Finest in the Firearms Field

REBUTTAL:

Industry HAS

**Betrayed Us!** 

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RIFLE

(Details Inside)

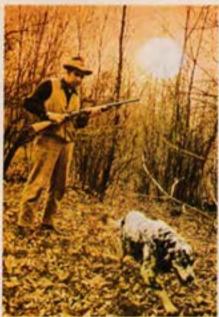
**EXCERP1** From the 1970 GUN DIGEST

"AMERICAN REVOLVER SAFETIES"

**RETURN of the AUTO-BURGLAR GUN** 

# LET'S UNCOMPLICATE

Picking the right gun, shell and shot size to improve your field shooting is no problem if you follow this simple Remington-Peters guide.



Find yourself a bit confused by the array of shotguns and shells available for upland game hunting?

You're in good company.

Even veteran field shooters aren't always 100 percent sure of the best choice. And complicated charts and tables don't seem to help much.

Which is a shame. Because the basics of matching gun and load to the game are really quite simple. If you follow them, you can't go very wrong... even making allowances for personal opinions.

Let's start uncomplicating things.

Choosing the right gun.

The first and most important decision you have to make is what kind of game you'll generally be shooting. A gun that will help your shooting should have the action, barrel choke and barrel length that match up with the kind of game you have in mind.

What about actions? Books

have been written extolling the relative advantages of automatics, pump guns and the traditional doubles. Everybody has a right to his opinion. But Remington believes that the two actions that best fit the modern shooter's needs are the automatic and the pump. Apparently the majority of shooters agree because these are far and away the most popular actions.

The Remington Model 1100 Automatic is the shotgun that just a few years ago changed the underlying attitude of American shooters toward automatics. Before the 1100, there was always a question regarding the durability and reliability of automatic actions. Early automatic designs also seemed to be on the clumsy side. The Model 1100 is a sleek beauty that has demonstrated its reliability both in the field and with trap and skeet shooters who fire thousands of rounds a year.

A special advantage of our gas-operated action is that it reduces recoil. There's more of a push than a "kick". The Remington 1100 is extremely pleasant to shoot. Which makes it a top choice if you figure on letting your wife, daughter or other females do some shooting. The Model 1100 with ventilated rib, illustrated here, is priced at \$189.95\*. Other styles start as low as

\$164.95\*.

The "Wingmaster" Model 870 is the pump action of the Remington line. The "Wingmaster" has two action bars, a Remington first, which prevent the twisting and binding found in less carefully engineered, single-bar pump actions. Seasoned shooters claim that this action is so smooth that they can equal the speed of most automatics. Could be. This pump gun is fantastically fast. The Model 870 with ventilated rib (illustrated) sells for \$134.95\*. Other styles as low as \$109.95\*.

"Wingmaster" Model 870 Pump

is worthwhile when another bird unexpectedly comes up out of nowhere after you've already fired.

These Remingtons are available in 12, 16, 20, 28 and 410 gauges. However, there are three gauges of special interest to the

upland shooter. The 12 gauge is practically standard and can be used for every upland game bird or animal. If you prefer a lighter, faster-swinging gun, you'll probably find a 20 gauge adequate for everything except turkey. The 28 gauge is a sporty gun, but it is best used on the smaller birds likely to be shot at close range—such as woodcock and quail. Specific gauge recommendations are given on the opposite page.

What about choke and barrel length?

The chances are that you know exactly what choke is. However, for the benefit of new shooters who might not know, we had better explain.

When we say a shotgun barrel is "choked", it means that the inside of the barrel (or bore) is made a few thou-

sandths of an inch smaller near the muzzle. The effect is to reduce the spread of the shot and gain extra effective range—much like putting a nozzle on a water hose. Tightly choked barrels are best for long shots on tough birds. More open chokes are recommended for closer-cover shooting and smaller birds. Remington barrels are made with full, modified and im-

Both the 870 and the 1100 have two obvious advantages over conventional double-barreled guns. A single sighting plane and a magazine holding several shells. This last advantage proved cylinder chokes which cover all upland game shooting requirements.

Now we have a nice surprise for you. You don't have to buy a closetful of guns to get an assortment of chokes.

Model 1100 Automatic

# UPLAND HUNTING.

Remington offers interchangeable barrefs that you can switch in a minute without tools or gunsmithing. A big saving in cash. And shooting the same gun them to go.

Remington and Peters shells all have plastic bodies, too. They won't scuff, swell or split. If you reload, they'll

> give as many good reloads as any shell you can buy.



#### Matching gun and shell to the game.

Here are recommendations based on what experienced hunters tell us is the best combination of barrel choke, shot size and amount of powder. Naturally, personal preferences vary a bit.

However, we assure you that game brought down with No. 8 shot won't count less because Remington recommended No. 9's.

PHEASANT. Improved cylinder choke for close-cover shooting. Modified or full for long cornfield shots. When long shots are expected, we recommend 12 gauge Remington Express with No. 5 shot or Peters High Velocity No. 5's. On a normal rise over dogs, and for all-around use, No. 6 shot is a favorite.

GROUSE. Improved cylinder or modified choke for hunt-ing in heavy brush. Full choke for open shooting. 12 gauge

guns are the big favorite, but you see quite a few 20 gauge guns.

On smaller birds such as ruffed grouse or Hungarian partridge, use smaller shot-1% ounces of No. 7½ or No. 8 with 3% drams of powder as loaded by Remington is a good allaround load. For big western grouse (sage, sooty and blue) a heavier load with bigger shot such as Peters High Velocity with No. 5 or No. 6 shot is needed.

WOODCOCK. Improved cylinder or "skeet" choked barrels and smaller bores are recommended...20 or 28 gauge. Small shot—No. 8 or No. 9—in Remington "Shur Shot" or Peters "Victor" shells are excellent. For 12 gauge guns we suggest either Remington or Peters shells loaded with 1½ ounces of No. 8 shot and 3 drams of powder.

TURKEY. Stick to full-choke barrel in 12 gauge. Choice of shot depends on expected range-bigger for long distances, smaller for close shots. Remington or Peters shells (standard or magnum) with BB, 2, 4, 5 or 6 should

bring you a turkey dinner. QUAIL (BOBWHITE). Improved cylinder and modified chokes preferred. 12 gauge favored, but there's quite a trend toward the sportier 20, 28 and 410 gauge guns. For early-season shooting, when feathers are light, some hunters use No. 9 shot. Later, they switch to No. 7½ or No. 8. A good 12 gauge load is the Remington shell with 3 drams of powder behind 11/4 ounces of No. 8 shot. DOVE. Modified choke is preferred by most dove shooters. At normal ranges you'll do well with the lighter loads and either No. 71/2 or No. 8 shot. For longer

ranges use Remington "Express" or Peters "High Velocity" loaded with No. 6 or No. 71/2 shot.

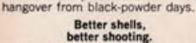
RABBITS. There are as many choke, gauge and load combinations for rabbits as there are rabbits. For

snowshoes and larger jacks we recommend Remington "Express" or Peters "High Velocity" in 12 gauge with No. 5 shot in

a, full or modified choke barrel. For cottontails at normal ranges, lighter loads like Remington "Shur Shot" or Peters "Victor" are preferred. No. 6 or No. 71/2 shot in an improved cylinder or

modified-choke barrel does well.

This should cover the essentials. However, if you want more detailed information about guns or shotgun shells, your nearest Remington-Peters dealer can help. We also suggest you send for the new Remington-Peters color-illustrated catalogue. No charge. Just write to Remington Arms Company, Inc., Bridgeport, Conn. 06602-Dept. 000.



helps your marksmanship, because there's no change in stock or trigger

pull. (Specific choke recommendations

are given below.) Barrel length is still largely a matter

of personal preference. However, for

upland game there is a trend toward

shorter barrels. When you're in close

cover, a 26" or 28" barrel is less likely

to get fouled up in the brush. And forget

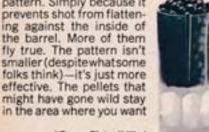
about the old idea that a longer barrel

will "shoot a piece further". That's a

There's one thing you can be sure of. No gun will ever shoot better than the shell you load into it. That's why it really pays to insist on Remington or Peters shells every time.

With the exception of our special scatter load and 410 gauge, all Remington and Peters Upland Game Shells have the patented "Power Piston" onepiece wad. "Power Piston" puts up to 10% more knockdown power into every

pattern. Simply because it prevents shot from flattening against the inside of the barrel. More of them fly true. The pattern isn't smaller (despite what some folks think)-it's just more effective. The pellets that might have gone wild stay



"Power Piston" Wad

#### Remington OUPDND PETERS

"Remington", "Peters", "Wingmaster", "Power Pigton", "Shur Sher", and "Victor" are Indomarks registered in the U.S. Patent Office, "High Velocity" is a trademark of Remington Arms Company, Inc.

\*Fair Trade Prices in states having Fair Trade Laws.

## TRIGGER

SINCE publishing "Has Industry Betrayed Us?" and reading the rebuttals which came to this desk, it has been difficult to form a firm opinion on either of these two sides. What follows is, like any other view expressed on a controversial subject, merely one man's opinion. I am willing to take full credit, or full blame.

In answer to the pointed question: "Has the firearms industry betrayed the shooter, hunter, or collector?" Let's first get our definition straight. Webster defines betrayal as "to deliver to an enemy by treachery or fraud . . . " Taking this definition, neither industry nor any of the industry associations have betrayed anyone. They may, in some cases erred in their judgment, but nobody has proved to my satisfaction that there was any treachery or fraud involved. Also, there is one other definition that must be discussed, and that is "industry." Simply because a spokesman for one firearm manufacturer speaks in favor of some sort of gun control legislation, this should not be taken as an indication of the feelings of the entire industry.

Personally, I feel that if we take the definition of betrayal as Webster puts it, there has been none. If we apply the term in its loosest interpretation, as a number of our readers have done, then there were two betrayals. The first was by the lawmakers, for they alone wrote, introduced, and passed the gun control laws. The second betrayal was by the gun owners of the U.S. who betrayed themselves. They, more than the firearms industry, held in their hands the one power required to stop any form of anti-gun legislation—the vote.

I will admit that many—reportedly close to a million—gun owners worked hard and long to defeat anti-gun legislation; yet no harder than many of the leaders of the firearms industry.

But where were other 19 million gun owners?

#### THE COVER

Pair of powerful pocket revolvers; the Colt Diamondback and the Smith & Wesson Bodyguard. Two of the finest of the small .38 Special handguns. Photo by Gene Lovitz of Chicago.

#### OCTOBER, 1969

Val. XV. No. 9-10

Ceorge E. von Rosen Publisher



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Shooters Club of America

Crossfire







Point Blank ...... Col. Charles Askins 60

Shopping With Guns ..

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### News from the ... SHOOTERS CLUB OF AMERICA

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

Mass media's distortions of facts and statistics to influence anti-gun sentiment are a matter of record. The frightening facts are that in spite of the victories won by the mass media when they succeeded in bringing about the passage of the most recent package of anti-gun legislation, they are definitely

not content to rest on their laurels.

The Nixon administration is pledged to oppose restrictive firearms legislation, but the news media—radio, TV, news-papers and national news weeklies—are certain that by exploiting the misuse of firearms in violence, they will be able to persuade the current administration to act against all firearms owners and perhaps even succeed in their fondest dreams—the total elimination of private firearms in America. To combat the plans of the anti-gun factions and their allies, the mass media, is not an easy task. When one is confronted with articles, features and SCREAMING HEADLINES each day, everywhere we turn, describing in detail how innocent people were victimized by gun-toting gangsters, it is difficult not to be convinced that gun control is not only desirable, but absolutely necessary. Our efforts to overcome this biased and distorted reporting are a constant struggle. The mass media have a captive audience of many millions while we must expend a great deal of money for public relations campaigns and make extraordinary efforts to get national exposure for our sentiments.

Now, with Congress about to reconvene, this could well be the most important period in history for legitimate gun owners who wish to protect their rights to keep and bear arms. The battle is often won by the side that strikes the first blow. Let's make certain all legislators are aware of the power of sportsmen at the ballot box. Show them the

solidarity of our feeling.

The crazy-quilt of gun legislation currently encumbering legitimate shooting sportsmen is at an all-time high. Even the Alcohol, Tobacco and Firearms Division of the Internal Revenue Service is thoroughly confused by the legislation. The resulting erratic enforcement of federal statutes arouses anger on the part of those individuals who are slapped down while others escape prosecution. This unfortunate situation is a direct result of over-restrictive, virtually incomprehensible legislation that places restrictions only on those people least in need of regulation-legitimate shooting sportsmen.

To develop a movement toward sensible firearms legislation requires tremendous public relations efforts. THE SHOOT-ERS CLUB OF AMERICA is undertaking this difficult task. Until gun legislation is directed against the criminal rather than the sportsman, the SCA will not be satisfied. Until those laws deemed necessary become clearcut and easily under-stood, the situation will not be acceptable. For legitimate gun owners to be held guilty of crimes because of lack of understanding, when even the professionals charged with enforcing the laws are not certain of the interpretation is a scandalous situation.

Help us help you and your fellow shooting sportsmen. Our goal is modification of restrictive firearms legislation. We can bring about change-but only when we work together. Legislators must be aware we will support those who work in our behalf, and campaign against those who wish to disarm us.

If you value your rights to keep and bear arms—a constitu-tional principle which has been protected throughout our nation's history-join THE SHOOTERS CLUB OF AMERICA today! We can not afford to sit back and allow "nature to take its course." We must act now! Use the attached en-velope to send your membership to THE SHOOTERS CLUB OF AMERICA. Protect your right to keep and bear armswhile you still have these rights!

#### SUPPORT YOUR RIGHT TO OWN AND USE FIREARMS!

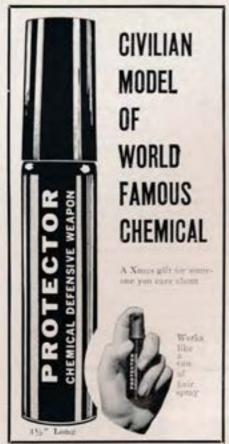
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## **CROSSFIRE**

Betraved?

While I don't qualify as a "recognized spokesman" to present the other side of the ID card controversy, I feel I must present my thoughts so that in a small way I may add to the opposition.

On the surface, the ID card system has definite merit insofar as its potential for denying firearms to undesirables is concerned. A bonafide card certainly establishes the card holder's integrity and law-abiding background. It is commendable to that point, but let's look to the future.

Since last July Illinois shooters have lived with an ID card system similar to the Industry Model. Owners only are licensed and no guns are registered (except in Chicago by local ordinance). At least not yet, Ideally, it is administered by a separate department headed by a respectable former FBI executive. Thus far, it appears workable. However, as with other firearms laws, numerous violators are arrested, but few convictions and even far fewer jail terms result.

But also consider this: Prior to the introduction of the ID card concept in the state legislature, there was a strong movement afoot for a state firearms registration law. This was furiously opposed by the shooting fraternity. Through their diligent efforts, the influential state senator who sponsored the registration bill, finally relented. But, to the surprise of many, he merely changed gears and introduced the ID card approach. Perhaps because it caught us unaware, or because it seemed the lesser of two evils, the idea met with far less resistance and was put into law. We are stuck with it and it's here to stay.

Now, some ten months later, and the incidence of the criminal use of firearms up from the previous years, we are again faced with a variety of bills involving firearms registration. The strongest demands for registration are again from that very same influential state senator who had pushed for it last year.

The point is this: If we shooters not only support ID card bills, but actually help introduce them, we're only kidding ourselves if we believe that that will permanently stop the pressure for firearms registration and red tape. Once the do-good legislators who pass ID card laws (perhaps even with our help) realize that the law is no panacea for our serious crime rate, we will again be faced with registration; make no mistake about that! So I say that all of our efforts should be directed to fighting all additional firearms laws, including ID card laws, The more concessions we make, the easier will be the task of anti-gunners to register our guns. And no one seriously believes that our fight will end with registration. The anti-gunners certainly will not stop there either. Eventual confiscation is the name of their game.

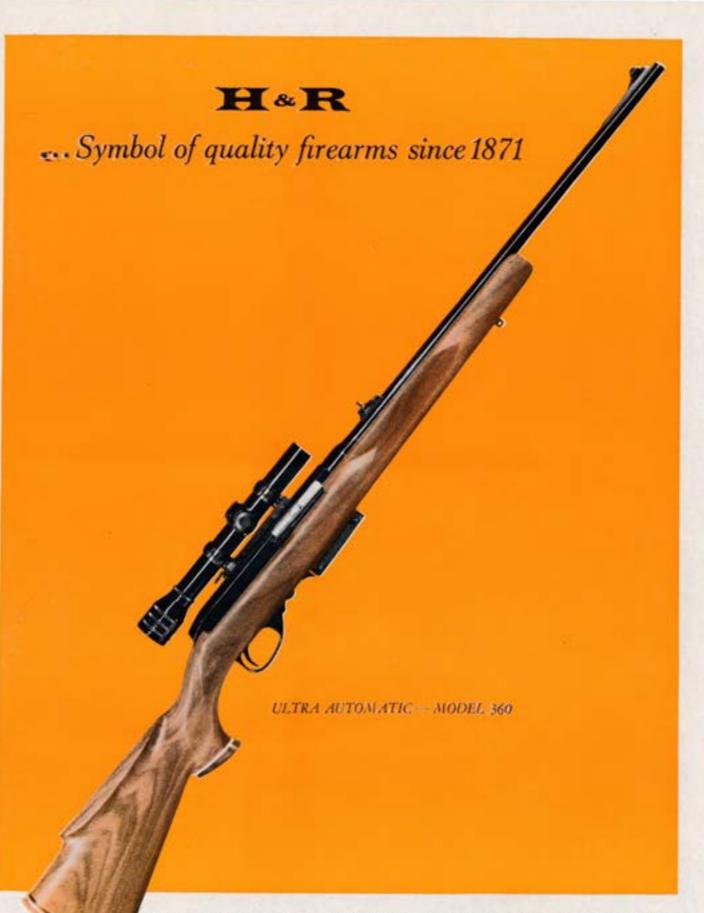
> Henry M. Gruber Chicago, Ill.

In reading Mr. E. B. Mann's "Has Industry Betrayed Us," one can hardly fault his arguments in offering a firearms ID card as, "better than gun registration".

However this is to point out the obvious, that such a system may well be unconstitutional if anyone questioned it to the higher courts. It is this writer's (layman) understanding that one of the basic concepts of law in this republic is that all laws apply equally to all persons. Singling out the gun owner only as being required to carry an ID card at all times seems neither legal or fair. It is not a license as such as required for driving or fishing for example.

It follows then that considerable argument could be made at both the state and national level for an ID card to be carried by all persons of legal age. There would be a very real advantage to the individual as positive identification would include his finger-prints and probably a photo. In addition such a card could carry pertinent

(Continued on page 8)



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#### CROSSFIRE

(Continued from page 6)



When this Benjamin was introduced last Fall, we expected its sleek lines, superior performance and reliability to appeal strongly to shooters, young and old alike. But who ever dreamed we'd have to work like beavers to meet demand. Surprising? No. This line single shot with its amazing peak power and higher standards of accuracy and safety opens a new world of shooting fun. And we judge that costomers with an eye for value sense this fact the moment a dealer puts this Benjamin in their hands.

What does all this mean to you? First, we must be building these guns right. A slew of orders tells us more and more gunners are discovering the thrills this great air rifle adds to indoor outdoor uses. Also, we predict another jump in demand in the days ahead. Don't take chances. See your dealer soon. Be sure of get-

the days ahead. Don't take chances. See your dealer soon. Be sure of getting the model you want. 3 calibers at moderate price: Model 340 Cal. 88 — Model 342 Cal. 22 Pellet — Model 347 Cal. 177 Pellet.

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medical information in code form. As it must also identify the person of good character as a means of purchasing firearms it would be considerable help to the police by containing a criminal record.

It opens up great possibilities in crime prevention and would be restrictive on the con artist and bad check writer. Most of this class are repeaters. By making it a felony to alter or falsify the ID card it would certainly slow such activities.

This writer believes the above to be an improvement over the gun owner ID card and one which is not objectionable to any but the criminal minded. Certainly gun owners could live with it if applicable to everybody. At the moment except for cost, no good arguments opposing such a universal ID card come to mind.

> W. S. Vickerman Ellensburg, Wash.

#### Reflections on Reflections

The July 1969 issue contains a jewel of an article. You mentioned it to me some time ago with great understatement. In my opinion, Nameer Jawdat (gad—is that really his name?) should write one article each year like this. This is what the business needs But I'll bet the letters are coming in —purple, blue, yellow and livid.

There are a lot of good, previously "unsaid" statements in that article.

He should expand into an article the second paragraph from the top, right hand column Page 43. That in itself is worthy of a 3500 word article. This is the heart of American gun ownership and has never—to my knowledge—been discussed. "It was never a Status Symbol—". Whoever wrote this article should keep on it.

> Mason Williams Stanfordville, New York

Dear "Guns":

Have just recovered long enough from a fit of laughter, complicated by copious tears (which are thinning my ice-tea), to set down and share my thoughts with you. This 'malady' of laughter has stemmed from reading "Reflections of a Gun Nut" (July 69) by Nameer Jawdat. When I looked to see who wrote the article I crackedup again, I'll buy Nameer, but—Jawdat? Is the name as serious as the article?

