastly improved version of the military volumes with improved material and photographs. With the increased interest in the carbine, this book is a very definite contribution to the now available how-to of the U.S. carbine and it is the most comprehensive source material that I know of for the carbine.—R.A.S.

## THE ARMS COLLECTION OF COLONEL COLT

By R. L. Wilson

(Herb Glass, Bullville, N.Y., 1964. \$6.50)

This catalogues the entire personal firearms collection of Col. Colt—the first time this material has been photographed and described. In addition to this important material, the book also contains a great deal of information about Colt's personal life as well as some newly unearthed technical information. A book of this magnitude, though slim in physical appearance, is an important event in the field of firearms publication and as such, you should not miss getting your copy.—R.A.S.

## THE WORLD'S SUBMACHINE GUNS

By Thomas B. Nelson

(International Small Arms Publishers, Cologne, Germany, 1963. Distributed in the U.S. by T.B.N. Enterprises, Box 55C, Alexandria, Va. \$15.50)

Thomas B. Nelson is a recognized ordnance authority, and this book reflects his most comprehensive knowledge of the world's submachine guns or machine pistols. Here are means of identification, a brief history and description of each gun, its functions, ballistics, and all other pertinent information that could be gathered. A worthwhile bonus is the dictionary in 20 languages that lists hundreds of ordnance words and terms, thus shedding light on some often used, but little



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understood terms. This is a highly technical reference work for the ordnance student, for gun designers, and law enforcement officials. As such, it should prove invaluable for those concerned with submachine guns.—R.A.S.

**AN IDENTIFICATION KEY TO THE PRINCIPAL VARIATIONS OF THE LUGER PISTOL**

By M. B. Mittleman

(M. B. Mittleman, P.O. Box 266G, Saugatuck Sta., Westport, Conn., 1964. \$2.00)

This scientifically developed key to the Luger pistols is of importance to the ever-increasing number of Luger collectors. This is not an illustrated book, but the author does show 28 of the most frequently found marks, and with the help of the key, it is a simple matter to determine just where that Luger you just acquired came from. A fairly close scrutiny of this slim volume revealed a delightful surprise—the volume appears to be free of errors or misleading statements, and though a Luger collector himself, the author makes no claim to infallibility. A worthwhile book in any-one's library, especially the pistol collector's. A must for the Luger buff.—R.A.S.

**GUNSMITHING**

By Roy F. Dunlap

(The Stackpole Co., Harrisburg, Pa., 1964. \$10.00)

The name Roy Dunlap is so closely associated with fine gunsmithing and the earlier edition of this book is so well known, that a review might seem superfluous. This new edition has, first of all, a comprehensive index, a feature that was lacking in the first edition. Add to this Roy's chapter on synthetic bedding of rifles, and the new cartridge data chapter, and you have a volume that will be a constant source of information for many years to come. You cannot afford not to have this book if you are a gun tinkerer, and who among us is not one of the clan?—R.A.S.

**AL SIEBER—CHIEF OF SCOUTS**

By Dan L. Thrapp

(University of Oklahoma Press, Norman, Okla., 1964. \$6.95)

Al Sieber was a rugged frontiersman who became "Chief of Scouts" for General George Crook in his fight to subdue the Apaches. He took part in more Indian fights than Daniel Boone, Jim Bridger, and Kit Carson  
(Continued on page 62)

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## MECHANIZED GUN TINKERING

(Continued from page 29)

a few thousandths clearance to compensate for slight dimensional variations that show up in receiver, bolt, and barrel chamber centers. Grinding a bolt face to a minimum may cause a cartridge rim to bind when the bolt is closed, making an accurate headspace reading impossible. Gunsmiths not yet familiar with cartridge rim clearance in a bolt shroud, should carefully check dimensions on properly functioning belted magnum rifles, and work with caution.

