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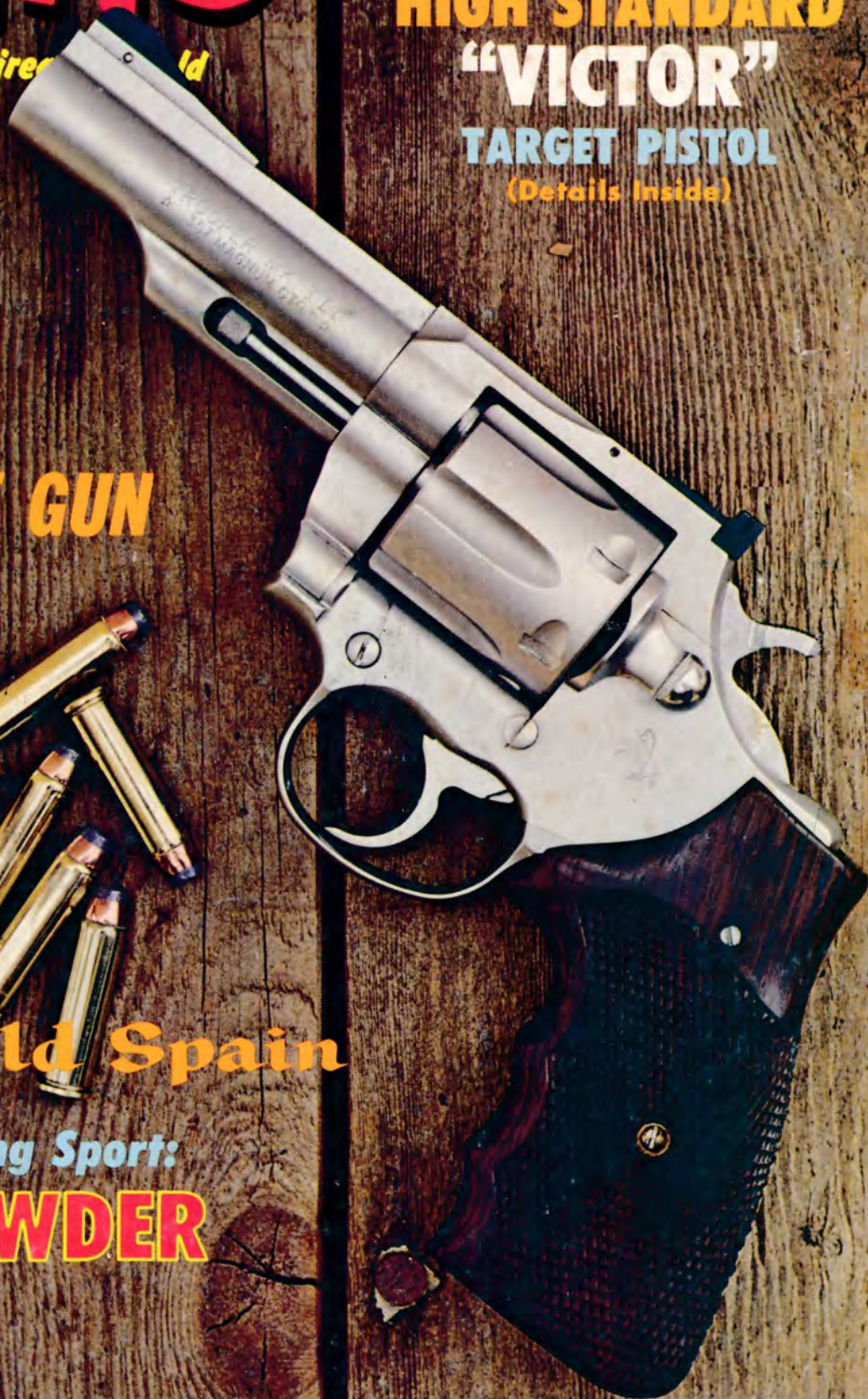
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TARGET PISTOL

(Details Inside)

Exclusive!

**INGRAM'S
NEW MINI
SUBMACHINE GUN**



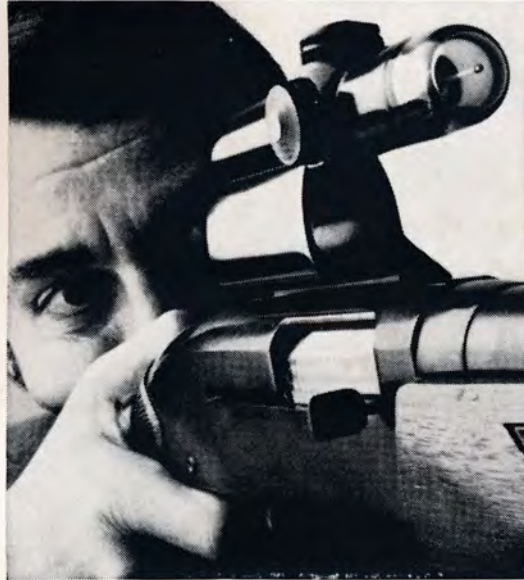
**FULL
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Guns of Old Spain

Our Fastest Growing Sport:

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take enough time to read this.