I am an UN-reformed 'Gun Nut', may our tribe increase? The security and future of our United States rests in our hands. May God grant us all the wisdom and strength to keep America a 'Nation of Riflemen'.

But as I started to say, any group of handsome, virile, morally upright men, such as we 'Gun Nuts', are bound to thoroughly enjoy the kind of humor employed in 'Reflections'.

The purpose of this letter is to thank you, and Mr. Jawdat, for this article and to encourage your printing a great deal more like it in the future. Should you do so, I might even quit bitchin' about your raise in price long enough to get a subscription.

In the article Mr. Jawdat, in referring to an aggressive man, stated, "The speed of his conversion by the elegance of your logic is directly proportional to the size of hole in the barrel," Amen! I support those who ad-

(Continued on page 11)







## All the fun of a "cottontail caliber" with the finesse of a Mark V Magnum!

Whether you're hunting cottontails, astonishing spectators at the rifle range, or simply punching daylight in tin cans in some remote canyon—the Mark XXII commands respect the moment you slip it out of the case.

First and foremost, the Mark XXII is a Weatherby. It's made in the same tradition of quality and craftsmanship of Mark V Magnums.

The stock is of the cho-cest walnut, handcheckered and superbly finished. The barrel is hand-bedded to assure precise fit of walnut to steel that makes for added accuracy.

The Mark XXII features a single-shot selector, unique among .22's, that lets you

switch from semi-automatic to single-shot fire at the flick of a button. This is just one of the "extras" that make this such an extraordinary rifle.

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Deatherby

For bigger game—from varmints to elephants, Mark V Magnums—from .224 to .460! (Continued from page 8)
vocate the use of big bores on criminals or critters!

As a young boy I was fortunate enough to be acquainted with an elderly gentleman, who I believe really had—"been amongst um". He very kindly let me fire his Sharps .44-120-450 with Vernier tang sights at 1000 yds. Making a hit (on a rather large target) has addicted me to 'sulfer, smoke, an boom' ever since.

What I'm saying I guess, is that I like to see more of the punkin ball and sulfer smokin articles in yere rag. There are also several writers who contend that one of the better deterrents to crime is .45 cal., let's hear from them.

I would also like to thank you for your efforts on the behalf of shooters everywhere. Helping to educate the public on the realities of owning and using guns is one of the ways we have to combat 'anti-gun' legislation.

Whether motivated by profit or patriotism, every effort extended by organizations as yourself and the NRA are gratefully accepted by me. I want my kids to know the thrill of the hunt, the sport of owning and bearing firearms, the responsibility of conservation, both land and wildlife.

With all of us pulling together we will keep America free as a 'nation of Riflemen'!!

> Very Sincerely Yours, Bob R. Robinson Box 188 Organ, N. Mex. 80052

P.S. Due to red eyes and sore stomach\* my typing (?) is sort of Doddish (all messed up). \*due to laughter.

#### "Fan" Letter

While I have neither the time, inclination or desire to write "fan" letters, just a moment to advise that I thought your July '69 issue one of the very best, headed by readable and "knowledgable" (!) articles by Les Bowman (my favorite scribe and fellow hunter), Col. Chas, Askins and Nameer Jawdat (Never Heard of Him Before but GOOD).

I always like for my customers and friends to tell me what they like about my products and this is in a way a "return favor".

> Lee T. Meyer Houston, Texas

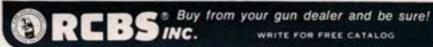




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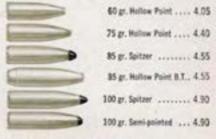
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45 pr. Spitzer ...... 3.20 50 gr. Semi-pointed ... 3,40 50 gr. Spitzer ...... 3.40 50 gr. Blitz .......... 3.40 55 gr. Semi-pointed ... 3.40 55 gr. flohtzer ...... 3.40 63 gr. Semi-pointed ... 3.50

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-	117 gr. Spitzer Boat Tail 5.15
The same of the sa	317 gr. Spitzer Flat Bose 5.15

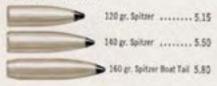
6.5MM .264 Diameter



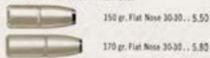
.270 CALIBER .277 Diameter



7MM .284 Diameter

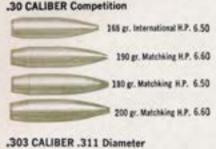


.30 CALIBER .307 Diameter



.30 CALIBER .308 Diameter

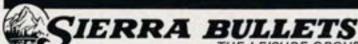
110 gr. R	ound Nose Carbine 4.15
	110 gr. Hollow Point 5.00
	125 gr. Spitzer 5.15
	150 gr. Spitzer 5.50
	1 165 gr. Hollow Point 8.1.5.70
	▶ 180 gr. Spitzer Flat Base 5.83
	180 gr. Spikter Boat Tall 5.80
	180 gr. Round Nose 5.80
	220 gr. Round Nose 6.35



-	150 gr. Spitzer	5.60
	180 gr. Spitzer	5.90

8MM .323 Diameter

	•	150 gr. Spitzer	 5.60
-	>	175 gr. Spitzer	 5.90



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#### HANDLOADING BENCH

By MAJ. GEO. C. NONTE

Some of the Strangest Let-ters and questions directed to my office concern propellent powders for handloading. When I say that some of the questions asked seem to border on the ridiculous, I'm not in any way belittling the people who ask them-after all, asking questions is the only way to eliminate ignorance and/or refute misconceptions, Actually, the pure tyro isn't the person who generally comes up with the strangest queries. Generally speaking, the fellow who knows that he isn't too well informed on propellent powders is more inclined to be satisfied with data contained in existing loading manuals. The man who seems to run into the most trouble and requests the most information is the one who is an "almost-expert." In the vernacular, he is like the half-trained psychiatrist who has "just enough knowledge to make him dangerous."

Some of the more extreme questions we get go like this: "I have a good supply of H4831 powder and it seems I ought to be able to use it to load my .44 magnum by cutting the grains in half or in thirds. What do you think?"; "I load for .45 ACP, .308, and 7mm magnum, I only want to use one powder-which one is best to use in all three calibers?"; "Please tell me what powder to use to get 3200 fps with a 150-gr, bullet in my 8mm Mauser." The first appears to be based upon the writer having read one of the several references that state that all single-base nitro cellulose propellants are essentially the same chemically as well as in energy content; and that burning rate is dependent primarily upon kernel size. Viewed in this light, the question doesn't seem as ridiculous as it might at first. To be sure, almost any extruded powder may have its burning rate increased by cutting the kernels into smaller particles. This greatly increases the surface which may burn, but the results would be erratic unless the cutting was very precisely controlled. Another factor also enters into the situation; the fresh-cut areas expose "raw" powder which is not covered by coatings and other additives which in themselves exert considerable con-

trol over both ignition and burning rate. Consequently, attempting to utilize a surplus or salvage military powder by cutting or breaking it into smaller kernels could prove to be quite dangerous, Such powders are sometimes converted by factoriesbut the conversion process consists of first stripping the coating and making the nitro cellulose plastic (soft) and then re-extruding it in the proper form and cutting it to length as was done in original manufacture. Large quantities of artillery propellantwhose individual kernels may be as large as your finger-have been salvaged in this manner. However, under no circumstances is it safe for an individual to attempt to alter the burning rate of any smokeless powder by modifying the individual kernels in any way. To do so is to court disaster,

The second question is easily answered with a flat "no", Modern smokeless powders are remarkably versatile, However, the versatility of any one powder exists only within particular limits. Consequently, a powder suitable for a high-intensity bottleneck rifle cartridge similar to the 7mm or 300 Magnum cannot be extended to function satisfactory in pistol-type cases which are short, stubby, straight, and operate at much lower pressures. There are some 33 rifle-type powders that are currently readily available in this country. They represent an extremely wide variety of burning rates to suit individual ideas of ideal matching of pressure and velocity levels, case capacity, case shape, and bullet weight. In reality, the entire range of rifle calibers from the .222 Remington through .30-06 and on to include the hot Weatherby magnums can all be given satisfactory levels of performance with only three different powders. A relatively fastburning powder whose burning rate falls in the IMR4320-3031 range would serve for medium-weight bullets in cartridges in the ,222-,308 Winchester range; a slightly slower burning powder such as Hercules Re 11 would serve to that point upward through .270 Winchester and .30-06; while a slower powder yet in the 4350-4831

(Continued on page 48)



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#### **OUR MAN IN**

# WASHINGTON







By CARL WOLFF

Would you believe another anti-gun bill by Senator Thomas J. Dodd? Well, it is true. Under this one, S. 2433, you, as a gun owner, could be certified by the federal government to keep your guns, provided you register them.

Well, maybe you could keep them. Regular readers will recall that this law-maker stated last year during the antigun show before his Delinquency Subcommittee that it was impractical at the present time but he would like to see them all done away with. Enactment of this legislation would make it more feasible, if not practical.

Sen. Dodd told the Senate, upon the introduction of this bill that his latest measure would supplement the "Gun Control Act of 1968." by certifying the owners of an estimated 200 million guns now in the United States, to weed out would-be assassins, known felons, addicts, mental defectives, fugitives, and others."

The certificate would cost \$1, be valid for life, cover the possession of an unlimited number of firearms and be revocable only for "just cause." The fine print reads differently:

\*Each person desiring to obtain a certificate shall file an application with the Secretary (of the Treasury). Each such application shall be in duplicate and in such form as the Secretary shall prescribe, and shall include at least the following information:

\*(1) the name, address, date, and place of birth and social security or taxpayer identification number of the applicant;

\*(2) the name of the manufacturer, the caliber or gauge, the model and the type,

and the serial number of any firearm possessed by the applicant;

"(3) the name and address of the transferor from whom the firearm was or is to be acquired and the date and place of the transfer; and

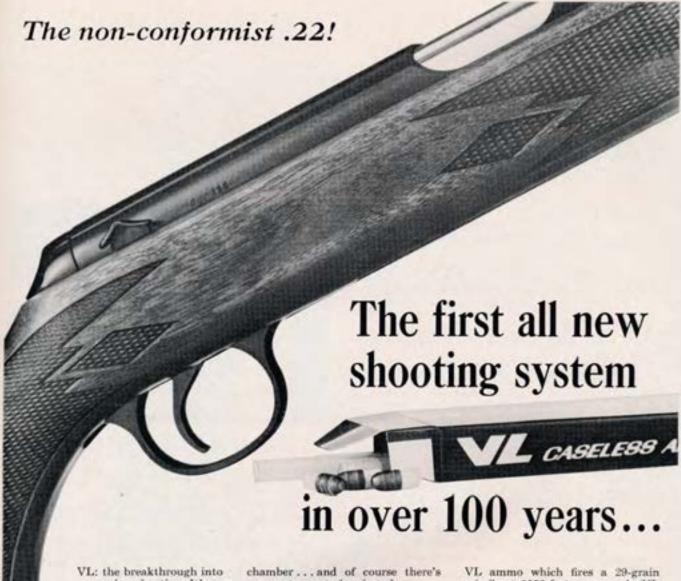
"(4) the date on which the application is made. (b) The original application shall be signed by the applicant and filed with the Secretary, together with a fee of \$1, either in person or by certified mail, return receipt requested

It doesn't take more than a grade school education to see the sins in this section: "The Secretary shall prescribe, and shall include at least the following information." This is plenty of authority to require pictures, fingerprints, and character references.

But, Mr. Dodd wants to weed out wouldbe assassins, known felons, mental defectives, fugitives, and others. It is the "others" that worry legitimate sportsmen. The senator knows, or should know, that it is already against various state and federal laws for undesirables to own guns. According to the dictates of the Supreme Court, requiring an undesirable to register his gun is self-incriminating.

In other words, under the Dodd proposal, only law-abiding people could be prosecuted for owning but failing to register their firearms. Of course, then they would become criminals, not permitted under existing laws to purchase firearms.

There is more fine print to the latest Dodd bill: "Each person, other than a licensed dealer, who transfers a firearm, after the effective date of this chapter, shall forward to the Secre-(Continued on page 74)



caseless shooting. It's as different from the brass cartridge as the cartridge was from loose powder and shot. And the revolutionary VL rifle and ammo are available at your dealer's now.

This is a true system, not just another modification of ammunition or action. VL ammo is a missile with a short rod of propellant fused to the base. In the VL rifle the propellant is ignited directly by a jet of heated air. There is no case, no primer, no hammer, no firing pin, no extractor, no ejector.

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\*For your collection: special low-number presen-tation-grade model in fitted case. Available for a limited time . . . about \$125.

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	Send me names of VL dealers in my area.
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AN ACT PROVIDING FOR THE LAWFUL OWNERSHIP, POSSESSION, AND T THE ARMS LONDER A FIRE ARM OWNERS IDENTIFICATION CARD SYST PROVIDE A PENALTY FOR OWNERSHIP, POSSESSION, AND TRANSPER OF PRICEARMS WITHOUT A FIREARM OWNERS IDENTIFICATION CARD,

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By Robert M. Price

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#### **EDITOR'S NOTE**

This article, a rebuttal to the article "Has Industry Betrayed Us," in the May issue of GUNS Magazine, was chosen from a number of others submitted. A check is being sent to the organization denoted by Mr. Price.

THE SUPPORT of a model I.D. Bill by the firearms industry is a betrayal of the right to keep and bear arms. No matter how generous the terms are made to sound, no matter how many "good" points it has, it is a betrayal, nor is it the first one.

Let me say I sympathize with Mr. Mann on trying to get a good law. In fact, an article was published in this magazine under our joint byline in March, 1964 (A Pro Gun Law - Now!) And while times, and people, may change, our basic convictions must not, or all our freedoms will go right down the tubes.

The major flaw in the model I.D. Bill is that it would be compulsory. To be sure, it would be better than a bill written by a wild-eyed anti-gun fanatic; so is a bullet in the head as opposed to garroting, but why dig your own grave. A point Mr. Mann dismissed rather lightly is the way such a bill could be amended. Sullivan law permits were originally free, and are now \$17 annually and virtually non-existent. It would be far, far easier to amend an existing licensing law than to get a licensing law passed in the first place.

Any compulsory license law will deter a lot of people from owning guns, a point Mr. Mann decries, but which would be considerably furthered. Each additional level of paperwork will deter a few more people, which is just what the anti-gun people want.

If we were discussing a voluntary license for serious collectors, who do a lot of buying, selling, swapping, or collecting of ordnance or machine guns, this would be another matter. The casual gun purchaser could then, as is presently the case in California, be subject to the waiting period while he is checked by the police. This is entirely adequate, and far different from a compulsory license.

Acceptance of any compulsory licensing would be virtually the last nail in the coffin. Let us briefly review what we have lost, and it is a great, great deal:

1. Machine guns, sawed-off shotguns, short-barrelled rifles, pistols with shoulder stocks, and a host of exotica such as glove pistols, belt-buckle guns, etc. These, of course, were outlawed by the National Firearms Act of 1934, passed with the compromising help of the National Rifle Association, a fact they freely admit. Emotions aside, consider for a minute that these guns are no more dangerous than any others. Machine guns, for example, could be bootlegged or manufactured, but their criminal use went out of style. Also, they are inaccurate and waste ammo. Sawed-off shotguns are easily made from any shotgun, one of the most common firearms around. Pistols with shoulder stocks can't be any more "dangerous" than the pistol ammunition they usually fire. The assorted oddities are so small in number their criminal use must be miniscule, if even existent,

 Military ordnance, such as bazookas, mortars, anti-tank guns, and the like.

The 1968 Gun Control Act outlawed these, with the full support of the N.R.A. and most of the gun industry. Why? This whole class of weapons was involved in only two or three crimes, no one was killed or even injured, and the criminals were all caught. There is, perhaps, good reason to outlaw live grenades, high explosive shells and rockets, and the like, which would pose not only storage problems in the average home, but which few ranges would like to see fired, to say the least. Still, these were not being sold, nor collected by anyone I know.

3. All imported surplus military weapons and ammo.

The gun industry widely supported this, as it meant less competition. But it is a short sighted policy, as a lot of people will put off and eventually never buy a high priced, new sporting weapon, but might buy a surplus military gun and graduate up. A bullet is a bullet, but military ammo is cheap for target practice, encouraging shooting. Also, a few years from now, many guns will be without ammo as surplus stocks diminish.

4. All surplus U.S. military weapons and ammo. Again, supported by industry. All surplus U.S. guns, and ammo, if we can't find some 10th rate power like Peru kicking us in the shins to give them to, are torched in a government smelter. The ammo is subject to fantastic waste under "training" programs in the military, where it is shot up merely to get rid of it.

5. Confiscated "criminal" weapons.

These laws vary from state to state, but many firearms are picked up simply due to restrictive laws, such as in New York, and are destroyed rather than sold.

The free importation of commercal weapons.

While this is theoretically still possible, the red-tape is tremendous, and many types are not permitted at all.

7. Mail order firearms.

Mail order is a dirty word, of course, and while many local dealers have cooperated by receiving and registering the guns, the effect is grave. The additional cost and work involved discourage many individuals and dealers.

Out of state and over the counter sales and gun shows.

Out of state sales are gone or severely restricted. Dealers must sell only in their stores. Both of these factors, plus harassment of the shows with undercover Treasury agents and persecution of individual collectors are killing the gun shows,

9. Firearm Registration.

Mr. Mann said the gun industry would continue to oppose gun registration, but gun registration is already a fait accompli, even if the nail is only half driven. With the recording of all ammunition purchases, with the Federal form for all gun purchases, the effect is virtually the same. Also, perhaps erroneously, during the recent commotion before passage of the gun control act, I heard that several manufactures DID support registration. If this is not so, might they not in the future, as they once vehemently opposed licensing?

"Why should Industry betray us?"
Mr. Mann asks. Perhaps they are under government pressure through antitrust suits (most gun companies are only part of vast industries), or need government defense contracts, or perhaps they think they make more money out of some of these laws, as mentioned earlier, or perhaps they simply want to avoid controversy and will compromise principles. Perhaps they should explain the whole story?



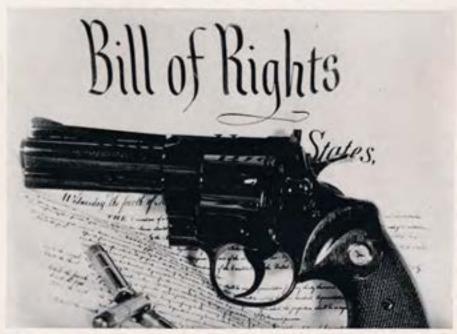
Really, the only major point left to lose is gun owner licensing, and this remains bad in any compulsory form. Why should a man have to have a license for a gun kept in his home or business? Is it not then a privilege rather than a right? Couldn't we then look for restrictions on the number of guns owned, amount of ammunition possessed, telescopic sights, and similar proposals?

And why do we always talk about surrendering this point or that, never any give and take to make our gun laws sensible. England, for example, often touted for its strict gun laws, makes little distinction between types of weapons for collectors. No one is usually allowed to own guns for protection, it simply isn't done. Their Firearms Certificate is available to citizen or non-citizen alike, provided they are responsible. Shotguns are the most common weapons, as they are the principle hunting gun, but collectors can and do own many guns classified as "illegal" here. The same is true in Canada, Australia and other countries. At least they are consistent.

Here, there is not one demonstrable shred of any effort to get good laws, only to make them as restrictive as possible. It may be only a point here and a point there, but the effect is the same. As hunting diminishes or gets harder in our urbanizing country, the logical gun outlet is collecting. There should already be more collectors than hunters, but there are not. While the vast number of hunters has prevented complete outlawing of guns, collectors have borne the brunt of legislation. Collecting is strangulating rather than expanding, a fact hunters will live to regret, when their privilege to hunt comes to rely on the collectors who aren't there.

We must remember that our origin of gun ownership was not sporting or self-defense oriented, although these undoubtedly entered into it, but it was political. The Right to Bear Arms was intended mainly as a means to revolution, the ultimate guarantor of political freedom. Any law should be considered in this light, as would an attack on our free press under the guise of attacking pornography.

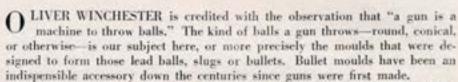
ere in California, the Black Panthers succeeded in getting a bill passed that outlawed the carrying of a loaded weapon in an incorporated area. (Before this, theoretically, a man could carry an unconcealed loaded weapon. under the premise that if he had no illegal purpose he did not need to conceal the gun; or so went the reasoning when the outlawing of concealed weapons went into effect,) This law was due to be pidgeon-holed until the Panthers invaded the State Capitol with loaded weapons, thus killing a right for everybody. Surely, they must have known the adverse effect their raid would have? They, among other things, run around with the little red book of Mao's thoughts, and are, admittedly, a (Continued on page 51)



# EARLY SHOOTING ACCESSORIES

## Part 2 BULLET MOULDS

By JAMES E. SERVEN



The plain round ball has been longest in use, and these were employed for European wheel locks and matchlocks, for early colonial smoothbore flintlock muskets, and for the "Kentucky" rifles and plains rifles of the frontier. In general, these round balls were cast from very simple pincer type moulds without a sprue cutter. Very deluxe round ball moulds were made, however, to accompany highly decorated princely pairs of flintlock and caplock pistols; some of these moulds were elegantly sculptured and even inlaid with gold or silver. Several such moulds will be illustrated with other implements for cased arms in the third and final part of this series devoted to accessories.