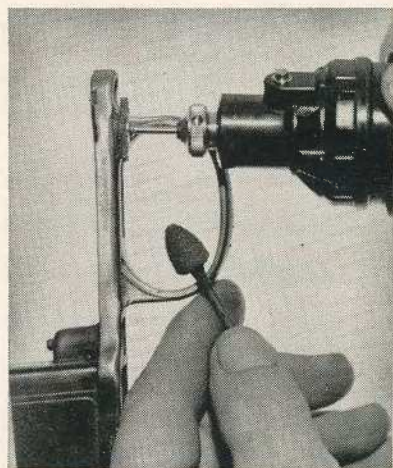
When bolt face has been opened correctly on such guns as Springfields, FN and 98 Mausers, 1917 Enfields, or others being converted to belted magnums, there still remains the job of grinding back the extractor. This is simple if grinding and fitting is done slowly by trial and error. Even at worst, a new extractor can be purchased, and you can hope for better luck next time! Extractors are key factors in the proper feeding of the new kingsize cartridges. Radius of extractor lip should conform to cartridge rim and the gripping edge should *not* be razor sharp. Bottoms of extractor grooves have a small "flat," and extractors should be ground with a narrow flat on face of lip to match.

The same  $\frac{3}{8}$ "x $\frac{1}{2}$ " grinding stone used to open bolt face usually works well to grind back extractor. You should attach the extractor to the bolt frequently, and push a cartridge up under it into bolt face. Noticeable tension should remain; enough tension to hold a loaded cartridge into bolt face is about right. More tension serves no useful purpose and hampers smooth feeding out of magazine. The altered extractor should always be smoothed with finely gritted felt bob chucked in the Moto-Tool.

Very few .30-06 magazine and receiver rail dimensions will feed magnum ammo. Here "motorized gunsmithing" is the only practical answer. There just isn't any other way to grind out hardened rails accurately. The magnum cartridge in the photograph (page 28) is bearing snugly against both left and right rails. In this action, the first job is to grind out just enough on both rails to allow the cartridge to go forward into chamber at its natural feeding angle. All

grinding should be on a slow, trial and error basis. This widening should never be overdone to the extent that the front end of magazine follower can come up out of the rails. Remember, action rails have overhanging lips on top side, and for the most part, these must be kept. If the lips are removed, ammunition will jump out of the magazine. Rail widening should be carried through to main rail body below these lips proportionately. Many .30-06 actions have humps, or a narrowing of rail sides under lips, just forward of where the .30-06 cartridge shoulders stop; these must be ground out far enough forward to accommodate the longer body of magnum cartridges.

Altering actions to feed is like learning to swim. We could talk endlessly, but you'll have to get into the water and paddle in



The wire brush and felt bob are handy for reaching into corners.

order to learn. It becomes easier with practice, and caution and common sense are essentials. I use the  $\frac{3}{8}$ "x $\frac{1}{2}$ ",  $\frac{1}{8}$ "x $\frac{1}{2}$ ", and  $\frac{3}{16}$ "x $\frac{1}{2}$ " stones for most action altering, but there are no set rules, and the mechanically inclined workman will have no difficulty choosing the size and shapes of

(Continued on page 60)



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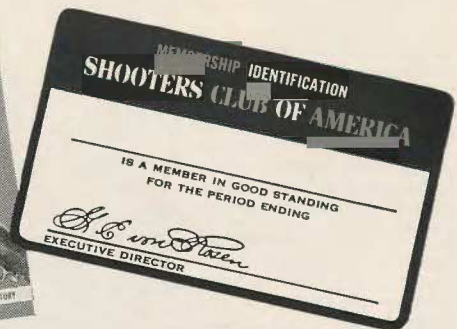
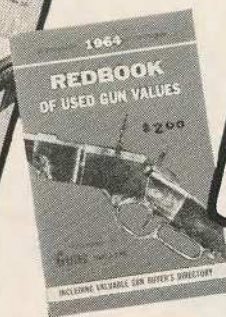
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**G-9**



(Continued from page 58)

grinding points to use on various jobs.

Scraping, cutting, and worrying out that last little fleck of walnut to get a good fit of stock to barreled action has always been pretty much reserved for hand tools. The biggest power tool hazard was the possibility of a runaway gouge that would all but wreck days of careful work. However, with tools as small, fast, compact and powerful as the No. 3 Dremel Moto-Tool, a reasonable amount of practice can result in as much as 75 per cent of inletting being done with rotary files in an electric grinder.