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all kinds of shooting.**



AUGUST, 1971

Vol. XVII, No. 01-8

George E. von Rosen
Publisher

Guns

FINEST IN THE FIREARMS FIELD

GUN OF THE MONTH CONTEST

WE HAVE been a bit tardy in announcing the winners of our monthly contests, but hope to catch up within the next issue or two. The latest winners we have confirmed are: Mr. Dwight Fish of Toledo, Ohio, winner of the Weatherby Vanguard rifle, and Dr. J. L. Woody of Bryson City, North Carolina, winner of the two Harrington & Richardson shotguns. The winner of the Browning shotgun offered in our April issue has been notified, but we cannot announce it until it is confirmed. I hope that all who have written, asking where the winners are, will be just a bit more patient, and will watch this spot for up-to-date announcements.

* * *

GUN OF THE YEAR CONTEST

Finally, we can announce the winners of the four guns offered in our 1971 edition of the GUNS ANNUAL.

Mr. Clarence Harmon of Frankfort, Indiana, won the Parker-Hale 1200 Mauser rifle.

Joseph Szakovits, Temperance, Mich., was chosen as the winner of the Weatherby Mark V rifle.

G. A. Van De Sande, Bonita Springs, Fla., can get out his buckskins when he shoots the handsome Plainsman muzzle-loading rifle by Replica Arms.

Edward Schuett of Des Plaines, Ill. was the lucky winner of the Harrington & Richardson .22 revolver of his choice.

We want to congratulate all of the winners, and we hope that you'll get a copy of the 1972 GUNS ANNUAL (on sale Sept. 10, 1971) where four more guns will be offered as prizes.

* * *

ODDS & ENDS

We have only a few of the John Wayne posters left—prints of the spread of our June, 1971 issue. When these are gone, there will be no more. The price is \$2.00 each; postpaid.

This is your last chance to write in your nominations for GUNS Magazine's 1972 "Man of the Year." If you have someone you'd like to see get this award, drop us a line.

THE COVER

This Colt Trooper Mark III was touched by the artistic hands of Armand Swenson of Gardena, Calif. The grips are by Fuzzy Farant of West Covina. Photo by Walter L. Rickell.

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News from the...

SHOOTERS CLUB OF AMERICA

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

ANTI-FIREARMS ADVOCATES LIE!

The anti-firearms people have been coming out with a lot of nonsense. They believe our problem of rising crime rates would be solved if all guns were confiscated except for the police and army. In the first place, the problem of a government confiscation of all firearms is impossible, as explained in a previous SHOOTERS CLUB column. And in the second place, the main proposition that there is a real relationship between crime and guns is a lie. The statistics from the Federal Bureau of Investigation prove that there is no significant relationship between crime and guns. For example, in 1966 there were 3,243,370 serious crimes committed in the United States. Firearms of all types, including zip guns, pistols, rifles, shotguns, machine guns, small cannons, and even fake guns were listed when they were used. BUT they were only used in 3.4% of these serious crimes. The other 96.6% of serious crime did not involve any kind of firearm! Again and again there have been records showing that there is no significant difference in crime rates between states and areas with firearms licensing laws and those that do not have firearms laws. Because firearms are only a minor factor when it comes to the whole problem of crime in the streets.

What about the remaining 3.4% of crime that involved firearms? The anti-firearms people say that even 3.4 is too large. When you break the 3.4 down you see that the majority of this already small percentage are crimes where some kid went into a food store or gas station and waved a gun. These kids do not want to get involved in a murder and it is often found that their guns are not loaded. The serious crimes involving guns are committed by a small percentage of this already very small percentage. Probably the most serious and most disturbing of the major crimes with guns are the cases where police officers are killed in the line of duty. Lets take a closer look at these cases. Two years ago an examination was made of 362 recent police killings. It was found that 76% of the killers had been arrested on some criminal charge prior to the time they became participants in the police murders, and of even more significance, over one-half of this group had been previously arrested for assault with a deadly weapon, rape, robbery, and assault with intent to kill. In fact, the record discloses 9 individuals had been charged on some prior occasion with an offense of murder. Seven of these had been paroled on the murder charge, one

was an escapee having fled confinement while awaiting trial for murder, and one was an escapee who fled while on trial for a murder. Sixty-eight percent of the 362 persons who were found responsible are known to have had prior convictions on criminal charges and more than two-thirds of this group had received leniency in the form of probation or parole on at least one of these convictions. More than 1 of every 4 of the police murderers was on parole or probation when he killed an officer!