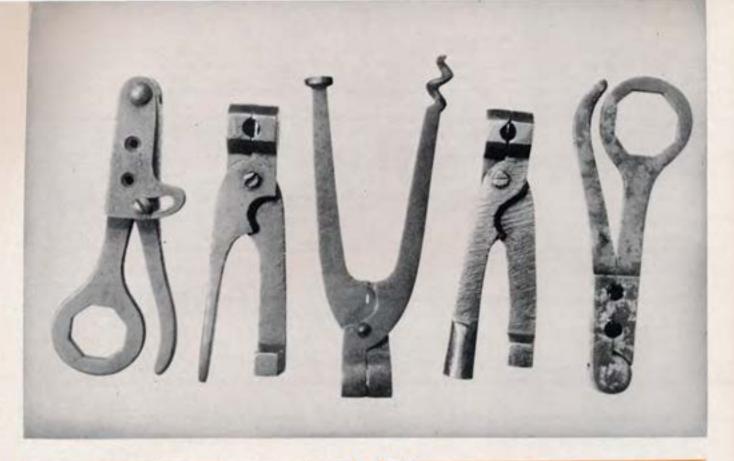
At first the size of the cast balls was indicated by the number required to weigh a pound, and we find specifications for U.S. muskets and rifles prior to the War between the States designate the caliber in that manner. A chart indicating the calibrated sizes of round balls and their respective number per pound accompanies this narrative,

Although experiments with conical and other shaped bullets had been made prior to the mid-1800s it was not until then that any trend in this direction became noticeable. In 1846 Captains Minié and Tamisier developed a conical bullet with a hollowed base. Cannelures, commonly called grease grooves, en-

Left: Moulds for Maynard rifles manufactured by the Massachusetts Arms Company of Chicopee Falls, Mass., were cut with two identical conical cavities. Below: Combination moulds and loading tools were produced in several styles by the Ideal Manufacturing Company of New Haven, Conn.







Above: Bullet moulds for small flintlock and caplock screw-barrel pistols often served as a barrel wrench or key. Right: A view of the unusual contour in Remington's .44 double cavity pistol mould.

circled the bullet toward the base.

The hollowed base of the Minié bullet caused the lead to expand snugly in the bore when driven by the powder explosion and thus provided greater accuracy. This type of bullet was introduced into our U.S. military service in the 1850s.

Walter Hunt invented an odd conical bullet in 1848. It not only had a hollowed base like the Minié but the cavity was filled with the propellant gun powder. The charge was not very potent and the idea was soon discarded, but it is indicative of the trend away from the round ball and toward the conical shape.

Changes in the firearms themselves dictated changes in the bullet forms and in the moulds used to cast them. It developed that Samuel Colt, who had built only round ball moulds for his first arms made at Paterson, N. J. from 1836 to 1842, provided a conical single cavity mould of .44 caliber (32 to the pound—about a 220 gr. bullet) for his big Whitneyville-Walker pistols made in 1847. Thereafter during the muzzle-loading period the standard Colt bullet moulds were made with two cavities, one for a round ball and one for a conical ball. While the round ball size obviously remained constant in any given caliber, different lengths and grooves were employed in the conical balls for the Colt pocket, belt or holster models. The Colt moulds made at Paterson, N. J. may have been the first American production models to employ a sprue cutter.

It was found that Christian Sharps' breech-loaders, patented in 1848, would perform well with conical bullets and prepared paper or linen Sharps cartridges usually employed the conical shape.

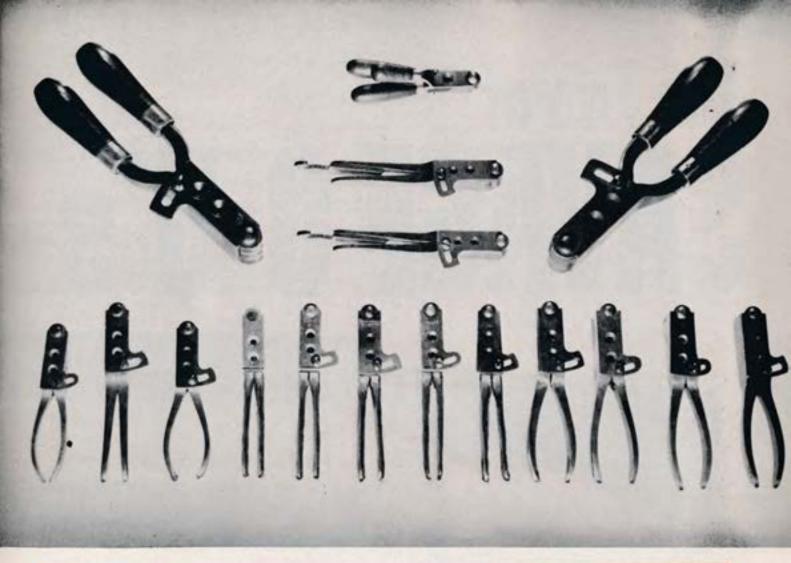
Sharps moulds offer an interesting study in themselves.



When the models designed for metallic cartridges were introduced, it was found that paper patched conical bullets would perform best and this called for sturdy moulds to cast bullets weighing up to a whopping 550 grains.

The Sharps moulds are usually marked with the caliber and grain weight of the bullet along with the Sharps name and address. Sometimes "Old Reliable" in script is stamped on the handles. The head of the standard moulds has nipper jaws to act as a sprue cutter in trimming excess lead from the cast bullets. These standard moulds are of all steel construction, but there is a relatively rare Sharps mould made of bronze with a steel sprue cutter. This mould does not have two jaws as is the usual construction; it has a single loop handle and a deep solid cavity from which the cast bullet must be tapped. I have before me a mould of this type and the sprue is marked: Cal. 50-473. Sharps Rifle Co. Bridgeport, Conn. This particular mould is for the rare .50 caliber Sharps with 31/4" case. Cartridges of this type are now exceedingly rare and a single specimen brings a high price.

At least some of the Sharps moulds were made by the Bridgeport Gun Implement Co. who, along with the Ideal Manufacturing Co. of New Haven, were undoubtedly the



Above: A group of 17 "Colt's Patent" moulds, all of them having some differences. The mould at top center with three wooden handles was designed for Colt's first pistols made at Paterson, New Jersey. This was possibly the first American production model incorporating a sprue cutter with the mould. The double cavity mould is for one ball and one conical. The single cavity mould is for ball only.

greatest producers of firearms loading accessories of their time.

The solid-cavity moulds, as described for the .50 caliber Sharps mould, were not as widely used as the double jawed type. Starr used them, however, for their .36 and .44 caliber cap and ball pistols. Blunt & Syms, Tisdell, Ferris and others used them, some designed to form moulds that cast bullets in two parts; on such moulds the base was soft lead and the front portion an alloy of tin and hard lead. The two parts were swedged together. Moulds to cast bullets of this kind, of course, had tapered or conical cavities. They were most frequently used for caplock match rifles.

As a normal thing, bullet moulds performed only the one service, but back in the early days of the flintlock and caplock screw-barrel pistols (barrels could be easily unscrewed to load) the handles were sometimes fashioned to act as a wrench, either encircling the exterior of the barrel or serving as a squared key to fit in grooves cut in the bore. In other instances the ends of the handles were formed to make a loading rod for seating the ball or a worm to extract the ball if you forgot, during the reloading sequence, to put the powder in first!

The most popular type of American bullet mould from about the 1840s to the 1870s was the two-cavity, twohandled mould, usually with a sprue cutter fastened by a rivet or screw. The sprue cutter plate had holes through which the hot lead could be poured into the cavities and was designed so that it might be tapped sidewise to the extent of a channel at the rear in order to trim any excess lead from the moulded bullets. There were some multicavity moulds casting six or more bullets at a time, usually called arsenal or gang moulds, made for quantity casting by the military establishment or others,

At the Pennsylvania Farm Museum in Landis Valley, near Lancaster, you will see some early soapstone bullet moulds. Brass and iron, however, were the materials commonly used. The brass was easier to work but not as durable as iron and eventually the use of brass in making bullet moulds fell into disfavor.

Perhaps Americans were less interested in novelty than the military and sporting gentry of Great Britain for if one thumbs through Greener's The Gun and Its Development he will be amazed at (Continued on page 72)

# The Trio of SAVAGE O-U's





Cloudes

By CHARLES ASKINS

L AST YEAR, Savage presented us with a new over-under scattergun, the Model 440. This gun was an entirely new design and it was a real humdinger! It was instantly accepted by American shooters. It had a whole hatfull of good handling qualities, and as soon as a shooter got hold of it he immediately liked the newcomer. It is an interesting phenomenon about the barrel-over-barrel shotgun that you seldom if ever find a wingshot who cannot handle them. The new Savage was that way.

Now Savage has added a new overunder to its offering. This is the Model 330, an improved version of the Valmet. And with this second new gun, Savage has also improved the original Model 440. These improvements to the last year's superposed model have taken the form of a skeet type and a trap model. The skeet gun has selective ejectors. To differentiate it from the 440 it is referred to as the M444. So that today, there are three Savage over-under shotguns available.

The over-under is a status symbol with a lot of proud owners. It is the "in" gun. The glamor number among the smoothbores, You see a lot of shot-gunners who will have a rack filled with pump repeaters and autoloaders and maybe an old fashioned side-by-side double. But up at the head of the stand will be a new vertical barrel

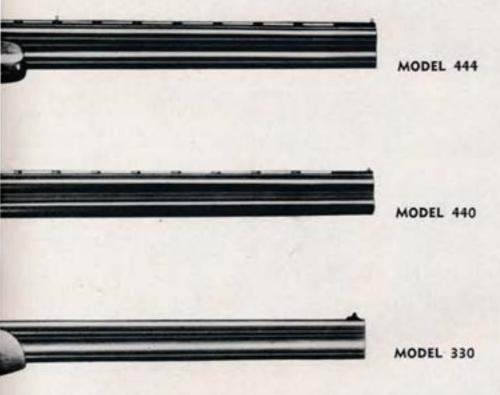
model. When he takes a friend to show off his battery the first gun to be pulled out of the stand will be the pyramidal barrel job. It has class, distinction and style about it.

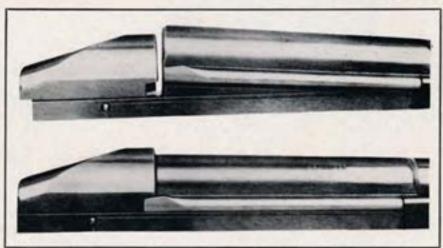
Some wingshots swear by the old double barrel, some hold the only gun for them is the pump, while others are strongly wedded to the automatic. Among these fellows I have yet to see one who cannot take up the tube-overtube model and, without preliminary practice, shoot well with it.

A shotgun has got to be mounted, pointed and fired in fractional parts of a second. If it does not handle surely it will not heed the command of hand and eye, and the target will be missed. The mechanics of mounting, swinging and pointing all depend on the hands. The forward hand is the more important one for it does the most of the work, but the trigger hand is also a vital part of the equation. The hands must both lie in the same horizontal plane or the gun will not be pointed surely.

There is a tendency with many shotguns to have a forestock that is too broad and too deep. When this happens the hands are not in the same horizontal plane and then misses occur. Mostly for elevation. If the forward hand is lower than the trigger hand—a common trouble with pumps and automatics—a high shot will result. If, on the other hand, the forward hand is too high on the forend, a common misfortune with double shotgans, then the gun will shoot low.

The "hands-in-line" principal is vital to successful (Continued on page 53)





The Savage Model 330 has unique top shroud which locks the breech; shown here in open and closed positions.

# HINS. fthe SIXDAY By RICHARD P. MILLER MAR

YOU'VE SEEN the same article in the paper almost daily since mid-1967. "Scattered small-arms fire broke out early today along the Israeli-Arab cease-fire line. Each side accused the other of starting the hourlong skirmish. Reports of casualties varied."

It's the bitter, endless aftermath of the whirlwind "Six-Day War" in June 1967, when tiny Israel rolled up the Egyptian and Jordanian armies and drove them far back within their own territories. And the miniature war itself, like more recent flareups and threatened retaliation, was just one more eruption of a troubled area that's claimed modern world attention since World War I.

Both major political camps, the West and the communist countries, have fanned the embers by pouring arms and other materiel into the Middle East, especially since World War II. Today, Egypt, Syria and Iraq look to the Soviet Union and its satellites for military equipment. The United States, showing less partiality, supplies Israel, Jordan, Saudi Arabia and Lebanon.

But the Six-Day War, among other things, served to show the rest of the world the independent progress made by both Arabs and Israelis in the important sphere of infantry small arms. And although small arms played a relatively minor role during the brief 1967 conflict which was settled by Israeli air strikes and tank meaneuvers—the continued tension in the Holy Land crackles with rifle and submachine gun fire.

Israel started life as a modern nation on Friday, May 14, 1948, armed with castoff British weapons left over from England's long-held position in the Middle East. Mainstays of the Israeli army's weaponry were the ubiquitous S.M.L.E. No. 1 Mark III and the No. 4 Rifle. The only handguns available were Enfield and Webley revolvers in both .38 and .455 calibers, plus on aggregation of Lugers, Walther P-38s and Fabrique Nationale (FN) Brownings in 9 mm. Israeli army machine guns, too, were British: .30 caliber Vickers and Bren guns.

Immediately, Israel began looking around for updated weapons, and thinking of her own arms industry. One of the first developments was a 9 mm. Parabellum copy of the Smith & Wesson military and police pistol—now relegated to use by local Israeli police. This hybrid proved unsatisfactory as a purely military sidearm, and Israel adopted the Model 1951 Beretta pistol in 9 mm. Parabellum, still in use today.

Israel also turned westward for her machine guns. By 1950, she had .30 and .50 caliber Browning weapons from the United States to supplement the British machine guns, and was also using Germany's MG 34 machine gun in 7.92 mm. Completely ringed in to the north, east and south by hostile Arab neighbors, Israeli army officers found machine guns invaluable for exactly the kind of desert flash-fire fighting encountered by the British in the Middle East during their hey-day in the 1920's.

Because they were using the 7.92 mm. MG 34, the Israelis also bought many Kar 98K rifles in the same caliber to minimize supply problems. These were obtained from West Germany and Czechoslovakia. (It wasn't until the late 1950s that Israel joined the 7.62 mm. club.)

In the early 1950s, when the Arab countries were stepping up their saber-rattling and another showdown was obviously near, an Israeli army major named Uziel Gal introduced a handly little submachine gun for wide issue that wrote Israel's name in the history of firearms development. This was the 9 mm, "Uzi" submachine gun.



Above: Egyptian soldier in training with one of the Carl Gustav copies, the 9mm Port Said sub-machine gun.





Above: Egyptian troops "over the top" armed with the copy of the Carl Gustav, called the Port Said. One soldier carries an Enfield S.M.L.E. Right: Israeli soldier stands guard with his German Model 98 Mauser. Note wrecked bridge across river and shelled building.

The Uzi, first issues of which were equipped with a wooden stock, was a step-piece of the Czech ZK 476 sub-machine gun—blowback operated, with a bolt which "tele-scopes" over the barrel to allow a surprisingly long barrel in a very compact weapon. To make the Uzi handier yet, it was later issued with a folding metal stock. So impressed were other nations with Major Gal's brainchild that the Uzi is now supplied to several European and South American countries, largely through a licensing arrangement with Fabrique Nationale in Belgium. On the list of Uzi buyers is a former supplier of Israel—West Germany!

Israel came out on top in the 1956 warring with Egypt, acquiring more practical knowledge of her small arms in the process, and decided to take another step towards the West by standardizing the 7.62 mm. NATO cartridge and adopting the FAL rifle made by FN. The Uzi was modi-(Continued on page 64)



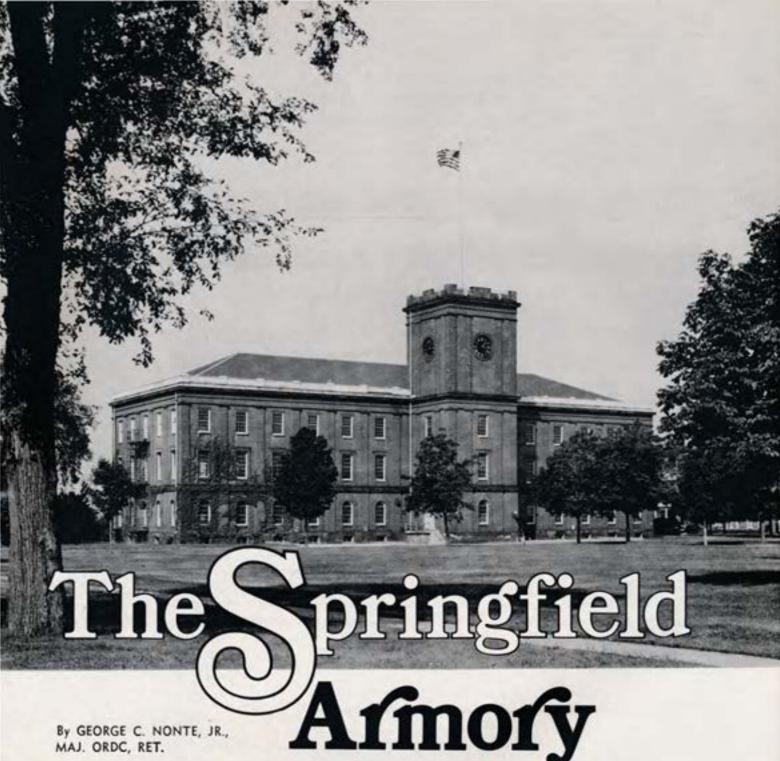


Above: Egyptian 7.92 Hakim rifle copied from the Ljungman system.





Above: FN Type 1949 (left), and the FN FAL (7.62). Left: This mother is fully armed while hanging the wash. On her hip is a Webley and the family rifle is the British Enfield S.M.L.E.



MAJ. ORDC, RET.

IN THE YEAR 1777, a National Armory was established by General George Washington to support the infant Republic's Revolutionary War activities. The site chosen was at Springfield, Massachusetts, because of availability of skilled artisans, plentiful water power, and other advantages. Just 11 years short of 2 centuries later, Springfield Armory, as it became known, ceased to exist as the center of military small arms development in this Nation.

The Armory at first produced only paper musket cartridges and functioned as a quartermaster depot and recruiting station. But by 1795, it had become active in actual production of flintlock muskets. From that time onward, well into the Vietnamese War, it continuously developed, tested, and produced all manner of small arms for our military establishment. In fact, all of our standard military rifles were designed and produced there with the single exception of the current M16 .223 (5.56mm) rifle-as were many other weapons.

Through both the lean and the fat years, Springfield Armory preserved a hard core of those skilled artisans so essential to develop and produce the weapons of war to which we must ever turn when diplomacy and reason fail. With that repository of vast knowledge and skills that cannot be committed to paper now scattered to the four winds, methinks a time will come ere not long when the economists who forced the closing of this venerable establishment will at least privately wish they hadn't. But, the Armory itself is not the subject of this dissertation. In

1871, the Commanding Officer requested and was granted from the U. S. War Department authority to establish a Museum for the purpose of preserving weapons and accoutrements for future reference and study. The astuteness of that move has never been questioned—for it is well known and accepted that the most important single factor in development of new weapons is the study of the old.

Fortunately, the Museum was established at a time when U. S. Army officers, including the Chief of Ordnance, had acquired vast collections of Civil War weapons and related items. These gentlemen magnanimously donated thousands of items to the Museum. Those donations formed a nucleus around which was built what has been for many years the finest collection of Civil War Militaria to be found. During the decades to follow, thousands of items were added to the Museum's inventory directly from the duty gatherings of a century's armory operations. Of particular interest among the acquisitions of the late 13th Century were hundreds of pieces selected by the Chief of Ordnance from the thousands of weapons displayed at the 1876 Philadelphia Centennial Exposition.

Weapons material of all sorts has continued to flow from many sources into the Springfield Armory Museum until this day. At least one of virtually every item captured from the enemy in major wars and various police actions throughout the world was shipped to Springfield to further enhance the collection. Retired army officers have often bequeathed their private collections to the Museum. In this manner, weapons from the Mexican War, Indian Wars, Spanish American War, Boxer Rebellion, and countless other encounters were acquired.

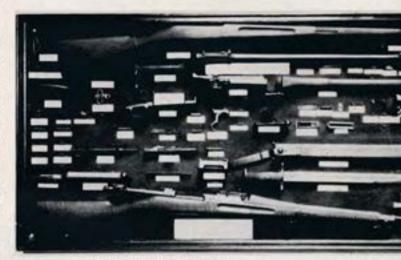
At the end of WWI, a particularly valuable addition was acquired—the entire collection of Captain Mehun. During that war, Mehun had established a military museum in France near the major battlefields. At the end of that conflict, his massive and comprehensive collection was shipped en toto to Springfield.

As time went by, the Museum became more and more devoted to research. Weapons were made available to engineers and inventors who could draw them out for study in much the same manner as we pick up a book at the local library. In order to make as much of the World's armament as possible available for study, the U. S. Army—through military attaches, missions, and agents of various sorts—kept up a constant flow of the latest foreign developments to the Armory. From WWII onward, this effort was, if anything, accelerated.