Moto-Tool's 27,000 r.p.m. reduces bit-grabbing to a minimum, and the entire unit actually isn't much larger than the handles of some large stocking chisels I've seen. With practice, this equipment can be controlled with amazing pin-point accuracy. Remember, many gunsmiths are now using power checkering tools, and doing high class work with them.

When you include various phases of engraving, shaping small parts, routing, and sanding, gunsmithing uses of the Moto-Tool and its accessories are almost endless—and new ones crop up continuously. Some additional uses include:

1. Opening stock inletting for custom triggers (rotary file)
2. Grinding out broken taps and drills, stuck in holes ( $\frac{1}{8}$ " x  $\frac{1}{2}$ " stone)
3. Grinding extended slots in actions for triggers
4. Shaping scope blocks to fit receivers
5. Cutting off hardened sight mounting screws inside actions
6. Grinding down front sight blades for zeroing
7. Shortening triggers, or any other small parts
8. Cutting through military sight bands, for removal
9. Polishing inside of sizing dies, rough actions, etc., and assorted hard-to-reach places, in preparation for bluing
10. Sectioning cartridge cases.
11. Opening diameter of barrel and sight bands for fitting
12. Drilling small holes, to  $\frac{1}{8}$ " maximum

It is extremely difficult to categorize the numerous Moto-Tool accessories into professional and amateur uses. The professional, amateur and once-a-month hobbyist may well use identical equipment for entirely different jobs and with varying degrees of skill. Plain grinding stones, such as those described for altering actions for magnum cartridge feeding, are very basic, and are probably frequently used by amateurs—but they become professional tools when successful action altering and bolt face opening is done. The No. 409 cutting discs are simple gadgets when cutting off a pin or spring, but become professional tools when doing a trigger sear job.

This mechanization trend isn't taking the last vestige of handwork away from American gunsmiths and hobbyists, but is providing the challenge to master a multitude of fast-working hand tools that will teach them to become adept in shape and size selections, increase speed, accomplishment, accuracy, and enjoyment. Once you become familiar with the Moto-Tool, it becomes as indispensable as the family car or a favorite hunting rifle.





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**GRINDS:** Trigger sears; aluminum fittings; case-hardened gun lock parts; brass pistol fittings; sight blades; rifle bolts and cams; receiver wells and throats; magazines; feeding ramps; chamber mouths; scope blocks; bolt faces for belted cases; barrel bands; extractors for Magnum cartridges; bolt handles; screw heads, rivet pins, broken taps; cutting tool edges.

**ENGRAVES:** Name plates; gun barrel designs; silver inlays; trigger parts; hammer cut-offs; pistol clips; powder horns; antique gun scrollwork; inletted areas; trophies.

**CUTS:** Small wood and metal inlays; spring stock; small clearances; accessory trigger slots; receiver notches for altered bolt handles; cartridge case sections; new screwhead slots.

**POLISHES:** Trigger guards and sears; bolt faces and cams; shotgun ribs; rifle actions; revolver cylinder chambers; primer pockets;

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magazines; receivers; barrel throats; gun sights; spring muzzle; safeties; lockwork; floorplates; resizing dies; rough tool marks; rusted parts.

**SHAPES:** Gun stocks; small metal parts; fore ends; inlays; pistol grips; embossed lock parts; replacement parts for antique arms.

**ROUTS:** Slots for stock accessories; grooves for side locks; bolt handle recesses; fore ends; barrel channels; stock inlays; new trigger clearances; undercuts for glass bedding in stock.

**DRILLS:** Vent holes in reloading dies; spring holes in cylinder hands; screw holes in stocks and grips; tap and rivet holes; obstructed hole clearance.

**DEBURS:** Welds; burrs on trigger sears and hammers; rough-edged hand filed parts; drilled holes; rough bolts and slides; firing pins; ejector and extractor slots; new replacement parts.

**SANDS:** Gun stocks and grips; inside small openings; flutes on revolving cylinders; barrel channels; lifters; slots and recesses for close-fitting stock parts.

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# THE INDESTRUCTIBLE DEER

(Continued from page 25)

partner of Clinton G. Hammond in the Realistic Target business, tells me that the most successful installations have been the commercial ones—those which were set up by someone as a business. With the proper location, they offer an attractive business possibility.

Operation of the deer is a one-man operation, and Realistic Target can put the deer on coin slot operation, giving the shooter a specified time to get in his shots. In addition to a deer, the company also makes



small varmints. You can get rabbits, foxes, woodchucks, or crows. For police training, a Realistic Thug is made.

The varmints, at the drop of a coin, start popping up at various ranges. Hit one, and down it goes as another suddenly appears. With a specified time for shooting the course from short to long range, it is a varmint shooter's delight.

The Realistic Targets can be shot by bow and arrow as well as with bullets. As a matter of fact, most of the present installations are limited to bow and arrow, since locating a range site for high powered rifle or even .22 shooting is far more difficult than making a safe bow range.

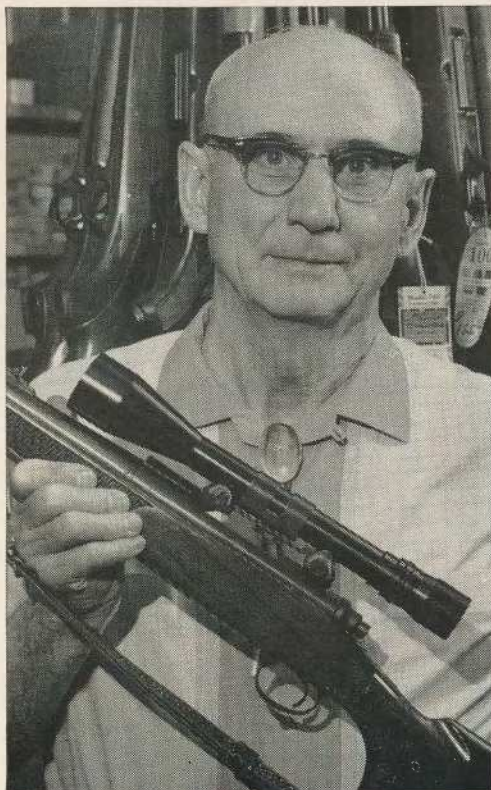
Getting into business with a Realistic Deer Target installation requires an investment of about \$5,000 in addition to what might be required for the necessary land. The electronically controlled varmint set-up costs about \$350, complete with a rabbit, fox, crow and woodchuck in the act. Replacement of the animal forms varies from \$2.50 to \$7.50, but considering their tenacity, this should be a minor cost of operation.

The first indestructible deer was installed at Lyman's Blue Trail Rifle Range. It was an instant hit, and shooters like the set-up so well that you have to get there real early in the morning in order to get a chance at that bouncing buck. Other installations are being opened as fast as possible, and if they find the same enthusiastic reception the Lyman layout received and the new one in my neck of the woods, we may yet turn into a generation of crack snapshooters. Maybe some of those one shot kills we read about will become reality when hunters can get this kind of realistic practice.

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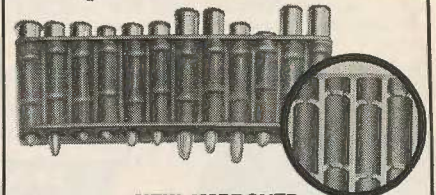
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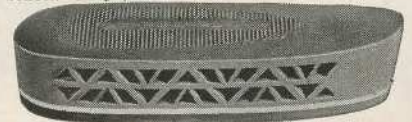
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(Continued from page 57)

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(Continued from page 19)

the only part your trigger finger contacts when firing the gun. The set trigger can be adjusted to a very light pull, and European



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Gösta Pihl, of Stockholm. Gösta has fired on many International teams for Sweden, and we first met in Buenos Aires at the World's Shooting Championship of 1949. During my visit he showed me a new dial gauge which he had made up to weigh free pistol triggers. This gauge was shown on the cover of the July 1963 issue of GUNS Magazine and I managed to talk him out of it. He also owns an Anschutz pistol; although you can find these guns in Europe once in a while, in good condition they are never for sale.