During the three years less than a century that the Museum was operated as an official U. S. Army establishment, various portions of its vast collection were displayed for public viewing. And, with proper preparation, an individual collector, designer, engineer, etc., could make arrangements for detailed study of individual items not publicly displayed. Consequently, when it became known several years ago that the Armory would close forever, arms students and collectors throughout the Nation expressed grave concern over the possible dismemberment and loss of so vast and complete a collection of weaponry. The mere thought that thousands of items might even conceivably be regarded as surplus government property and be destroyed in accordance with certain Army Regulations was enough to give any serious student a case of the quivering fantods.

The upshot of this concern was that prominent citizens in the Springfield, Massachusetts, business community es-





Above: Model 1903 Springfield display and all of it's parts.



Above: Curator Tom Hall and the M1862 .58 Rim Fire Gatling Gun.





Left: A view of one of the conference rooms with a number of displays in it. Left below: The "organ of muskets" still remains after renovation of building.

tablished the "Springfield Armory Museum Inc.," a nonprofit organization with the avowed purpose of retaining the entire collecton for its historical and research value and for its not inconsiderable potential as a tourist attraction.

The Department of Defense deeded 5.2 acres of land and 2 buildings to house the collection which was, in turn, donated to the City of Springfield by the Chief, Military History, U. S. Army.

Retained as Director of the "New" Springfield Armory Museum was Tom Wallace, employed by the U. S. Army for many years as civilian curator of the original museum. Tom is one of the people who was and is most concerned with the possible loss or dismemberment of the fabulous Springfield collection,

In spite of the vigorous efforts by Wallace and Springfield citizens, the future of the collection and, indeed, the Museum as a whole is not vet entirely assured. It all boils down to a matter of money. The initial funding requirement of \$650,000 is lacking by a considerable amount. Without those funds, it cannot yet be said that we will have a permanent public museum containing this vast collection. I cannot emphasize too strongly the value of the collection, and of free access to it, to the weapons collectors and designers of both today and the future. Small arms designers might very well be saved years of testing and research simply by being able to go to this one central location and study countless weapons mechanisms. The serious collector might also save thousands of dollars by being able to study in one place authentic examples of hundreds of the world's rarest guns, edged weapons, and accessories. In addition to these values, the collection has an intrinsic worth almost beyond calculation. It contains hundreds of individual items, each of which might well bring several thousand dollars on the open market. And, though the collection is basically military in nature, it should be kept in mind that until very recent times most sporting arms were simply developments of mechanisms proposed for or adopted as military arms. Also, the majority of the basic sporting arms designs have seen military service in quantity during our various wars and are, therefore, represented in this collection.

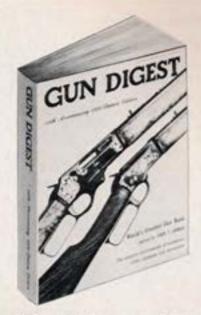
It is because of this that I personally, and Guns Magazine collectively, feel that we cannot urge too strongly that all who have any interest in firearms participate to some degree in supporting the Springfield Armory Museum and insuring its place in the future.

This support need not be costly. Memberships in the Springfield Armory Museum Society are available for a very nominal fee. Annual membership costs \$5.00, and an additional \$5.00 will make you a Charter Member. Life memberships are priced at \$100, \$105 for Charter Life Membership. Or, if you are plentifully supplied with funds and truly seriously interested in preserving and promoting this one central repository of weaponry, you may become a Patron for (Continued on page 62)

## AMERICAN REVOLVER SAFETIES

By DeWITT E. SELL, Ph.D.





This article is excerpted from the all-new 24th edition of the Gun Digest for 1970. It is but one of the more than 60 feature articles covering every gun and shooting interest.

The 1970 Gun Digest is now available; from your dealer, or direct from Gun Digest Assn., 4540 W. Madison Street, Chicago, Ill. 60624. Price 84.95.

IN ALL LIKELIHOOD, the term "safety" in reference to handguns is exclusively associated with semi-automatic pistols by the majority of firearms publications readers. Safeties have been a standard feature on virtually all autoloading handguns (there are a few exceptions) from the inception of their history. This has not been nearly so true in the case of revolvers, yet a number of safety devices have been produced for them. They were intended not only to render their operation safer for the owner-shooter but also to prevent their being accidentally discharged.

This article will review a variety of safeties that have been incorporated on American cartridge revolvers since 1858—the year following Smith & Wesson's introduction of their Model No. 1, or Seven Shooter, revolver chambered for their 22-cal, rimfire short, which launched the cartridge era in American handgun history. As its name suggested, the cylinder of this revolver contained seven chambers.

The Smith & Wesson No. 1 had no safety feature whatever. The only certain manner in which it could be carried safely was with the hammer nose at rest opposite an empty chamber, This, in effect, reduced its fire-power potential to six shots. Although "fathers" of the American cartridge handgun industry, Smith & Wesson failed to provide a safety-notch on their first three commercially produced rimfire revolvers-their No. 1 (3 issues), No. 2, and No. 11/2 (2 issues). They rationalized this omission by the following statement in their loading directions: "A half-bent is entirely dispensed with, as it is found to be much more convenient and safe to carry the hammer resting between two cartridges; when so placed it is impossible to be accidentally discharged." Smith & Wesson did not alter their stand in this respect until 1870, when they provided a safety notch on their No. 3 American model.

#### Allen & Wheelock

In 1858, Allen & Wheelock marketed cartridge revolvers in calibers 22 RF (rimfire) and 32 RF based on Ethan Allen's patents of September 7 and November 9 of that year. These side-hammer models—infringements of the Rollin White patent—featured a safety notch for the hammer. By drawing the hammer back slightly, a notch in the sear retained the hammer's forward movement and kept its nose clear of any cartridge head which might be lined up in front of it.

This safety notch is sometimes crroneously referred to as a "half-cock," although seldom located at the midpoint of the hammer's arc. Some later revolvers incorporated both a safety notch and a half-cock notch, as in Colt's Single Action Army model, Finger pressure on the trigger will not release the hammer from the safety notch, thus affording a significant measure of safety from unintentional discharge even when all cylinder chambers are loaded. This safety notch remains effective throughout the remaining distance of the hammer's arc until it reaches the position of full cock. Should the thumb slip off the hammer while drawing it back to full cock, the hammer's forward fall will be arrested by the safety notch.

While this safety notch apparently was not a patented feature, it seems unequivocal that the Allen & Wheelock side-hammer models of 1858 were the first American cartridge revolvers to employ this safety principle,

#### Hopkins & Allen

A "safety cylinder" patented by Henry H. Hopkins on April 27, 1875 (Patent No. 162.475) was incorporated in a number of the Hopkins & Allen models and fully exploited via advertising. This safety cylinder featured raised sections on the periphery of the cylinder's base between each chamber: these were milled through in the center to provide a secure resting place for the hammer nose. The thickness of these sections approximated that of the cartridge rims and they were virtually flush with the recoil shield, thus providing the secondary gain of increased stability during the cylinder's revolution. Despite the fact that Hopkins & Allen described this cylinder as foolproof against accidental discharge, they nevertheless provided a safety notch on the sear. The engraved Hopkins & Allen XL 3 model illustrated has both the patented safety cylinder and a safety notch.

Hopkins & Allen made their most noteworthy contribution to revolver safety in the perfecting of their Triple Action Safety Police revolver. Patented August 21, 1906, this revolver marked the acme of this firm's handgun development and was, if the company's subsequent catalogs are to be given credence, phenomenally successful. As Hopkins & Allen contended, their triple action revolver was not, like other "safety" revolvers, an ordinary double action with safety appliances. It embodied its safety principle

in its basic construction and action, The piece is cocked, as in other double action revolvers, by thumb or pulling the trigger (first action); upon release of sear by trigger, the hammer falls directly against the floating firing pin (second action). Here the similarity to other double action revolvers, whose action stops with the drive of the hammer, ends. Upon releasing the trigger of the Safety Police, the hammer rises via an eccentric cam to rest flush against the solid steel frame above the firing pin (third action). Neither blows against the hammer nor the snapping of the hammer, accidental or otherwise, can affect the firing pin or discharge a cartridge,

#### Smith & Wesson

Daniel B. Wesson's and James H. Bullard's patent No. 198,228 of December 18, 1877, covered specifications for a "rebounding hammer." The first revolver to utilize this feature was Smith & Wesson's New Model 32 (also known as No. 11/2, New Model) which was introduced during March, 1878. This was the firm's sole single action model chambered for their .32 S&W centerfire cartridge. An advertisement of the New Model 32 appearing in July, 1878, described the rebounding hammer feature as follows: "These arms are provided with simple automatic rebounding locks, so arranged as to prevent the point of the hammer coming in contact with the cartridge at any time except at the instant of intentional discharge. By this means, accidents arising from a chance blow upon the hammer are absolutely prevented. The value of this improvement will be readily recognized,"

The first 500 of the New Model 32s produced also had a safety notch, but this feature was thereafter eliminated as superfluous and confusing in conjunction with the rebounding hammer. The rebounding lock cannot be released by the trigger before the hammer is drawn back to full cock. Rebounding hammer locks were incorporated in all Smith & Wesson revolvers developed after the New Model 32. It is impossible to discharge modern Smith & Wesson revolvers unless the trigger pull is completed intentionally, as the hammer is otherwise prevented from full forward movement by two safeties—the rebound slide upon which the lower end of the hammer rests and the solid steel block which lies between the hammer and the frame just below the hammer nose,

In 1887, Smith & Wesson brought out their initial Safety Hammerless cartridge revolver-also known as the New Departure and unofficially, to collectors, as the Lemon Squeezer. The Safety Hammerless is actually a double action revolver whose internal hammer is prevented from being cocked by the trigger unless the lever projecting from the backstrap is squeezed in when gripping the arm. This safety lever was another ingenious invention of Daniel B. Wesson and was patented in his name. The safety lever locks the hammer in its rebound position until grasped firmly and held flush with the backstrap. No blow nor fall can occasion discharge, The action has a somewhat long and heavy trigger pull but is unique in that, while double action, a distinct pause occurs just prior to let-off of the hammer in full cock position. This action allows the accuracy and delib-



erate let-off characteristic of the single action and again is contributory to safety. Smith & Wesson stated in their 85th Anniversary catalog in reference to the Safety Hammerless that, "Another most valuable feature obtained by the long and firm trigger pull required—combined with the grip—is that a child cannot discharge the arm, the distance to the trigger is too great and the strength required too much for its hand."

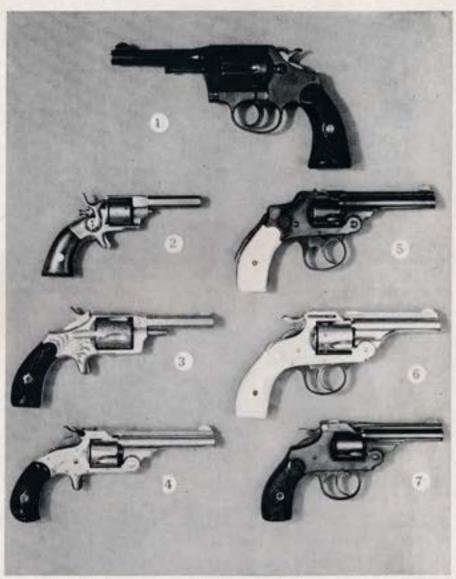
While the Smith & Wesson Safety Hammerless revolvers were discontinued about the time the United States entered World War II, postwar demand for a grip safety hammerless revolver induced Smith & Wesson to revive this feature in their Centennial model, introduced in 1952. The Safety Hammerless was of topbreak construction—the last S&W of that design to remain in production—while the Centennial is of solid frame construction with swing out-cylinder.

#### Iver Johnson

One can state categorically that no firearms manufacturer has given more prominence to the concept of revolver safety than has Iver Johnson's Arms & Cycle Works. For more than half a century (1392-1950) this firm plugged its "Hammer the Hammer" safety feature until it became virtually a household slogan.

Iver Johnson introduced his Safety Automatic revolvers in calibers 32 S&W and .38 S&W in 1892, adding .22 RF in 1895. This was the first model to employ the Hammer the Hammer safety. Its principle involved incorporation of a "safety lever" between the hammer and the spring-actuated firing pin located in the frame. The safety lever and pawl are hinged together at their bases, fitted within the frame just to the rear of the trigger. and they rise together as the trigger is pulled. The hammer nose is cut away so that when at rest it lies flush against the frame above the firing pin -hence it can literally be hammered upon without fear of detonating a cartridge. However, when the trigger is fully pulled, it holds the safety lever up so that it is interpreted between the hammer and the firing pin and transmits the falling hammer's force to effect ignition. With the release of the trigger, the safety lever again drops below the firing pin with the hammer nose at rest against solid steel above (Continued on page 49)





Colt Police Positive Spec., .32-20.
 Allen & Wheelock M1858, .22 RF.
 Hopkins & Allen XL-3 with safety cylinder, .32 RF.
 S&W New Model
 .32 S&W.
 S&W Model 32 Safety Hammerless, 2nd issue, .32 S&W.
 Hopkins & Allen Triple Action Safety Police, .32 S&W.
 Iver Johnson Safety Automatic Hammer Model, .32 S&W.

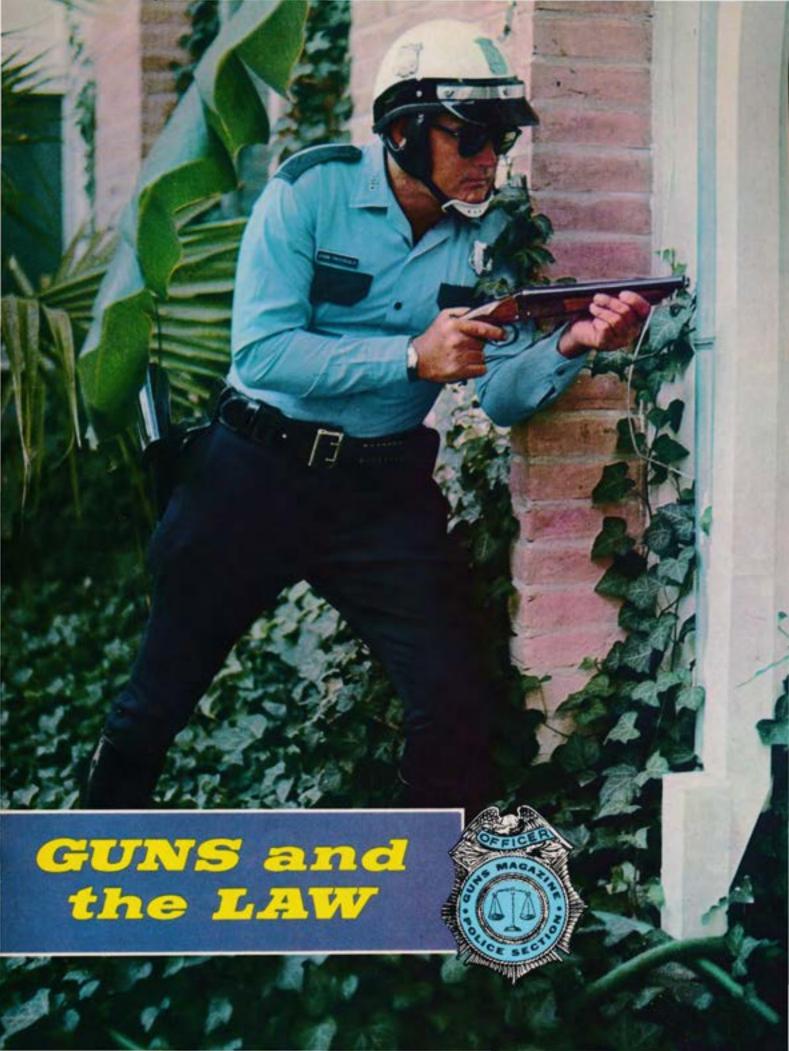
# the return of the AUTO-BURGLAR

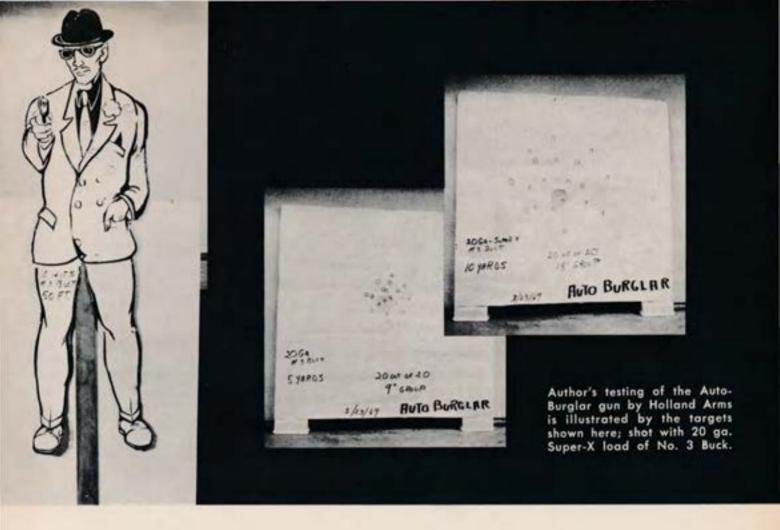


IF YOU ARE a veteran, gray-haired policeman, the chances are the Auto-Burglar gun will be familiar to you and you probably speak of it with respect and reverence. If you are a collector of weapons, it is likely considered a choice item in the rare and unusual arms-category. As an equalizer "among small close range weapons" it has few peers, providing shotgun fire power in handgun size, Many a dangerous armed thug, in times past, has meekly surrendered after looking into the twin muzzles of an Auto-Burglar gun, Now, modern day criminal counterparts will also have this same dubious privilege. To this day, sometimes in defiance of Federal regulations, many western peace officers still carry the Ithaca Auto-Burglar gun on both routine and dangerous assignments, During the prohibition and gangster period of the 20's and 30's the Ithaca Auto-Burglar gun was considered a basic law enforcement close range arm, Unfortunately, the criminal element, during the "Bonnie and Clyde" generation also had a distinct fondness for this weapon.

The Ithaca Gun Company manufactured the twin barrel, 20 gauge Auto-Burglar gun with slight model variations during the entire prohibition, gangster era, but production was discontinued in 1932 after the passage of the Federal Firearms Act. This act (updated by recent legislation) was aimed at forbidding public sale and denying the criminal certain weapons such as sub-machine guns, silencers, sawed off shotguns, and rifles with barrels less than 18" long, and handguns with shoulder stocks, etc. The lack of success of this Federal legislation in denying the criminal these weapons is well known, even if not recognized by many liberal, auto-gun "Bleeding Hearts." Quantities of sawed off shotguns, sub-machine guns, and other items long forbidden under the original act are still in the hands of the enemies of law and order. In all probability, a few Ithaca Auto-Burglar guns are the "hole cards" of a few dangerous criminals today.

A recent request made to the Ithaca factory did not result in any indication as to number of Auto-Burglar guns manufactured. In all probability it was limited in comparison to other models of sporting shotguns produced. However, there are enough of them around in collections, and in the hands of private individuals, so that knowledgeable people in the gun world still recognize and value this weapon as representative of one of the more criminally violent eras of American history, The last recollection the writer has of the original Auto-Burglar gun was during World War II, It should be remembered that in the early period of World War II the American public and sportsmen shipped thousands of all types of arms to England to help rearm that nation and the homeguards, after the disastrous British Army defeat and loss of its arms at Dunkirk. It should also be noted that the British had previ-





ously legislated away the right of civilians to own firearms. During this period, all remaining Ithaca stocks of Auto-Burglar guns, illegal for sale to the general public, were shipped to "John Bull" as part of this emergency defense effort. I do not recollect actually seeing any of these weapons in the hands of the British homeguards, or other units, but of a certainty there are a number still concealed somewhere in Britain, bedging against a future enemy invasion, or armed criminal violence.

The original Auto-Burglar gun was not a gimmick, it was a practical police weapon for the time and era. Its potential value to law enforcement during the period ahead and the violent armed crime that is being experienced, can also be equally great. It is a relatively light, easily operated, dependable shotgun of magnum handgun size that can add greatly to the firepower that law enforcement officers are continually seeking in their battle with criminal elements. The escalating violent crime rate of this decade coupled with the increased amount of police ambush, sniping, and general armed criminal violence should make it a welcome addition to police armament in the continuing fight for a stable and law abiding society.

The present availability of the Auto-Burglar gun to law enforcement is due to the efforts of Mr. R. Bruce McCarty, president of The Holland Firearms Company. After a considerable amount of time thrashing out Federal ownership requirements, complications and regulations, it is now possible for police agencies and full time, individual, police officers to purchase this weapon. As the weapon, due to its nature and size, falls under the Federal Firearms Act, it is subject to control and distribution authorization by the U. S. Treasury Department. It is not available for sale to individuals or collectors.

Most police-criminal armed confrontations take place at limited ranges, in buildings, from cars, and in confined areas. Recently the New York City Police Department made a survey relative to indoor-outdoor crime incidents and found that 60% took place indoors. Records of the New York Department also show that in the cases of 180 officers killed while apprehending suspects, the combat range was less than 30 feet. FBI studies of 806 cases showed that 87% of police officer shootings took place at similar short ranges.