About 20 years ago I bought one of these guns from Al Hemming, former National Pistol Champion. He and Harry Reeves shot some wonderful targets with this gun. Reeves shot one practice score of 575 x 600, which is the highest free pistol score that I have ever heard of. Considering that this gun was designed and built prior to 1940, it is surprising how many of its features were of an advanced nature; the extension rear sight with large click adjusting knobs, interchangeable front sights, large adjustable grips, and the finest workmanship set off by fine engraving and wood carving. The free pistol is a utilitarian precision instrument, and although beauty does not improve scores, it certainly is a pleasure to fire good scores with a handsome gun.

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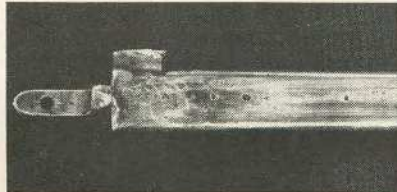
**PACHMAYR Gun Works, Inc., Dept. G-9**  
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**THE SUHL ENFIELD**

(Continued from page 31)

service between the middle of 1862 and the  
end of the war remains to be seen. It must  
be remembered that the Enfield was the best  
arm the Union had during the first two years  
of the war and it remained very popular  
throughout the war.

There are bound to be a few of these  
unidentified Suhl products in collections. It  
would be interesting if collectors who have  
strangely marked Enfields, would take the  
piece apart and look for the "Suhl" marking  
underneath the barrel. Those collectors who



Suhl on barrel proves the origin.

have a specimen with the "V.C.S." lock-  
plate, or the distinctive "S" on the sight or  
other parts undoubtedly have a Suhl product.

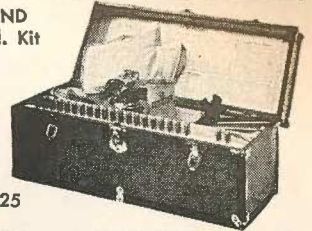
Since the serial number of this specimen is  
482, it is conceivable that this rifle was in  
the first batch of 550 that were purchased  
from Schuyler, Hartley and Graham on May  
26, 1862.

It has taken a long time to straighten out  
the Suhl Enfield mystery, but we now have  
one more bit of information in our knowledge  
of historic arms.

The assistance and cooperation of R. H. Ahlstrom of  
Painesville, Ohio, is gratefully acknowledged. With-  
out his cooperation, this research would have been  
impossible. Photographs by George  
Rolfe, Wickliffe, Ohio.

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(Continued from page 15)