The Holland version of the Auto-Burglar is ideal for use in police stakeouts, when concealment of the weapon is often essential, for building search, dangerous subject apprehension, and all other types of police activity where portability, maneuverability, cover and ease of carrying the weapon is of importance. A ring—enabling a strap, or thong, to be attached so it can be hung from the shoulder under a coat—is located on the left side of the receiver. This is an excellent weapon for motorcycle patrolmen who can carry it in their saddle bags or in a special scabbard.

The psychological deterrent effect and impact on the criminal looking into the twin bores of any double barrel shotgun, including the Auto-Burglar, is very great. Veteran police officers over the years have relied heavily on the subduing and restraining effect of the muzzle of a double barrel shotgun to stop criminal acts, and in the capture of dangerous, armed suspects. As one old time, grizzled



Western sheriff once told me: "Colts may make us equal but my double Greener makes me superior."

An ordinary riot shotgun has an approximate overall length of 40 inches. Most models are merely cut down versions of sporting weapons with 20" barrels. The overall length of the Auto-Burglar is only 17 inches. Loaded, it weighs 4 lbs, 10 oz. or about the same as a Walker Colt. Because most police combat takes places at ranges less than 20 yards, this means that ease of handling and maneuver are also vital elements of success. Under these conditions this arm is ideal due to the combination of superior fire power, hit capability, psychological pressure and instant employment, possible.

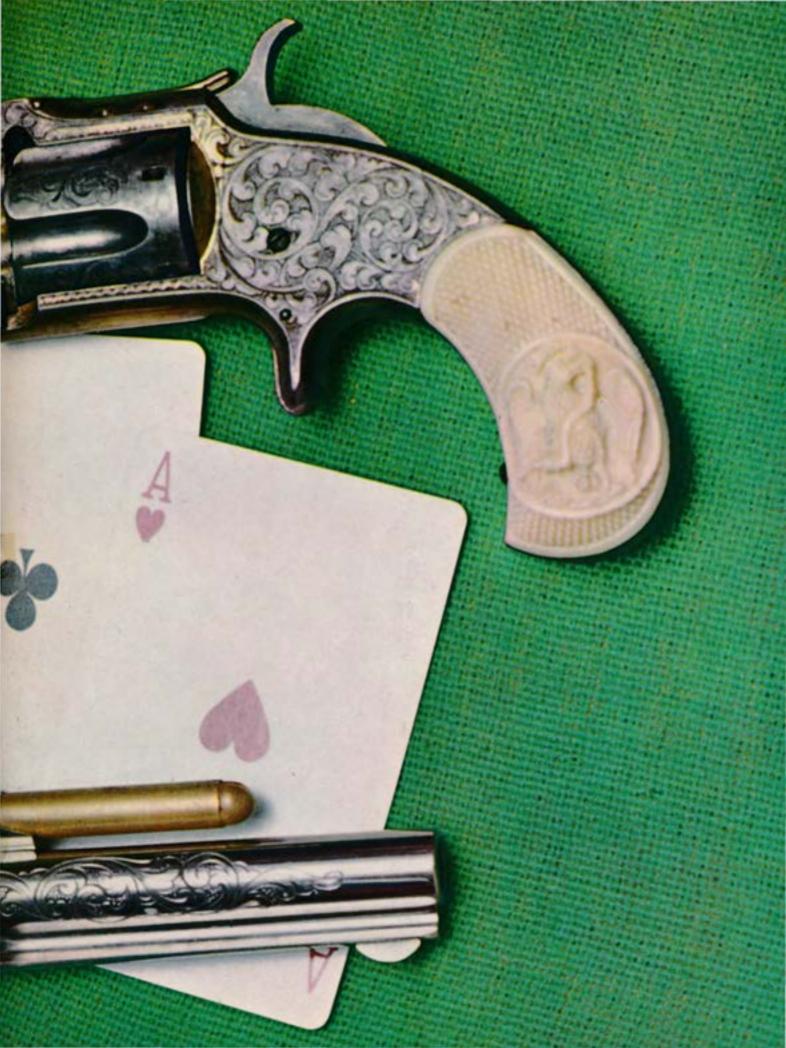
The Holland version of the auto-burglar will safely handle the modern 20 gauge, 3" magnum shell, that contains the equivalent 1½ oz. load of the standard 12 gauge riot shotshell. Commercial 20 gauge, 3" magnum rounds are available in 2, 4, 6, 7½ shot sizes; 1¼ ounces of 00 or #4 buckshot can be hand loaded in the 3" magnum shell, if so desired. Remington, Winchester and the other major ammunition companies load the 2¾", 20 gauge H.V. shell with 20 pellets of number 3 buckshot (¼" diameter). In the author's opinion, this "store bought" load and the 20 gauge, ¾ ounce, rifled slug, also available over the counter, are all the average officer needs for the combat ranges of the city street. However, the heavier 3" magnum load is available, and useable, if required for some special purpose.

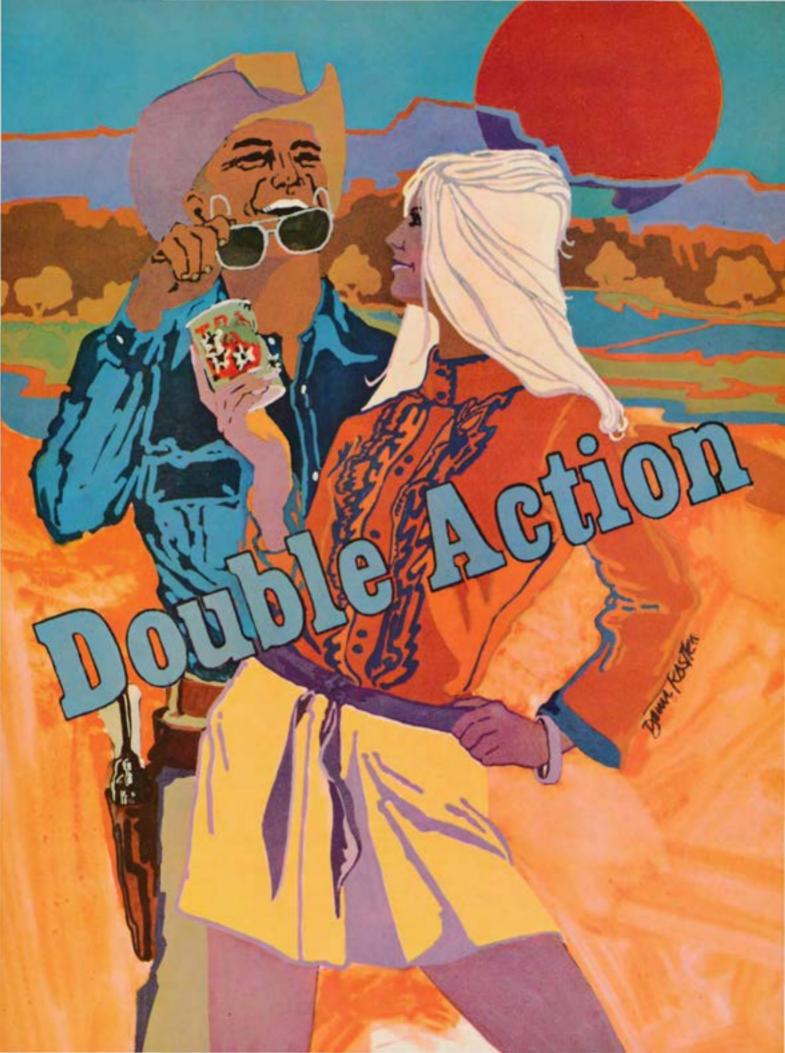
Although patterns will vary with different weapons and ammunition, the test weapon (Continued on page 58)

# COLOR PRINT (Next Page)

Pair of .32 RF Smith & Wesson revolvers with classic engraving and special ivory grips. Photo by Edward McKin; from the collection of Bill Williamson.







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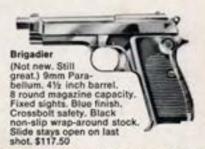
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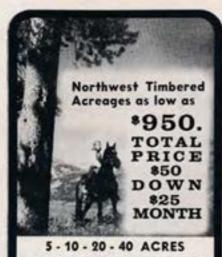
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# PULL!

# By DICK MILLER

TRAPSHOOTING received another big boost in Northern California this summer. The trap sport, already thriving in the Golden State, gained more adherents and proponents when a Stockton sporting goods jobber hit on the idea of conducting a trap event in connection with a dealer show.

Sporting goods dealers and their families were hosted by Stephens Marine at the Waterloo-Stockton Gun Club's fine layout, for the usual exposure to sporting goods items, and the opportunity to talk with representatives of the various manufacturers. But, in addition to the usual trade show activity, every dealer and his family had the opportunity to fire at least one round of trap, under competent supervision. And, just before the firing started, after a sit-down luncheon, all the would-be target smashers saw how it was done via Lee Braun's great instructional film.

Every dealer who attended the show/trapshoot sold firearms in his store, but for many of them, this was the first exposure to the clay target games. Many a dealer was heard to exclaim "Why hadn't I tried this before!" Not only did the dealer learn what motivated many of his customers, he learned something of the lure of the clay target sports, and became an on-the-spot ambassador for trap in his own community. And, several squads of wives and children learned for themselves how much fun it is to smash a clay target. This exposure helped the clay target picture in California, and also gave the families of the dealer more understanding of what made shooters tick, and of the business which provided the family bread

Pull! extends a hearty salute to Stephens Marine, to general manager Tom Tippett, his lovely wife and family, and to the whole crew who made the Stephens Marine-Waterloo/Stockton Gun Club Invitational Trap Shoot the great success that it was, I sincerely hope the idea bears fruit in other parts of the country.

United States Army and Air Force clay target gunners were effective ambassadors for the clay target sports during a two-month swing in Europe this summer.

Jim Beck and Larry Tiner of the Army's Ft. Benning AMU team made a clean sweep of the Grand Prix of Brno, in Czechoslovakia. Beck fired a 197 for top honors in the trap event. His team mates, Gene Lumsden, Larry Stafford, and Jim Colombo grabbed off second, third and fourth places with scores of 196, 195, and 194. The three-man team of Beck, Lumsden, and Eddy Leavendusky grabbed the team title with a sizzling 584x600.

Tiner had to turn back his own team-mate Anthony Rossetti in a shoot-off for his skeet victory. Coach Tom Gilmore took third behind his star pupils, and the Army team added the team championship to its laurels.

The Army and Air Force had to share the booty at the Grand Prix in Berne, Switzerland. Leavendusky of the Army topped the trap entries, and his buddy Larry Stafford was runner-up. Third place in the trap program went to the Air Force and Ken Robertson.

As they do so well in real combat, the Army and Air Force joined in fielding a team to win the Nations International Team Match. Tom Garrigus of the Air Force joined Army men Lumsden, Beck, and Leavendusky. The U. S. winning score was 766x800. France was second with 744x800.

The Yank gunners received a temporary set-back in the games at Copenhagen, Denmark, leading one to wonder what was rotting there. First, second, and third in the individual skeet matches went to shooters from Sweden and Denmark. In the team matches, the United States had to settle for fifth, behind Sweden #1, Poland, Denmark #2, and Denmark #1.

More glitter has been added to swinging Las Vegas, Nevada. The Las Vegas jackpot program now reaches out to the trapgumer. Ten thousand dollars is up for grabs every six weeks at the Sahara-Mint Gun Club.

The special prize goes to any shooter breaking 200 handicap targets in consecutive shoots in the club's new program of bi-weekly jackpot shoots (are you reading me-George Reppas? Reppas, a Haywood sporting goods dealer, recently shattered the hundred in Reno from 27 yards. All you have to do now, George, is to break them back-to-back). In addition to the bi-weekly jackpot shoots, a number of ATA registered shoots are scheduled by the Sahara-Mint.

The gun club is open daily except Monday, with top-notcher Howard Kaster in charge, and is located on the Tonopah Highway, twelve miles

north of Las Vegas.

The Sahara-Mint Gun Club is also host to the Second Annual Del Webb Fall Trapshooting Tournament, Sept. 16-21, with over \$15,000 in guaranteed purses. Over 500 entries are expected.

Trapshooters at Harold's Trapshooting Club in Reno, Nevada, would give you odds of ten-to-one, during the 1969 Golden West Grand American Handicap Championship, that women have been liberated, enfranchised, and emancipated. This was after Susan Nattrass, an 18-year-old coed from Edmonton, Alberta, had turned back five adult males in a shoot-off to win the biggest prize in the Golden West Grand. Susan fired a 99 from 21½ yards to gain the shoot-off, then ground out 25 straight in the first round of the shoot-off.

She began the week as a twenty yard gunner, but moved farther from her work as a result of a 191x200 at handicap birds in a preliminary event. Miss Nattrass, the daughter of a fine Canadian shooter who has represented his country in International Events, Floyd Nattrass, is a Physical Education major at the University of Alberta, She added the Ladies HOA trophy to the handicap win, with a score of 945x100.

With a few exceptions, the Golden West event was a week for women and children, proving that trap is indeed a family sport. Thirteen-yearold Joe Ljutic followed the script when he fired a 99, then supported the 99 with a 25 straight in a shoot-off, also with five adults, to win the preliminary handicap. Joe is the son of the shooting Ljuties, Nadine and Al, from Yakima, Washington, who, like Floyd Nattrass, proved that they are good teachers as well as good shooters (Nadine took home a couple of trophies, which is not exactly news. Al has won his share over the years, which is also not news).

Not all the shots heard from college campuses this year were fired by rioting students or harassed law enforcement officers. It is a far better thing I report, that 85 students from 20 colleges and universities competed in a national collegiate trap and skeet tournament, hosted by the University of Iowa, The tournament was sponsored by the Association of College Unions International (ACU-I) with a big assist from my old compadre, Jim Dee, director of shooting development for Winchester-Western. Tournament director was Robert E. Froeschle, University of Iowa recreations manager, with Uncle Jim acting as a consultant, W-W provided all the prizes and trophies, including two shotguns. A preliminary program conducted last year among schools in Iowa, South Dakota, North Dakota, Minnesota, and Nebraska pointed the way to this first intercollegiate and inter-sectional clay target tournament.

Dale Reiter, a freshman at Northern Iowa Community College, turned back Tom Gregg of The University of Iowa in a shoot-off to win the individual trap trophy. Reiter smashed 50 straight, after the dead heat at 97x100 in regulation distance.

University of Connecticut's Mike Pikula topped the individual skeet competition with a score of 96.4. Glenn Vickery of the Air Force Academy was runner-up, with 95.4. Karen Lang, a freshman at Iowa State College, took the distaff honors, Ruth Johnson, from Edinboro State College, Pennsylvania, was runner-up. Team trap honors went to host University of Iowa, with a score of 456.9x500. The Air Force Academy team captured skeet team laurels for their 444.2, An all-Iowa team showed the way in an International skeet event with a score of 205x250.

The top ten individuals from this tournament have been invited by the NRA to compete in the U. S. International shooting championships this month in Phoenix, Arizona, which serve as preliminaries to the World Championships in Phoenix next year.

Mr. Froeschele reports that more than sixty schools have expressed interest in entering next year's collegiate tournament, and it is expected that the tournament will soon be recognized as a major collegiate event by the NCAA.

Detractors of today's college students claim that the students lack real purpose and discipline. These detractors should join whole-heartedly in promoting the collegiate clay target championships. Very few activities open to the student require as much singleness of purpose and discipline as the shooting sports. And, the skills learned here can last a lifetime, unlike some of the contact sports, which end with the diploma.



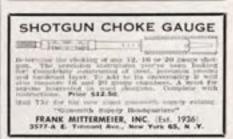
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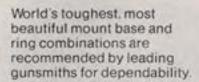
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# HANDLOADING BENCH

(Continued from page 13)

range would take care of the magnums. Cartridges in the middle could be loaded with extra-light bullets by using the next faster powder; extraheavy bullets by using the next slower powder. Ample evidence that this approach is entirely practical is found in the fact that Hercules produces only three powders-Re 7, Re 11, and Re 21 to cover the entire rifle handloading field. Reasonable performance can be given the entire range of calibers with powders in the middle range-however, while those powders at either end of the range would have considerable utility in the middle class, they would be of little use if their positions were reversed.

Virtually the same situation exists in regard to both pistol and shotgun cartridges. Three different powders, fast, medium, and slow burning within that particular pressure range will cover the field satisfactorily. And, again, the powder lying in the middle of the range will be the most versatile and those at either end may not be interchanged.

308 Win, -----

.300 Win, Mag. ----- 150-gr. bullet -----

30-06

Consequently, it should be readily apparent that there is no single propellent powder which can be satisfactorily used for full-charge loads across the board. If you are willing to accept some limitations in performance at both the upper and lower ends of the caliber range, you can get by with a single powder each for pistol, rifle, and shotshell use. In my own personal experience-which may not necessarily be in complete agreement with that of others-I have found that the following three powders will enable one to cover the broadest range of calibers with acceptable performance levels:

PISTOL: Hercules Unique, Unique performs quite well in the .38 Special Wadcutter performance range and is capable of duplicating factory-load performance at acceptable pressures in cartridges as small as the .32 Smith & Wesson, On the other hand, it may be used for relatively heavy loads which fall only slightly short of actual factory-load specifications in the .357 and .41 Magnums, It does somewhat

# GENERAL PURPOSE POWDERS LOADING DATA

ı	LOADING DATA		
	UNIQUE (Pistol)		
	32 S&W     98-gr. lead     3.5-gr.     8       .38 Spcl.     148-gr. WC     3.5-gr.     7       .38 Spcl.     158-gr. lead     5.1-gr.     9       .357 Mag.     110-gr. JHP S. V.     9.0-gr.     16       .357 Mag.     125-gr. JSP     8.5-gr.     15       .41 Mag.     200-gr. lead     7.5-gr.     9       .41 Mag.     220-gr. JSP     10.0-gr.     11       .45 Colt.     250-gr. lead     7.0-gr.     7       .45 Colt.     250-gr. lead     10.5-gr.     10	730 960 513 515 940 140 750	fps fps fps fps fps fps fps
	DuPONT PB (Shotshell) Plastic cases		
	12 ga.	200 265 135 145 100 105	fps fps fps fps fps
	Re 11 (Rifle)		
	222 Rem.     50-gr. bullet     23.0-gr.     32       243 Win.     80-gr. bullet     35.0-gr.     31       264 Win.     100-gr. bullet     46.0-gr.     32       7mm Mauser     139-gr. bullet     41.0-gr.     28       270 Win.     130-gr. bullet     45.0-gr.     29       308 Win.     150-gr. bullet     39.0-gr.     26       30-06     150-gr. bullet     43.0-gr.     27       300 Win. Mag.     150-gr. bullet     58.0-gr.     31       35 Rem.     200-gr. bullet     34.0-gr.     22	180 220 300 300 500 70 40	fps fps fps fps fps fps fps
	IMR 4320 (Rifle)		
	. 222 Rem	00	fps

150-gr. bullet -----

150-gr. bullet -----

2830 fps

2850 fps

48.5-gr. -----

52.5-gr.

less well in .44 Magnum.

SHOT SHELL: DuPont PB will perform satisfactorily at target and field load level in all gauges except in .410. It is not, however, suitable for the 3inch magnum loads.

RIFLE: Here, a single powder offers less complete coverage than in the other two categories; yet, either Hercules Re 11 or IMR4320 will do the job remarkably well if you can accept some reduction in velocity at the two extreme ends of the scale.

Consequently, it is easy to see that if one loads all three types of cartridges, the minimum number of powders required is three. If you are a perfectionist or faddist who seeks particular nuances of performance and unusually high or low velocities and bullet weights, additional powders are required. It is simply impossible to produce even a single powder that will match factory ballistics with safe pressures completely across any one of the categories.

To illustrate the versatility of multiple-purpose powders in the middle of each range we have included the accompanying loading data chart. Note that the maximum versatility appears to occur in the pistol range.

The handloader who asks for significantly more velocity than that produced by factory loads seeks the impossible. The more modern cartridges are loaded to the limit by the factories, often with special powders not available to the handloader—as in the case of the 7mm Remington Magnum, which cannot be up-graded with any available powders. Older cartridges such as the 8mm about which our example writer asks can be loaded to somewhat higher than factory velocity. Most loading data manuals contain such loads as are practical, and any attempt to exceed them is dangerous, Generally speaking, you cannot obtain (at safe pressure) greater velocity than that of the top loads listed in the manuals. No scribe such as this one can supply any magic formula to accomplish the impossible. When you're thinking about extrafast loads, check first in the published manuals-if they don't list what you want, it can't be achieved safely under normal conditions. You don't expect a Volkswagen to go 120 mph, so neither can you expect a mediumvelocity cartridge to produce magnum performance.

Incidentally, I'm planning a swing through Europe next Spring to visit a number of gun manufacturers and many of the fine private and public arms collections. Naturally, there are a few other things to be worked into the schedule to keep it from being all work. Should any of you readers be interested in joining me, some arrangement can be worked out. If enough are interested, we can probably come up with a pretty good deal. Drop me a line if you're interested.

# AMERICAN REVOLVER SAFETIES

(Continued from page 35)

the firing pin. In 1908, the Safety Automatic revolvers underwent major modification. Flat springs were dispensed with and the coil mainspring was fitted with an adjustable mainspring tension bar; also, ball and socket mainspring plunger and hammer contact with the safety lever were fashioned of vanadium steel.

A "safety trigger" is also found on some early Safety Automatic models. It consists of a hinged projection extend approximately half way down the front of the trigger proper. It must be drawn back flush with the trigger's surface in order to free the trigger for retraction. How this superfluous gadget provided an additional safety factor is an enigma to this writer, and apparently the manufacturer soon became disenchanted with this innovation as it was of short duration. Although the Safety Automatic revolvers were discontinued in 1950, Iver Johnson's retained the Hammer the Hammer safety feature on their Supershot Model 844 of the mid-50s and it was again revived on their current double action hammer revolver, the Model 67, Viking.

The venerable firm of Iver Johnson's was to make yet another contribution to revolver safety. Their patented "Flash Control" cylinder, introduced in 1954, is recessed at the front to provide a flange at the circumference for deflecting gases and possible lead shavings away from the shooter or any persons who may be standing in close proximity to the shooter's side or rear.

#### Colt

From 1905 on, several of Colt's model designations included the word "Positive;" e.g., Police Positive, This was a result of the Colt firm patenting in that year their "Positive Safety Lock," which they incorporated in



IVER JOHNSON'S Fitchburg, Mass.





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most of their revolvers and highlighted in their advertising from then on. They described this feature in the following words: "The expression 'You can't forget to make a Colt safe' has often been heard, due to the fact that all Colt double action revolvers are equipped with the Colt Positive Safety Lock-which makes accidental discharge absolutely impossible." (Author's note: The above statement became true after 1910, when the original Colt Double Action Model of 1877, with bird's-head grips, was discontinued). The Colt Positive Safety Lock consists of a solid bar of steel, 16s" thick, which automatically places itself between the hammer and the cartridge head, remaining in this position at all times except when the trigger is intentionally pulled to the extent that the hammer reaches, and is released from, full cock,

# Harrington & Richardson

Harrington & Richardson, who have been manufacturing handguns as well as shoulder arms since 1871, patented a unique (if a dubious merit) revolver safety which consisted of a casehardened cross-bar of oblong shape incorporated in the frame just above the trigger guard. When this cross-bar is pushed flush with the left side of the frame, the trigger cannot be pulled. Conversely, when the cross-bar is flush with the right side of the frame, the safety is nonfunctional. The patent date, May 22, 1917, is stamped on the left side of this cross-bar, which has been noted on both hammer (the Automatic Ejecting) and hammerless models, Inasmuch as models featuring this safety are seldom encountered, it is assumed that its employment was of short duration.

As late as 1959, Harrington & Richardson introduced yet another safety—their exclusive "Safety Lock," with key. Appearing initially on the Ultra Side-Kick model, it was also available optionally on the Guardsman model. This Safety Lock is incorporated in the bottom of the grip frame, a turn of the separate key rendering the action inoperable.

# Miscellaneous Safeties

Several other types of revolver safeties developed by minor manufacturers are worth noting. Maltby, Henley & Co., who apparently were distributors rather than manufacturers, marketed a hammerless revolver under their name which incorporated a tang safety at the top of the backstrap. This safety functioned in a manner analogous to the typical tang safety found on many shotguns—the trigger was locked when the knurled safety was moved forward; moving it rearward freed the trigger.

The Columbian New Safety Hammerless and the Parker Safety Hammerless revolvers also feature a tang safety identical to the one found on the Maltby, Henley referred to above, It can be assumed they were produced by the same manufacturer, inasmuch as both bear the date. (January 24, 1888), of a patent issued to John T. Smith of Rockfall, Connecticut, and both have black rubber grips embossed at their apex with three interlocking circles of floral design, which identifies them as handguns distributed by Maltby, Henley of New York, N.Y.

Corliss replaced Henley as a partner of Maltby during the '80s, the Metropolitan Police double action hammer revolver, which featured an odd type of safety, being marketed under the name of Maltby, Corliss & Co. An independent rear sight which slides back and forth on the flat topstrap serves a dual function as a safety. With the rear sight in its rearmost position, the hammer is blocked from retracting, rendering the action inert. When the rear sight is slid forward, the hammer is free to be cocked by thumb or finger pressure on the trigger.

The pertinence of either of these above described safeties—tang or siding rear sight—is obscure if their purpose was to prevent accidental discharge by a child or other unauthorized person, since their method of operation is readily disclosed via trial manipulation. Nevertheless, it appears that many manufacturers of revolvers during the closing decade of the last century and the opening decade of the present one were under competitive pressure to develop some gadget he could label a "safety" and publicly acclaim as such.

The Cody Thunderbird, a double action hammer revolver introduced in 1957, featured a thumb-safety located on the left side of its frame. This safety operated in a vertical plane. blocking trigger movement when in its "up" position and ineffectual when "down." The Cody was unique inasmuch as the original issues of this revolver were all aluminum with the exception of a rifled steel barrel liner and internal parts. Later issues were furnished with steel cylinders prior to their discontinuance in 1959. The Thunderbird was of top-break construction with cylinder counterbored and chambered for six 22 long rifle cartridges.

Around 1930, most manufacturers producing revolvers in .22 RF caliber began utilizing "safety cylinders" whose chambers were countersunk to permit seating the cartridge rims within a wall of steel, the cylinder's base being virtually flush with the recoil shield. This safety measure was necessitated by the introduction of high velocity 22 RF ammunition which posed the potential danger of blown rims if used in cylinders designed for standard velocity.

The acquisition of revolvers featuring the wide variety of safeties delineated in this article can constitute a fascinating sub-specialty in gun collecting. The author believes it worthy of pursuit.

# REBUTTAL: BETRAYED!

(Continued from page 20)

Marxist organization.

But is the Attorney-General or police chief, the Congressman or Senator, or State legislator any better when he starts thinking in terms of controlling the people, rather than serving the citizens?

Lest you think I go too far in my fears for American freedom, the groundwork for concentration camps already exists in America. You have probably heard of the McCarran Act. which not only establishes these camps (presently dormant), but also provides for imprisonment without trial or other constitutional guarantees "during 'lime of emergency" for anyone the Attorney-General of the U.S. feels "has or is likely to commit sabotage or espionage". These are broad terms, and the Japanese-Americans were imprisoned just this way during World War II, and this was even before the law.

Any licensing law, too, should be viewed as to how it can be mis-enforced, as our present laws are, and how it could play into the hands of a dictatorial power by giving a list of all gun owners.

So, what are we to do?

First, always adhere to the ten points listed elsewhere in this article. Compromise all you want in the direction of these points, but never away from them. There simply isn't room to back up anymore. All the "nails" in our coffin were compromises and seemingly good deals made at the time. So was Munich.

Second, join or help organize a county sportsmen organization. There are both national and state organizations, but relatively few county level groups. These groups do not supplant the largely fraternal local clubs, but are organized solely to watch out for sportsmen's rights, and they can include hunters, collectors, fishermen, boaters, skiers, etc., allied interests with an allied goal. Too often a legislator, either state, local, or Federal, may not feel a national or state organization is strong in his area, but he knows about county organizations, A good county organization should send a representative to any hearing

on gun laws, and then have him drop by to pay his respects on the legislator. Very effective. The importance of this can not be overrated, since not only are states made up of counties, but Congressional districts are largely drawn on county lines. San Francisco, for example, is only one county, but has two congressional votes. The United Sportsmen of San Mateo County, of which I am a member, takes in the large county covering the San Francisco peninsula, below San Francisco. It comprises many towns. two state assemblymen, one state senator, and one congressman. Practically the whole Bay Area is similarly organized, a fact which should be emulated elsewhere.

Third, do some missionary work. Mr. Mann was partially correct about city life and gun ownership. Many people do not own a gun and consequently do not care, not realizing the full implications of anti-gun laws. Tell them. Better yet, sell them a gun, or take them out and help them buy one. Get your neighbor interested. He'll be flattered that you care, if nothing else. Get him to join your organization, take him shooting with you. It is very effective, and it helps as he, in turn, defends the right to bear arms where he works, or gets someone else interested.

You'll find, too, that most people believe they have the Constitutional right to own a gun, whether they do in fact, or whether or not they own one. If each person reading this article got only one new gun owner in the next month, the effect would be felt all the way to Washington. If each of us could get, say, five in the next year, the results would be catastrophic for the anti-gun forces.

Additional gun ownership would mean less crime, too, as otherwise victims meet violent intruders with a gun instead of a plea for mercy.

Encouraging gun ownership would give pause to those self-styled revolutionaries who threaten to burn down our cities, and to those politicians who would turn our country into a vast open-air prison.

The differences between gun own-

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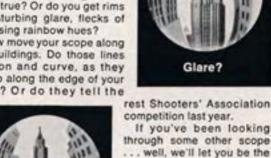
Do they look sharp, throughout the whole field of view? Or do you have "tunnel vision" in the middle of your field of view, surrounded by a blurred image?

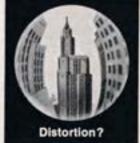
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ers are, I hope the sincere differences of honest men, so let us join together to work for the truth, not help our enemies, not compromise our integrity, not support bad legislation in the vain hope that it will be the end. It may be the end, but not the one we want.

Principle Features Of A New Federal Firearms Law:

- 1. Prohibit all Federal registration, any registration being at the state level.
- 2. Establish a special commission to enforce a new gun law under the Health, Education & Welfare or Commerce Departments, not the Treasury.
- 3. Retain the penalties for the use of a gun in a crime, but only a crime of violence should cost a person the right to own a gun, except for drug addicts, mental incompetents, etc.
- 4. Re-institute mail-order and outof-state sales of guns and ammunition under an affidavit with police notification system or a voluntary collector's license. The present Collector's license is a farce. Special provisions on a collector's (or dealer's) license could be made for owning automatic weapons or military ordnance,
- 5. Standardize the state gun laws, providing for a waiting time period for a first-gun purchase, but allowing for the carrying of unconcealed firearms, or concealed in a vehicle (with police notification). If this is not possible, standardize interstate travel, so that a citizen does not break a law by simply crossing a state line with a
- 6. Stop discrimination against importing surplus military firearms or ammunition, which are no more dangerous than sporting firearms or ammunition.
- 7. Halt the destruction of surplus U.S. military firearms and confiscated criminal weapons, Provide for their sale to reputable dealers or collectors.
- 8. Encourage gun ownership by ending harrassment by officials and endless red-tap; also by a tax on importing or making guns or ammo to go for hunting lands and shooting ranges.
- 9. Institute firearms training in the schools to further reduce gun acci-
- 10. Make it a clear principle of public policy that free, private gun ownership is protected both by the Constitution and common law, and that an armed citizenry is the ultimate safeguard of our political freedoms and personal security.

# SAVAGE SHOTGUNS

(Continued from page 25)

shotgunning. With both hands in the same plane, the preponderance of weight of the gun between them, and with the aiming eye calling the signals, hits are inevitable.

The new Savage over/under locates the hands in proper position. Neither the one nor the other higher or lower than its twin. This is the secret of the good performance of the new guns. The Model 440, now around for a year, and the variations to it, the 440 Trap and the 444 Skeet, along with the Model 330, a field gun, all fit very sweetly.

In any analysis of the good shooting qualities of the stacked-barrel shotgun we are at once impressed with the soundness of its design. The under barrel-and 65% of all shots are fired from it-is lower than on other types of scatterguns. It is more nearly in line with the shoulder. This means it kicks less. It has a softer recoil because the muzzle does not rise so much. The turning motion on the shoulder which occurs with pumps and automatics just does not happen with the superposed arm. When a gun has a barrel that stands high above the shoulder line it rises on recoil and wallops the shooter in the chops. The O-U does not do this.

I have tried for many years to shoot the old side-by-side double. A good many wingshots swear by its good shooting qualities. I find when I look over those twin muzzles I am simply confused. The muzzles act as a front sight on the really fast snap shot and when the forward end is as broad as an old double it hurts my precision. This does not happen with the overunder. You have only the one barrel to see and it accounts for a better, more accurate aim. When you then add a neat raised rib you have really got the combination.

Last fall, I shot mourning doves very industriously with the Model 440 Savage. Made only in a 12 gauge, with 26-inch barrels bored modified and modified, with the tubes and chambers chromium lined, this gun was a real duzy on the tricky flying game. The 440 has a single non-selective trigger, always firing the under barrel first and the safety is automatic. It has extractors but no ejectors. This is a nuisance in a hot corner and on doves you do occasionally get into a really lively spot where you swear over the nuisance of picking out the empties.

The gun is stocked with a 14-inch length of pull, 111/12" drop at comb and 21/4" drop at heel, the down pitch is 13s inches. The trigger pull is clean, fast-breaking, and drops the hammer at 4 lb., 2 oz. The under tube mikes .710" in the choke, the over tube goes .705". These chokes range from modified to improved modified and are perfeet for dove shooting. Patterned with Federal's new plastic shells, 3 drams and 11/8 oz. 71/2 shot the under tube ran 10 patterns that read an average of 62%. The upper, and tighter, barrel, with the same Federal loading went 67%.

The 440 weighs 6 lbs., 10 oz. This is a lightweight, especially in a 12 gauge. It is essentially an uplands gun, meant for light to moderate field loads. It is not the gun for magnum cartridges nor even express charges. With dove loadings, the 3 drams equivalent and 1½ oz. shot, it does not kick and is a distinct pleasure to shoot through a long afternoon around a lively waterhole.

The Model 440 is made by Fabrica Bresciana Armi, of Brescia, Italy, one of the largest and one of the best known arms manufacturer of Europe. The original design of the shotgun is the result of a combined effort of Savage engineers and those of the Brescia firm. Action, barrels, main stock and forestock are all made in Brescia, and thereafter imported by Savage. Stock specs are common to the best of our American shotguns and are approved by our gunners. There is a comfortable pistol grip, hand-checkered, and the fore-end, in common



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# SILENCERS (VOL.

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### GARAND RIFLES

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Normount Armament, Box 211 GNS Forest Grove, Or. 97116, USA with all good over-unders, is a nice handfull. It is also tastefully checkered.

The action is a boxlock with graceful lines and a small touch of engraving. The steel is chrome moly, and the lockup is the strongest. With the barrel lug located beneath the under tube and accepting a wedge bite that is tapered so that as wear occurs over the years it will fall more deeply into the lug slot. The single trigger functions on the inertia principle. The recoil of the first shot sets the miniature hammer which readies the second barrel. After more than one thousand shots, fired during the hunting season last year, the trigger has never bobbled. When the gun is snapped after the first trigger goes, you may rap the butt on the floor and this will set the second trigger. Or, you can simply work the safety on and off and on again and then snap the over-barrel, A most pleasant fact about the trigger is that it does not vary even fractional ounces from one barrel to the other. It is clean and sweet and fastbreaking.

The chromium lining of tubes and chambers is a real godsend to the shooting man. This not only improves patterns but it virtually eliminates the need for a fast cleaning after having the gun out in the weather. Chrome will not rust; it is absolutely impervious to the weather. Be it rain or snow, fog or mist, the gun will not show any adverse effect. The outside of the gun is handsomely blued, and it needs protection in the shape of oils or greases.

I complained about the M440 to Charley DuBuisson, President of Savage, because the gun did not have selective ejectors. "You can't have your cake and eat it, too," replied the Head Man. "Look at the price of this new one of ours." And he has a point there. The 440 sells for \$237.50, and at that price you simply cannot expect to get both the single trigger and the selective ejectors. Savage made a decision to keep the price down and to offer the one trigger.

It was last year that I was grousing to President DuBuisson, This year the story is different. The Model 444 over-under is the answer. It is the 440 with fancy trimmings. It has selective ejectors. There is the selfsame superb single trigger, only this time it is selective; there is a one-quarter inch width raised vent rib, and a semibeavertail fore-end. Now the 440 has the raised vent rib, but the other niceties are peculiar only to the fancier 444. It has barrels and boring for skeet shooting and there are other barrel lengths and boring for field shooting. It is a more expensive gun, as you will appreciate, but the remarkable thing is that between Savage and Fabrica Besciana they have managed to give us an exceedingly handsome superposed shotgun for less than three hundred dollars. For \$289.50, to be exact.

The 444 weighs 6 pounds 8 ounces, despite the full forestock, and handles like a twenty bore. The gun sent me has a trigger pull that lets off at 414 pounds and is smooth and sweetbreaking; like a good target rifle. There is no difference between barrels, the first trigger and the second go at the same poundage. The selector is a neat bit of engineering. It is an inconspicuous lever on the tang. located just forward of the automatic safety. Ordinarily, the under barrel always goes first, this is proper as it is invariably the more open choked, however if you should want to fire the over tube first you simply press the change lever forward. When the gun is opened to reload the lever returns to its original position and will again fire the under barrel first.

The 444 has a selected European walnut stock and forestock, both hand-checkered. The fore-end is grooved to give a better handgrip. The length of pull is 14 inches, the drop at comb is 1½ inches and the drop at heel is 2% inches. There is a down pitch of 1¼ inches. The butt-plate is hard rubber. These measurements are okay for the average shotgunner, maybe a mite too straight for skeet shooting but okay for trap and for upland.

(Continued on page 56)

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**HOSUHOL** Box 13054

(Continued from page 54)

The chromium lined barrels are bored .706" in the lower tube and .700 in the upper. This is pretty tight, improved modified and full choke, Tried on skeet, I missed 2 or 3 targets in every round. The boring should be .725" in both tubes for a good skeet choke. Patterned with Remington's new plastic skeet load, with the Power Piston wadding, 3 drams and 11/4 oz. No 9 shot, ten patterns averaged 68% out of the lower barrel and 72.5% put of the upper. Patterns were exceptionally even and uniform with a variation in percentages that only amounted to 8% for the 20 patterns fired.

Along with the Model 444, Savage has introduced another variation of the original 440 gun. This is the Model 440 Trap. It is designed for trap shooting and long range wildfowling. The gun has 30-inch barrels, with a 3s-inch raised vent rib, two sights, and a Monte Carlo stock with semibeavertail forestock. The same excellent single trigger, nonautomatic safety and simple extractors (no ejectors), together with a stock which has typical trapshooter specs, along with a ventilated recoil pad complete the gun. It weighs 7 lb, 11 oz, in the model shipped down for field trials,

Bored .700 in the under barrel and 685 in the upper it throws tight full choke patterns from either tube. Tested with Winchester "AA" target loads, 3 drams 11/4 oz. No. 71/2, ten patterns from the lower barrel ran an average of 73%; ten patterns from the upper tube went 75%. The trigger pulls 4 lb, 5 ozs., and is excellent. There is no creep, no drag, no roughness in the letoff. Both barrels shoot to the same center at 40 yards by careful experimentation from a benchrest. The stock, with its comfortable Monte Carlo comb, has these measeurements; length of pull 14%s"; drop at comb 11/4; drop at rear of Monte Carlo 11/4; drop at heel 21/4; down pitch 11/2 inches. The single trigger is selective just as is the 444. There are no ejectors because so many trapshooters now reload their own cartridges and it is a bit easier to pluck them out of the gun and drop them in a shooting jacket pocket. The 440 Trap sells for

The new gun in this year's offering by Savage is the Model 330. This shotgun is the Valmet, made in Finland. It has been on the American market for a number of years but never before offered by Savage. It is unique for the fact that it locks up like the Remington Model 32 over-under. That is it has a shroud, actuated by the top level, which moves forward and locks the barrels down quite firmly. This top breeching contributes to an exceedingly shallow action. It is axiomatic that the less depth in the O-U action the better it can be pointed and shot. The 330 is in a class alone in this regard.

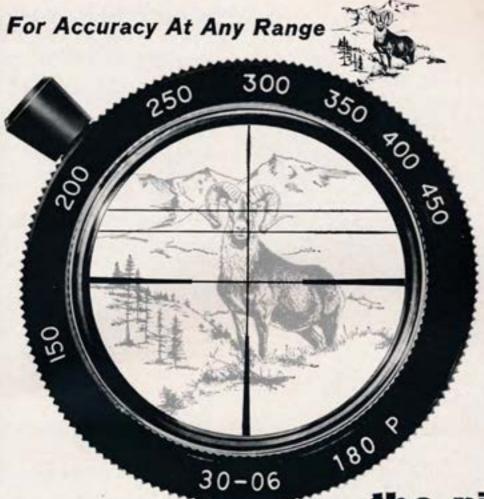
There is a single trigger that is selective. The mechanism is purely mechanical, is not set by recoil, and for this reason the "Four Tenner" auxiliary barrels as offered by Savage, can be used in this gun. The trigger is sharp, clean and good; it lets off at 4 lb. 5 oz. There are simple extractors.

The stock and fore-end are of European walnut, hand-checkered, with a good-feeling pistol grip and a forestock that is a fine handfull. The stock specs are 13%" length of pull: 11/2" drop at comb; 21/2" drop at heel; with a down pitch of 2 inches. There is a hard rubber buttplate. The 330 is bored .705 in the over tube and .710 in the under barrel. It patterned, for 20 shots, full choke in the over barrel and a strong improved modified in the under barrel. Barrels are 26 inches in length but tubes of 28 and 30 inches can be had. There is no raised rib. Weight varies from 7 pounds to 7 pounds 5 ounces, depending on barrel length and denseness of the stock wood. The 330 I have goes an even 7 lb.