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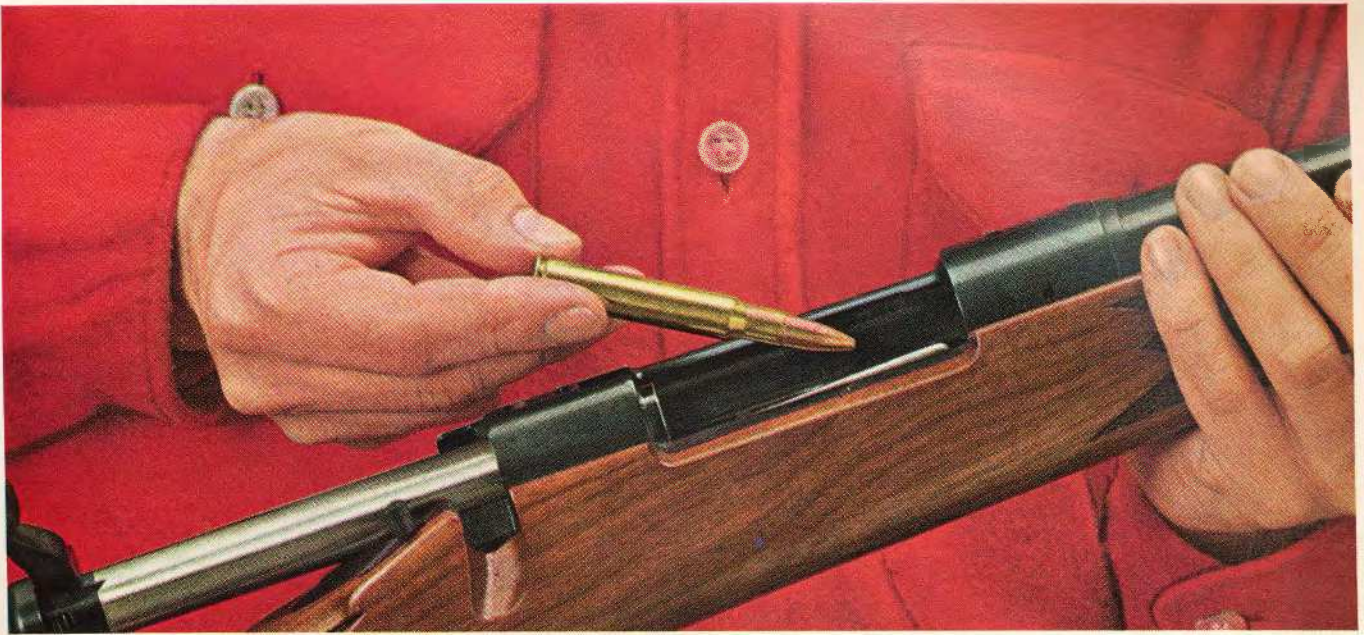
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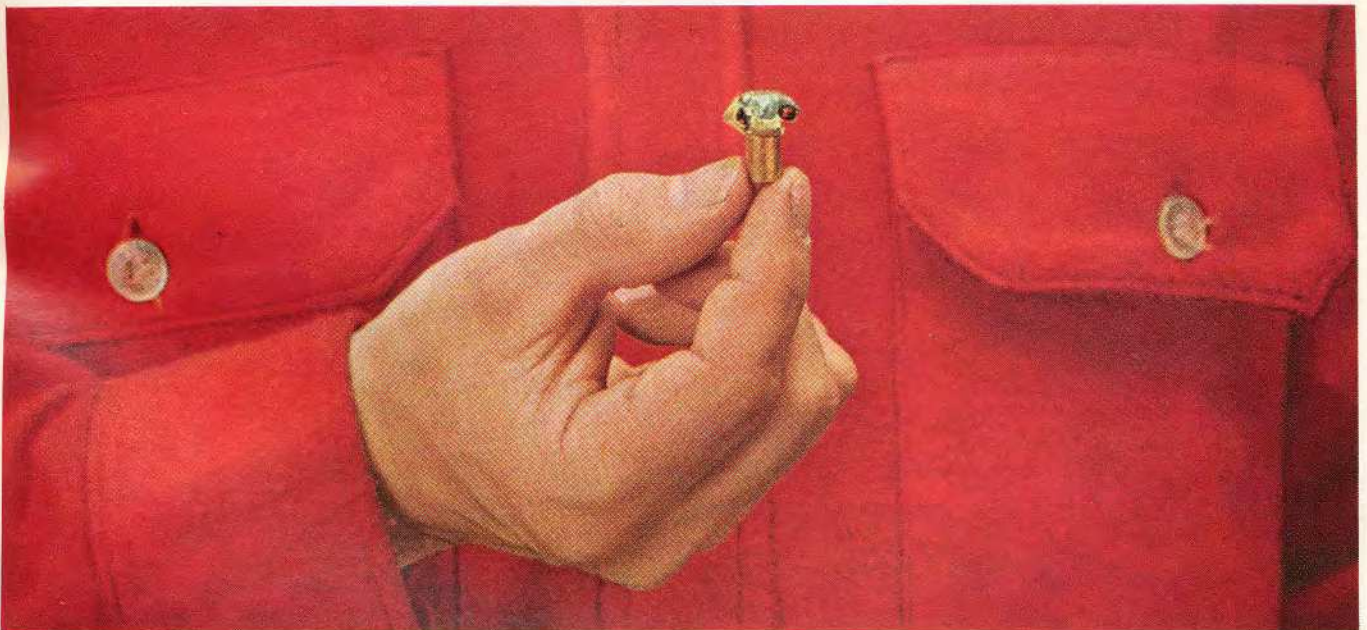
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