The 330 sells for \$199.50 which is an especially appealing price for a fine and sturdy over-and-under shotgun. It speaks well for the efforts of Savage and the Finnish manufacturers to be able to produce a gun as fine as this, import it paying the duty, and then be able to offer it for less than two hundred dollars. One of the most popular field and skeet guns has always been the now defunct Remington Model 32 over-under. It is highly prized because of the shallowness of the receiver. This permits the hands getting up higher on the gun. Both around the barrels and higher about the receiver. The gunner hits closer with this design and shooters know this and seek out the Model 32. The new Savage 330 has precisely the same design about it. I predict it will be instantly accepted by the shooting fraternity when word gets around as to the design of this latest Savage.

# GUNLESS GUN SHOP

San Francisco will get a new gun shop, but because of police and city council objections, there will be no guns displayed, and no advertising done. Could this be the beginning of a trend?





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# AUTO-BURGLAR GUN

(Continued from page 39)

can be considered indicative of the general performance of the Holland Auto-Burglar.

Test firing of over 100 rounds of #3 buck at a 3 ft. square paper target, with an aiming point in the center, reveal the following significant facts: at five vards, all 20 pellets will group in a 9" pattern. At 10 yards, all 20 pellets will average an 18" group, and at 50 feet, 16 out of 20 pellets will hit the 3 ft. target with 8 impacting in the trunk area of an average size man. At 20 yard ranges, four pellets will hit the body area. Some pellets will usually hit a man size silhouette at extreme ranges of up to 50 yards. This "hit" capability is extremely important to the average police officer engaged in a shootout. It means that at normal police combat ranges, he has a distinct advantage over the criminal The 20 gauge rifled slug fired from the Auto-Burglar also gives equally impressive results. The % ounce rifled slug (approximately 273 grams) with a muzzle velocity of 166 fps will penetrate at close and medium ranges, car bodies, floors, walls, ceilings, doors and 11 inches of % pine boards stacked together, at a 15 foot range.

The standard 38 special police load cannot even remotely compare with the velocity penetration, shocking power, and muzzle energy produced by the 20 gauge rifled slug. Test firing at an aiming point, produced consistent close 3 shot groups at 50 ft. that were 5" high and slightly to the left or right (depending on which barrel). Any shot aimed at the middle of a man would produce a hit in a vital area.

Recoil experienced using the 2%,

#### COMPARISON CHART

Cartridge	Bullet	Vel	ocity	Ener	gy
		Muzzle	50 Yds.	Muzzle	50 Yds.
.38 Spl.	158 lead	855	820	255	235
.45ACP	124/MC	850	810	370	335
.41 Mag.	210 lead	1050	985	515	450
.44 Mag.	240 lead	1470	1280	1150	875
20 Ga. Slug	273/lead	1600	1175	1555	840

armed with a handgun, especially under combat tension and poor light conditions. Precise aiming is not necessary. An aimed, or hip shot at the middle of the assailant's body will produce the needed results. Police records are replete where both the officer and criminal both emptied their handguns at each other, at almost point blank ranges, with negative results. The Auto-Burglar can change this situation.

The 12 gauge rifled slug is now considered a standard police load, ideal for urban law enforcement where accuracy, penetration, striking power and limited range are essential. The rifled slug is now favored in barricade and counter sniper operations. #3 buck, and rifled slug loads, was no greater than that experienced with a .44 Magnum revolver. The wide pistol type grip enabled the weapon to be fired repeatedly without undue punishment to the web of the hand. It is possible to fire the weapon with one hand. However, due to the design, balance, trigger distance, and shape of the grip, it is recommended that all simed shots be made using a two handed, extended arm grip. This is the best police method of firing any aimed shot with a handgun under combat conditions.

The model tested had the double trigger, standard on most double barrel sporting shotguns. The two handed grip not only enables better ac-



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WALTER H. CRAIG

curacy but provides better control of the front trigger, especially if the hand is small or medium size. The closer rear trigger is more comfortable and this trigger, controlling the left barrel, could be used for the rifled slug in the event the weapon is carried with a combination buckshot-slug load. A single trigger model will become available, in the near future.

In the majority of cases, the autoburglar will probably be fired without use of the front sight. One hand on the fore barrel and the other holding the grip near the body center, with the barrel in line with the eyes is the natural, instinctive pointing, quick method of firing this type weapon. Due to the wide pattern, lack of need for precise aiming, the arm is deadly when used in this fashion, at close quarters.

The Holland Firearms' modern day version of the auto-burglar is manufactured and imported under special contract with the famous Spanish firm of Sarasqueta. It is a well made, reliable firearm delivered with the official proof testing and inspection certificate of the Spanish government (Banco se Pruebas de Armas de Fuego, of Eibar). The lock work is tight and well fitted. Modern type steels are used in the case hardened action and the barrels. Interestingly enough, the rugged design and weight make it well suited for 'pistol whipping'-a police tactic not unknown, when a violent criminal needs to be subjugated, not shot.

A full time, professional law enforcement officer can now purchase an auto-burglar gun on presentation of a signed certificate by his chief, or agency head, in compliance with a regulation of the U.S. Treasury Department. A special ruling of the Internal Revenue Service enables ownership and use in performance of legal police duties. Police agencies can also order them on official purchase orders. The weapon is available through regular police arms distributor channels. Purchase information and government forms, including sample units for testing and examination, are also directly available from the Holland Firearms Company, Box 55066, Houston, Texas 77006.

The Auto-Burglar is one weapon that the policeman can own at a moderate cost, that with only a modest amount of practice will give him a degree of close range fire power superiority, unlikely to be encountered in criminal hands. This weapon demands respect. The criminal will think twice, when confronted with it in the hands of a determined officer; he will not continue to think, if the trigger is pulled.





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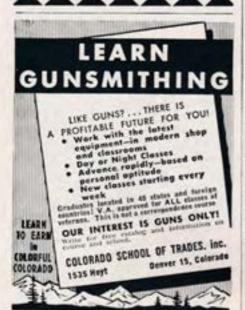


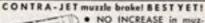
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HUNTED BIRDS with this of boy fer goin' on fo' year an' I ain't never see him miss ary pat'tridge yit. An' him ah shootin' nothin' but a fo'ten, too." I have heard this saga in its many versions all up and down the bobwhite country. It is on a par with the one about the country boy who takes out 12 cartridges and always fetches home 12 squirrels. And when he misses his pappy whips him with the cleaning rod. Then there is the other tale about the farmer who crumples the old honkers a hundred yards high with his single barrel "Long Tom." Good shooting. Good story telling too.

Fishermen aren't the only sporting strain with a touch of Ananias in their blood. Hunters are given to pulling the long bow, too, and it is seldom you find one who can count up more than two shots on any game no matter how difficult. Take the dove as exam-



ple. Our shooting mainstay. The fellow who can account for a limit of 12 birds with a box of shells is a rare gunner indeed. But if you listen to the shooting after the return, you'll find many of them who trade shot for bird.

What represents good shotgunning? Must the marksman actually account for dead game with every cartridge? Or can he still count himself a better than average shooter if he swaps something more than a single shell for each bird he grasses?

Probably the easiest game bird to hit is the ringneck pheasant. He presents a huge target and his flight is not fast and certainly it has nothing of deception about it. A good shotgunner will account for his 4-bird daily limit with not more than 6 cartridges. An ordinary gunner will need 8 rounds, The dub can be expected to cook off 3 or 4 shells for every rooster brought to pocket.

At the other end of the spectrum is the mourning dove. This speedster is unquestionably the toughest aerialist of them all. He flies fast and he can cut up more exasperating maneuvers than either you or I can cope with. He towers, falls, sideslips, puts on the brakes, goes full throttle, and when he is straight and level with the bit in his teeth and a tail wind to waft him along he is a real toughie. The best of shotgunners trade not less than 2.5 shells for every one of these fellows. There will be days of course when our marksman will beat this but there will be other days when he tumbles down into the class of the garden variety shooter who needs not less than 3.5 cartridges per bird. Poor effort will see 7 shells banged off for every hit,

Bobwhites, ruffed grouse, snipe and woodcock are not so hairy. A good man will take any one of these with not more than 1.5 shots. And he will have runs when he will grass a halfdozen with no misses. The average shot needs 2.5 cartridges and the benighted one may use as many as 5

rounds per bird.

Ducks are tough. Not trying like doves so much but exasperating because of their great speeds. The waterfowler shoots behind, he simply cannot make himself believe that he should lead the greenwing a full dozen feet. The fine fellow who can fetch home his piddling little daily limit of 2 or 3 birds, on the basis of 2.5 shells for each web-foot can hold up his head in any gathering. Ordinary shooting is 4 rounds per bird, and poor is 7 shots. Geese are something else and there is always a lot of debate about just how hard it is to bag

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an old Canada. Lots of wingshots are fooled by the size of the bird and they shoot at him out of range. This is good for the ammo makers but it is very bad for the gunner's ego. Old goose shooters, the savvy kind who let the great birds approach within range take a honker with every two shots. Ordinary effort is 3.5 shells. And mediocre performance will score around 5 cartridges per bird.

Rabbits, running neck and neck with the dove as our most popular uplands game, aren't too difficult. The gunner with good reaction time and the ability to snap shoot will get a cottontail with almost every shot. I'd say 1.5 shells per bunny. Average gun work will require 2 loads and just fair shooting will need 3.

These figures are all confidential. Scores are to be kept by the individual and not necessarily divulged to even old shooting mates. For after all the best and brightest legends of the shotgun wars are those told about the feller who shot the "fo'ten and jist never missed a-tall."

Cowboys riding the range don't seem to pack 6-guns anymore. During a 700-mile swing through Texas' Big Bend country, I failed to spot a single pistol-toting cowpuncher. Now they carry rifles, an ordnance piece ten times more effective. During last week's swing I stopped a couple of nights with Gage Holland, a brush country cattle baron, and when I asked where his old .45 hawgleg was hanging he confessed he didn't own one! Pressed farther I also found he did not own a 30-30 saddle carbine either. What's the West coming to?

What he did own, however, was a pair of .44 double action revolvers and his gun cabinet was crowded with scope-equipped bolt action rifles. It is the same with the working cowhand, He ranges far and wide these days but not astride Old Paint. He now goes by pickup truck. In the truck cab is a gun rack, not to hold a single shooting iron but generally to hold three rifles. I traveled many back roads in the vastness of the Big Bend and failed to meet a single cowman who did not have one or two guns swung in this rack. But of six-shooters not a single one was in evidence.

The rack which holds these rifles is in the cab behind the driver. The rifles lie horizontally against the back glass and all the driver needs to do is to reach over his shoulder and he has a rifle in hand. It is a neat rig and a fast one when a shot is offered.

Cowpokes do not pack rifles for sport. Cattle rustling is big business. and those scope-equipped highpowers tucked behind the booted drivers are



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there for a deadly purpose. The upand-coming cow thief these days does not go south with those little dogies in the best tradition of TV or cinema portrayal. He swoops down in a fast truck, shoots two or three yearling calves behing the ear, loads them in his pickup, and gets out. That is unless he is cut off at the pass by the cowboys. If this happens lead is mighty apt to fly!

I pow-wowed with maybe a dozen ranchers on the back roads and almost to a man all were carrying rifles like the 30°06, the 270, the 243 and the 308. And all scope-mounted. "You can see through a scope real good on a moonlit night," one stumpy old rancher told me. Since the rustlers are especially active during the moonlit evenings I caught the inference of his remark.

Not all the rifles trundled across the brush country of Texas are for the serious purpose of keeping down the rustler population. Almost all the trucks carry two, the first a highpower, the second apt to be a .22 repeater. This latter is for shooting rattlesnakes, javelina, jackrabbits and hawks. I was testing a new .22-250 and directly we met a middlin' good size rattler in the trail. I hopped out to give the snake the business but at such close range I couldn't see the reptile through the glass. Holland reached back and plucked his .22 from the rack and made me look slightly foolish with a quick shot through the head.

During the quail season the rack may hold a third firearm. A scattergun of some kind. Maybe a venerable double barrel, or a single shot, but more likely these days an automatic. Pot shooting is the order of the day, not sporting certainly, but your ranchero never takes more than he can eat and if you press him he will inform you that he raises the birds and he'll shoot'em however he likes!

Glancing into a battered pickup which had an equally battered shotgun on the rack, I noticed partly tucked under the seat a box of buckshot loads. Now these big-as-a-pea 
pellets are distinctly not for bird 
shooting. That is unless the "bird" 
happened to be the kind who tools a 
fast truck over back country roads 
and swings a sticky loop. If the cowpoke ever cuts him off at the pass that 
old repeater crammed to the scuppers 
with 00 buckshot would, I'd speculate, 
play a decisive role in the 
proceedings!

# SPRINGFIELD ARMORY

(Continued from page 32)

\$1,000. In return for membership, one does not receive a magazine or a fancy membership button but instead the far more important satisfaction of knowing that he is contributing significantly to the preservation of the largest gun collection in the World and that he may visit it and study it at his convenience. And, in case you are wondering, the payments are deductible on your Federal Income Tax return.

Having personally followed closely the formation of the corporation and the establishment of the Museum in its present form, I can vouch for the fact that no money is being wasted. The staff is being held to the bare minimum and there is no costly gilding of the lily, no cocktail parties, no pleasant vacation-style junkets for the staff, etc. The staff is dedicated to one thing—preserving this collection for its historical value and for the pleasure and study of you and I and our descendants,

Obtaining one of the memberships mentioned above is quite simple, Just drop a postcard or note to Springfield Armory Museum, P.O. Box 515. Springfield, Mass., 01101. If you're interested enough to call the Director, Tom Wallace, you can reach him at (413) 734-6477. However you make contact, you'll promptly receive a brochure which answers virtually any question you might have and contains an application for membership. Believe me, this is a most worthwhile effort to anyone even remotely interested in guns. For the student, gun buff, or collector, support of this activity is essential.

Perhaps you'd like me to be more specific about the items that may be seen and studied at Springfield Armory Museum. As I have already mentioned, the most complete Civil War collection known exists there. It includes not only the basic models of weapons, but swords, pole arms, accoutrements and equippage for manand horse, and many rare Confederate States items. The main building itself is unique in that it was built specifically to house Springfield M1861-63 Springfield rifled muskets of the Civil War, Each of the three floors was designed to house 100,000 "stand of arms." Today, just inside the main entrance is one of the original twotiered racks containing 645 individual 61-63 Springfields in mint condition. Edged weapon fans will find an extensive display of Springfield Ames

(Continued on page 64)



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The evolution of the revolver and of the automatic pistol is shown clearly in dozens of specimens dating from the earliest to those fresh off the assembly lines. The number of rare U. S. Martial Colt revolvers displayed will make any collector drool halfway down his shirt front. If you're a student of automatic weapons and machine gun development, you'll find everything from the M1862 .58 Rimfire caliber Gatling up through today's modern 20mm Vulcan, currently used in Vietnam, There are machine guns with one barrel, two barrels, three barrels, and virtually any type of breech mechanism one might imagine. If you think you have a new idea in this field. I'd say the odds are better than 1,000 to 1 that you'll find it already in existence in this collection.

If the real rarities turn you on, what could be more appealing than the M1847 Harper's Ferry Rampart gun? Only one specimen of this massive, swivel-mounted percussion rifle was ever built—and it's on display at Springfield in pristine condition, Another single display contains 10 Rampart guns of various types and sizes, ranging from match lock to percussion, from all over the world. Then, there are literally hundreds of oneof-a-kind experimental guns of all

If you are industrially inclined, the original Blanchard lathe built by

Thomas Blanchard in 1822 is preserved in a corner of the Museum. Blanchard's invention virtually revolutionized gun production for it made possible the machine-shaping of an entire gun stock-something that had previously been done laboriously by hand from the very beginning. The target shooting addict will find examples of all of the highly specialized guns built over the years for U. S. Army and Olympic competitors.

In short, there is little in the small arms and associated items fields that one could want to see or study that cannot be found in the Springfield Armory Museum Collection, And, this does not refer just to basic or standard models. For example, well over 60 variations of the Trap-door Springfield rifle are gathered there.

Unfortunately, the present facilities do not permit adequate display of many of the items, nor do they permit as much individual study as is desired. A portion of the funds needed will go for the preparation of private study rooms where one may take a selected specimen and disassemble, measure, photograph, or do virtually anything which does not cause damage. The building of additional display cases is essential to placing the maximum percentage of the collection out where the public can view it. And, of course, there is the necessity for regular care and maintenance of thousands of items. It simply isn't possible to hang a rare and valuable piece on the wall and ignore it for a decade or two. It must be preserved by means of at least occasional attention. These things all take money, so if you can spare the price of a few martinis or a round of golf, you should certainly become a member of the Springfield Armory Museum Society. And, don't make it just for one year!

# **GUNS OF THE 6-DAY WAR**

(Continued from page 29)

fied further, but remained essentially the same weapon. To keep their machine gun and rifle ammunition alike. the Israelis also turned to the FN MAG machine gun in 7.62 mm., after playing unsuccessfully with their home-grown "Dror" model, similar to the United States' Johnson Model 1944.

Israel's strategy, in 1956 and again in 1967, was to beat Egypt first, figuring that Syria and Jordan would see which way the wind blew before initiating an all-out attack of their own. They've been right both times. And Egypt, facing some problems similar

to Israel's in obtaining small arms, is now manufacturing some of her own

From the Soviet Union, the Egyptians under Nasser have borrowed the idea of borrowing weaponry ideas from other nations. Like the Czarist Russians who bought a half-dozen specimens of various small arms from Yankee manufacturers, then used them as patterns for thousands of royalty-free copies, the Egyptian government has set up an arms industry using foreign models, sometimes with variations.

These copies are intermingled with arms purchased from both the Soviet

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1301 Laurence Street Phone (205) 595-4491 BIRMINGHAM, ALABAMA 35210 Union and Czechoslovakia, for the most part. Adding to the confusion, however, are pistols from Italy, rifles and submachine guns from Sweden and Spain, and in reserve units the inevitable Lee-Enfield rifles, Webley revolvers, and Lewis, Bren and Vickers machine guns, relics of British Empire days.

One of the last things done by Farouk, the pudgy playboy king of Egypt, before he was thrown out by a military coup in 1952, was to import teams of Swedish technicians who set up an armaments industry in the Land of the Nile. Basically, the Swedes showed the Egyptians how to take a gun apart and make tools to copy the pieces. They even threw in a couple of their own designs, the Ljungman semiautomatic rifle and the Model 45 Carl Gustav submachine gun. In addition, the Egyptians got tooling and know-how for producing their own ammunition, none of which is now imported.

Thus, at the time of the Six-Day War, the Egyptian armed forces were packing the following international roster of weapons: Italy: Beretta Model 1951 Pistol, 9 mm—Czechoslovakia: Model 52 rifle, 7.62 mm—Spain: Alfa machine gun, 7.92 mm—Belgium: FN Self-Loading Rifle and Type D automatic rifle, 7.92 mm—Great Britain: Sundry obsolete small arms—Soviet Union: SKS carbine, AK assault rifle, RPD, SG43 and Goryunov machine guns, all in 7.62 mm.; plus several heavy machine guns.

The two Swedish arms are still in use, under new Egyptian names. The Ljungman rifle, somewhat updated, is now the 7.92 mm. Hakim rifle, and the Carl Gustav weapon has been dubbed the 9 mm. Port Said submachine gun.

In addition, photographs of troops of the Egyptian-trained Palestine Liberation Army, formed of Arab refugees, show them armed with spanking-new copies of the old Moisin-Nagant Model 1944 carbine, with its distinctive folding bayonet.

Both sides, obviously, bristled with small arms at the start of the Six-Day War, but despite apparent Arab enthusiasm the Egyptians and Jordanians were beaten before they started, when Israeli jet fighters and bombers smashed Arab air power while it was still on the ground. The Six-Day War, taken alone, wasn't a small arms war at all.

But the Middle East remains a hot spot, with raid and counter-raid, United Nations harangues and Big Power mutterings in the background. And the war goes on—the small-arms war in the desert.

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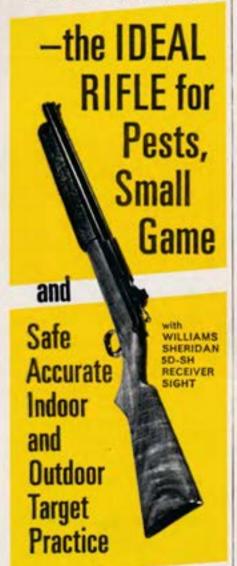
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works. Well made by Austrian craftsmen, the Python comes with a supply of ammo, cylinder safety shield, and cuff-link converter. Price, postpaid, only \$9.95 from Terry Roberts, 340 E. 57th St., N. Y., N. Y. 10022.

WEAVER has announced the all new Model V12 scope variable from 4x to 12x. At its lowest powers, the V12 is just right for all-around shooting at medium range. At higher powers, the V12 offers the extra magnification needed for pin-point shooting at the most extreme ranges. Available in the



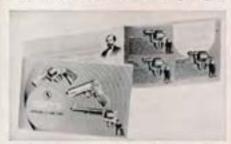
V12 are the crosshair, Dual X, post and crosshair and at no extra cost, the Range-Finder may be selected. The Weaver V12 costs \$79.50. For full information on the V12 and on all other Weaver-Scopes, write for a free copy of the new Weaver catalog to: W. R. Weaver Co., Dept, G-10, El Paso, Texas 79915. NOW IN the offing from Walter H. Lodewick is the Mark II Safety of the right hand variety, designed to replace the safety on military rifles when fitting them with a scope. It is gracefully designed with a non-glare blue finish. Available to fit Springfield Models '03 and '03A3, Mauser Model 98 (and similar), and the Mauser Model 95 (and similar). The Mark II Safety is available from your local gunsmith or from Walter H. Lodewick, 2816 N.E. Halsey St., Portland, Oregon 97232.

THE NEW 1 ounce squirt type can of Dri-Slide is now in production. This economical package of MoS: solid film lubricant is used effectively in industrial, fleet, aircraft, automotive, office equipment and building maintenance and the average household, Dri-Slide has won wide acclaim as a firearm lubricant and has a wide range of sporting goods and household uses on fishing gear, tools, lawn and garden equipment, aluminum windows, door locks, hinges and other uses where water and dust prevail. It cleans, penetrates, lubricates, inhibits rust and offers dry, slick, dust-free surfaces withstanding in excess of 100,000 psi. Dri-Slide is the household problem solver and makes inoperative parts work like new, many times longer than conventional oils. The new 1 ounce can is 69¢ at local gun shops, sporting goods and hardware dealers or write Dri-Slide Inc., Dept. G-10, Industrial Park, Fremont, Michigan 49412.

THE PUMA people, famous for their outstanding hunting, camping and outdoor knives, have just published a free illustrated, pocket-sized folder showing 27 items presently available from Puma. The folder also includes a short description of how Puma knives are made. Valuable tips on sharpening and otherwise caring for a fine sportsknife are also included. Available at your sporting goods dealer free or write to: Gutmann Cutlery Co., Inc., Dept. G-10, 3956 Broadway, New York, N. Y. 10032.

# SHOPPING WYLTH GUNS

COLT'S FIREARMS DIVISION of Colt Industries has just printed its new catalog for 1969. It is sixteen pages long and includes the company's full line of double and single action revolvers, semi-automatic pistols, and .22 rifles. All major gun



specifications and outstanding features are covered. You can get this new catalog at your nearest dealer or write directly to Colt's Advertising Department, Dept. G-10, 150 Huyshope Ave., Hartford, Conn. 06102.

THE NEW VICTOR Target Satchels hit the bull's eye for safety. The large foam-lined compartment securely holds one or two pistols and the foamlined ammunition compartment has a clear plastic lid. The special accessory compartment holds extra barrels, spotting scope, cleaning and other equipment, The Target Satchel



has an attractive attache case design and is made of leather-grain finish black ABS plastic. The two chromeplated steel latches with key locks are standard. The unit weighs 6½ lbs. and measures 17% × 4½ × 13" high. For price and details write Woodstream Corp., Dept. G-10, Lititz, Pa. 17543. THE GUESS WORK has been taken out of swivel selection with the new gun swivel catalog from Uncle Mike. There are a lot of uses for gun swivels for hunters and target shooters, but there's been very little put out about swivels . . . which one to use, how to know if the one you choose will fit



your gun, and so on. This 10 page catalog shows 42 different types of swivels but most importantly it gives you complete information on selecting the right swivel for each and every gun. Uncle Mike's Gun Swivel Catalog is a great addition to any gun owner's store of information. Send 10e for handling to Michaels of Oregon, Dept. G-10, P. O. Box 13010, Portland, Oregon 97213.

THE MODEL 770 is a new bolt action rifle being offered by Winchester. It combines accuracy and ruggedness with the ultimate in economy. The new 770 will be available in six standard calibers with 22-inch barrels, and in three magnum calibers with 24-inch barrels. Outstanding features of the Model 770 are an easy to see red cocking indicator, adjustable rear sights, a hooded type ramp front sight, exclusive three position safety,



a wide serrated trigger for more control, and a strong reinforcing stock bolt. Suggested retail prices for the Model 770 are \$139.95 in the standard calibers. See your local gunsmith or write to Winchester-Western Division of Olin Mathieson Corp., Dept. G-10, 460 Park Ave., New York, N.Y. 10022.

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in length. Buckle and all firtings are polished and chrome plated. Quick disconnect attach fittings make it easily removable and it can be stored in its plastic display and shipping box. Full step by step installation instructions make it easy to install. All necessary hardware is supplied. Price \$12.50.

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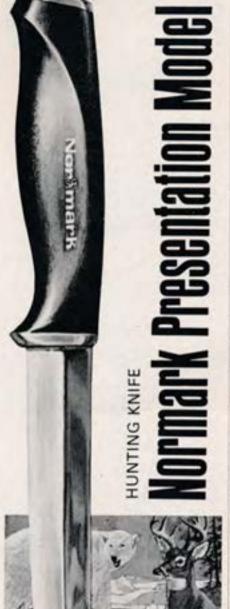
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# Panel of Experts

B.A.R.!! and M-16#@\*#

I would like to purchase a B.A.R. I know about the \$200 transfer fee with the Internal Revenue Dept., with which I am in full accord, and ready to pay. I would like to know if the B.A.R. can be modified and converted to a semiautomatic and lightened with a lot of the internal parts eliminated while retaining the same original features. I would also like to know, if this were done, would I be entitled to a refund by the government.

In my opinion the B.A.R. is one of the best military rifles ever produced. As an ex-G.I. I have long held silent contempt for those meat heads running our military. We are the best fighting men in the world, bar none, and we deserve the best in equipment. The M-16, for instance, is a piece of junk and I would not have it if they gave it to me for nothing. It looks like a toy created by Mattel, and will never take the place of our Garand M-1.

I just had to let off some steam, but I would very much like to get your comments on these matters.

Abraham Platsky San Francisco, Calif.

Conversion of a full-automatic weapon to only semiautomatic fire does not alter its original status as a machine gun for tax and transfer fee purposes. The key to this is found in that portion of the law which says, "... originally designed or intended to fire. . . ." In short, if the gun was originally designed and manufactured to fire full-automatic, it retains its machine gun status even after alteration to only semiautomatic fire.—G.N.

# Altering Shotgun Chamber

I have a Browning Automatic 16 gauge, serial number 73132, and on the barrel it reads "Browning Arms Co., Ogden, Utah," "Full 16 Special Skeet," and "Fabrique Nationale D'Armes De Guerre Herstal Belgique. Browning Patent Depose." Browning in Ogden tells me that it uses 2%" shells. The gun is in excellent shape. Could you tell me its value and if you can still get shells in this length?

> Joe K. Prater New Boston, Mich.

Your Browning Automatic 16 can be altered by the factory to handle 244" shells, Unaltered the difficulty of finding 2910" shells reduces its market value to about \$45 to \$55, depending on condition.—s.s.

# .218 Bee Conversion

I have a .45 Colt 1917 Model, double action with a 5½ inch barrel, I would like to make it over to a .218 Bee. But I would like to keep the original barrel and cylinder if it would be sleeved and if the gun could take the recoil the cartridge would have.

Pvt. Ricky L. Palin Fort Lewis, Wash.

I can understand your desire to retain your original cylinder and 51/2" barrel of the Model 1917 caliber .45 Colt, but sleeving both for a conversion to 218 Bee would be quite costly. Yes, the gun would take the recoil, but it is the pressure that must receive first consideration. I suggest you write Lakeville Arms Co., Meadow Street, Lakeville, Conn. Having converted numerous revolvers to their K-Chuck (improved .22 Hornet), I'm sure they could give you reliable information on the .218 Bee idea, Judging from our experiences with the Smith and Wesson .22 centerfire Mag-

(Continued on page 70)

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CLOYCE'S GUN STOCKS

Box 1133 Twin Falls, Idaho 83301 num Jet, which has a case capacity to slightly more than the .218 Bee, it might be feasible.

Within gun circles the question was asked many times after the 22 Jet made its appearance, "Why didn't they just chamber for a similar existing cartridge like the 218 Bee?" However, it must be borne in mind that the manufacturer did a lot of experimenting, and the only information we have on this is that the long steeply tapered Jet case was necessary to facilitate extraction of the super "hot" 22 centerfire revolver cases. Even so, we found the Jet extremely sensitive to difficult extraction. Chambers must be kept clean and dry, After sustained use, it was discovered that the fierce blast between cylinder and barrel was actually swaging-in the barrel throat and rethroating was necessary.

Revolvers actually are not designed for this type of "hot" cartridge. You may recall there was much delay in making a revolver to take the Winchester 256 Magnum cartridge, and none were released for the market. Obviously it was simply too "hot" for a cylinder gun, but the round performs beautifully in Ruger's single shot pistol which chambers the cartridge in the barrel and a cylinder-resembling solid breech block locks in place behind it. A bolt action single shot XP-100 pistol was rebuilt for Remington's 221 Fireball cartridge. Rest assured that if revolvers were reliable and adequate for the small "hot" cartridges, our arms companies would be making them. ( Also, your velocity from a 51/2 inch barrel would be very disappointing.)-w.s.

### English Walking Cane Gun

I have an old walking cane gun about 24 gauge in excellent shape. It is a muzzle loader percussion type. On the very top of the gun is stamped Day's Patent. It has British proof marks and the handle is either hard wood, bone or ivory. Any information on it would be greatly appreciated.

Tiny Powell Poteau, Oklahoma

One of the better percussion cane guns was the Days manufactured model. Makers of many types of fint-lock and percussion arms, one of Days most interesting guns was the Truncheon or Bludgeon pistol carried by police officers and private guards . . . using the same system that you have in your walking gun, I would estimate value for your percussion cane gun if in excellent condition to be approximately \$100 to \$125.—R.M.

# What's A M-1 Garand Tanker?

In the December issue of GUNS a fellow by the name of Gary T. Knight asked you for an evaluation of his M-1 Garand Tanker. So what is an M-1 Garand Tanker? Is it an issue weapon? How does it compare to the standard M-1? Who manufactured it? Is it available in any quantity? Who would supply parts?

Paul D. Oertell Omaha, Nebraska

A few years ago the Golden State-Santa Fe organization barreled a lot of Garands with Springfield barrels. Because of technicalities (the barrels were sleeved), the finished guns had 21 inch barrels, thus shorter than the conventional Garand; for merchandising purposes this gun was named the "Tanker." The "Tankers" are commercial guns; I do not know of any on the market that were military issue. They are, of course, shorter and somewhat lighter—and possibly not as



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PANTHER PUBS. P. O. Box 369-B, Boulder, Colo. 80302 accurate. Other than the indicated changes, parts are the same as the Government Garand-as is the ammo. Private owners advertise one for sale, now and then, but I do not know of any dealer that has any quantity in stock .- s.s.

Big Game Cartridge

I am interested in the .244 caliber as a big game cartridge. Could you please give me the address of companies that manufacture a rifle for this cartridge

I have been told that the H & H Magnum and the Atlas Companies manufacture a rifle and cartridge. Would you please give me the address of these companies and any others that might manufacture the cartridge and rifle larger than and more powerful than, say for instance, the Weatherby

> H. Van Eaton Lake Chales, La.

The only factory-loaded 6 mm or .244 caliber cartridge more powerful than the 240 Weatherby is the 244 Holland and Holland Magnum. This cartridge is not loaded in this country. nor are rifles manufactured here for it on a production basis. It is quite likely, however, that almost any of the better custom gunmakers would be happy to make you one to special order, I suggest that you contact Holland and Holland, Ltd., 13 Bruton St., London W1, England .- G.N.

Reloading For .45 Colt SA

I have a Colt Single Action in .45 Colt caliber for which I have recently bought a .45 ACP cylinder. I would like to reload for this new cylinder, but am unsure whether to use .452 or .454 sized bullets. I am also unsure whether to resize the cases with .45 ACP or .45 Colt reloading dies and would also like to know whether to crimp the bullets, as the .45 ACP is supposed to headspace on the cartridge case mouth.

Robert Hoppe Chicago, Ill.

In reloading 45 ACP ammunition for your .45 Colt revolver with auxiliary cylinder, utilize bullets of .45 Colt diameter. Preferably, select those bullets which produce best results in .45 Colt caliber in the same gun, A slight crimp is recommended at the case mouth for use in your revolver. An excessively heavy crimp will result in the condition of excess headspace because of the factor you mention.

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However, a slight crimp will serve to hold the bullet more securely in place and will still leave sufficient case mouth to provide proper headspace. Personally, I prefer to avoid this problem area by utilizing 45 Auto Rim rimmed cases which were introduced back in 1919 specifically for revolvers chambered for the rimless .45 ACP cartridge. This will allow positive headspacing, regardless of the type crimp you may prefer to use .-

# Remington Model 12

I am seeking information on a series of Remington .22 rifles, Model 12. I know they are made in models C. B. CS, D, E, F, DS, and FS. Do you know what differentiates this series of models?

Also, how much is one worth? And, are they being collected?

I have five of these rifles in very good condition with Pederson patent stamps on the barrel.

> Lynn Propp Tenney, Minn.

The significance of the letters used with the Remington Model 12 are as follows: "A", Standard grade, round barrel and chambered for .22 Short, Long and Long Rifle; "B", Gallery Special and chambered for 22 Short only; "C", Target Grade, chambered for 22 Long Rifle only and with an octagon barrel; "D", Peerless grade and chambered for either the Short or the Long Rifle, octagon barrel, selected wood and hand engraved; "E", Expert grade, similar to "D" but more ornate: "F", Premier grade, similar to "E" but still more ornate and with Circussian walnut for stock and forearm. The letter "S" when included with any of the above indicated chambering for the 22 Remington Special cartridge.

Prices run, for guns in good condition, \$30-40.00 for regular grades and \$50-75.00 for the fancier guns (somewhat less for the "S" calibers). Just about everybody collects Pederson designs made by Remington-including me!

# Headspace Gauges

I have been trying to find the right figures for headspacing gauges for the 8 mm cartridge. I have tried every gunsmith in the area and have come up with different checking for headspacing. I have a set of gauges for 8 mm from Hartford, Inc. Do you think they are ok?

Joseph Nicholson Silver Spring, Md.

Your Hartford 8mm headspace gauges are undoubtedly accurate. Our shop 8mm gauges are merely marked "Go, No Go, and Field." Many manufacturers stamp the actual lengths on them. Contact the gauge makers. I'm certain they will give you the figures they use. We have found a great many German 8x57 Mausers with tight headspace. The bolts will either not close on the cartridges, or do so only with effort. There seems to be some accepted variation on this one. The 1.946" .30-06 gauge is the "Maximum" tolerance gauge. For custom work and commercially made 30-06's a "No Go" gauge should be midway between the 1,940 Go and the 1.946 maximum, or about 1.942 or 1.943. Nobody purchasing a new rifle wants headspace that is approaching "maximum." The 1.950 "field" gauge is a sort of last resort line, wherever they are withdrawn even from military use .- w.s.

# BULLET MOULDS

(Continued from page 23)

the belted bullets, expanding bullets, oval bullets, and other multitudinous shapes that certainly must have kept British toolmakers busy making odd-shaped cherries to cut the moulds. The so-called cherry, by the way, is the drill or bit that is shaped to cut the round or conical cavities in the face of a blank mould block.

As energetic as were the early British efforts to improve bullets, from the 1880s forward the American search for improved accuracy, greater striking power or just better general

efficiency in bullets became even more active. In addition to the Bridgeport Gun Implement Co. and the Ideal Manufacturing Company, Winchester and others began making moulds to cast bullets of many calibers and various head shapes, bases, etc.; some had hollow points and others were "express" bullets having copper detonators set in the head.

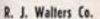
I recently inventoried a gun collection which contained approximately 350 guns, many of them fine single shot breech-loading arms. With this

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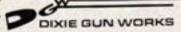
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collection were 254 bullet moulds, only a few of them duplicates. There were Colt, Starr, Massachusetts Arms Co., Sharps, Smith & Wesson, Ideal, Winchester, Bond, Kramer and a few other types. This collector liked to shoot every gun he owned and had a bullet mould and loading tool for most of them.

The Ideal Manufacturing Co., who took over the Marlin-Ballard mould-making, was in turn taken over some years ago by the Lyman Gun Sight Corporation of Middlefield, Conn. Along with the well-known single cavity Ideal mould with wooden handles they inherited Ideal's various all-metal combination moulds and loading tools known as Ideal No. 1, 2, 4, 6 and 8. Lyman's modern single and double cavity moulds with interchangeable blocks are now known to all handloaders.

The unit of measure for lead and powder commonly used is the avoirdupois scale:

27.34 grains ..... 1 dram 16 drams .... 1 ounce 16 ounces ... 1 pound 7000 grains ... 1 pound

Caliber	Approximate
of Bore	Round Balls per Pound
.28	240
.31	160
.34	120
.36	100
.40	70
.44	56
.50	36
.54	30
.58	25
.69	15
70	11

The above measurements are subject to some variation as armsmakers, although advertising their arms as a standard caliber, varied the bore. As an illustration, the Colt .36 Navy Belt Model was actually .375. Colt moulds east round and conical balls as follows:

Stated	Round Balls	Conical Ball
Caliber	per Pound	per Pound
.28 (Pocke	t) 200	128
.31 (Pocke	t) 140	92
36 (Navy)	86	50
.44 (Army	) 48	33

Handloading has become a very popular and rather scientific activity. In the 1970 Gus Digest one will find 25 books listed on the subject of ballistics and handloading. This activity is beyond the scope of our study here which is limited to the history and evolution of bullet moulds. It does indicate, however, the great and continuing importance of the mould as an accessory to firearms.

NEXT MONTH: Part III



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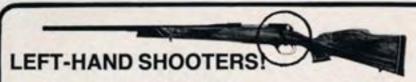
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# DODD BILL

(Continued from page 16)

tary within five days from the date of such transfer the following information: (1) the name and address and the number of the certificate of the transferee. (2) the name of the manufacturer, the caliber or gauge, the model and type, and the serial number of the firearm; and (3) the name and address and certificate number of the transferor and the date and place of transfer.

"A licensed dealer shall not take or receive a firearm by way of pledge or pawn without also taking and recording during the term of such pledge or pawn the certificate number of the person from whom he has taken or received the firearm. If such pledge or pawn is not redeemed the dealer shall within five days notify the Secretary and inventory the firearm in his own name..."

Here, again, is a bucket of worms. The gun must only be sold to someone holding a certificate and transported to him only by someone holding another such certificate. In other words, your mother could not take your brother one of your guns without your fully informing the federal government and then both of them would have to have federal certificates.

There is more-suppose Dad passed away? Going through his things you found his old double-barreled Fox. A prized possession! If you can't find Dad's certificate, the gun belongs to the federal government: "The executor or administrator of an estate containing a firearm shall promptly notify the Secretary of the death of the certificate holder and shall, at the time of any transfer of the firearm, return the certificate to the Secretary. The executor or administrator of an estate containing any firearm held by an ineligible person shall promptly relinquish the firearm, without penalty for any prior failure to comply with the provisions of this chapter.'

It is nice of the senator not to insist on punishing the dead. However, is this "just cause" to confiscate property, even if the new owners of the estate have federal certificates?

However, here is the pièce de résistance: "A certificate holder who possesses a firearm shall within ten days notify the Secretary (of Treasury) of his change of address or of a loss, theft, or destruction of the firearm, and after such notice, of any recovery." In other words, you would have to keep the federal government informed of where you live;

Yes, Dodd has done it again.

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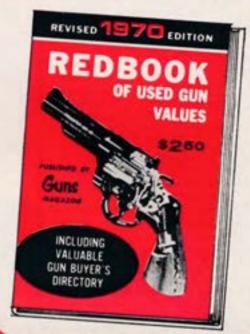


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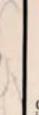
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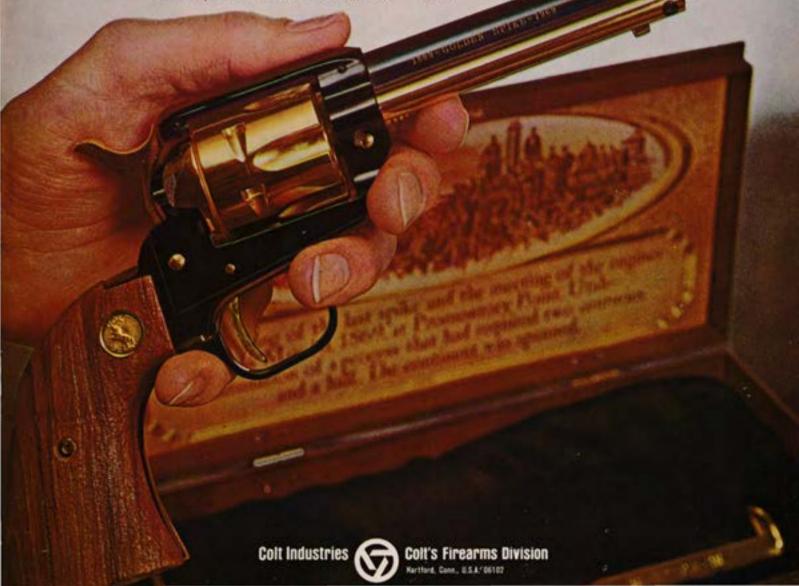
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