Only one percent of serious crime involves firearms, and it is committed by a small group of people. The police already know most of those in this potentially dangerous group. They are the few who will cause the trouble, and not the millions and millions of honest sportsmen.

There are two approaches to take with this group of serious criminals. The very hard line and the so called humanitarian line. Personally I prefer the hard line. If a person wants to get into trouble then we should oblige him. None of the probation nonsense for serious crimes. Send them to jail for so long they will be too old to pull a trigger when they get out. The other approach is the so-called humanitarian way. That consists of giving these people psychiatric help and a sustained state income so they can manage their lives. This course of action becomes interesting when you present it to the stupid hypocritical anti-firearms people. They become indignant when you talk to them about spending \$20,000 to \$50,000 on each person in this small group. They call it a waste of good tax money. But these are the same bleeding heart "humanitarians" who would spend a billion dollars to aggravate every American sportsman. They will not spend 200 million to help correct the problem but they will spend a billion to cause we firearms owners deep grievous aggravation. The anti-firearms people are strange.

There is much that can be done to combat the anti-firearms groups. Especially on the local, city, and state levels. Here in Illinois for example we were instrumental in getting the question of local firearms I.D. cards (which are now required) on the ballot. If they are voted out then we will get rid of that headache. And there are many actions that can be taken on any state and city level. The more voices that are raised together the more chance we have of success. Fill in the handy postage-free reply envelope opposite this page and send it in today. Fight for what is right.

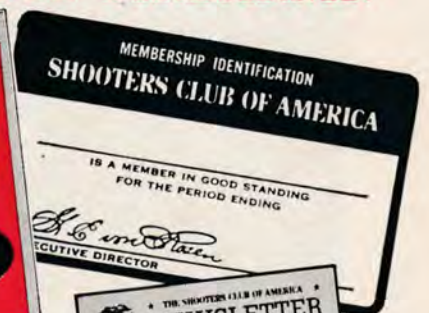
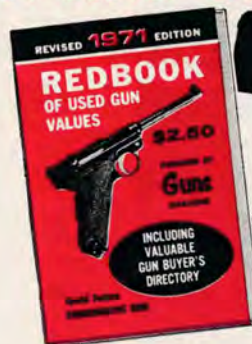
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More letters

I want to thank W. R. Laeng for his fine comments in the May 1971 issue. I am still at my letter writing. So far in 1971, I have written 79 letters to Washington, trying to do my part to save our firearms from confiscation.

Yes, Mr. Laeng and the famed British statesman Edmund Burke are correct; quote, "For the forces of evil to prevail, it is only necessary for good men to do nothing."

So, sportsmen, get busy. I sure need your help!

W. R. Maxwell
Hicksville, Ohio

Shame, Shame!

I have been quite pleased with the opportunity of reading your magazine during the last 12 months until I ran into an article written in your March issue by Col. Charles Askins in reference to the .410. How on earth can a man with as limited ability ever obtain the space he used in your magazine to blow off about something he knows so little about?

I am a retired engineer in my middle seventies and still own the first Model 42 Winchester shipped to Atlanta. I am still using this as my prize gun to shoot quail and doves. I also shoot a Model 11-48 Remington in .410. Another retired Atlanta executive and I spend most of each hunting season shooting quail and dove with these type guns. Any man with reasonable shooting ability that cannot kill in excess of sixty-percent of his quail shots with a .410 has no business in the field.

You should have this gentleman read "The .410—Giant of A Pipsqueak" by Donald Hamilton in the Feb. issue of True magazine.

For lords sake, get someone on your staff that can shoot something besides a 12 gauge goose gun at little quail and doves!

I. C. Milern
East Point, Ga.

Zukunftthirsch

The article "Zukunftthirsch" in the April issue of Guns was very enjoyable, factual and well written.

I publish a monthly magazine called "Rod and Gun" in which I occasionally publish true experience type articles which are well received. However, my space is limited, and I can't go into such fine details as you did.

I am certain the "Zukunftthirsch" article will be enjoyed by the American hunters in Germany, and by the countless numbers of former hunters in Germany that are now stationed with the Armed Forces throughout the world. I feel that a regular article of this nature would have the hunters already familiar with hunting in Europe eagerly awaiting each issue.

M. P. Klimaszewski
Major, GS
Exec. Sec. Custodian
Association of American Rod
and Gun Clubs, Europe.

In your April issue of Guns I was quite surprised to find an article about hunting in Germany. Having spent a considerable amount of time in Germany serving with the U.S. Army, I found the article very enjoyable. I hope in the future your magazine will offer more articles of this type, especially on hunting in Germany. Many of the sportsmen whom I have spoken to know little about hunting in Europe and would welcome the chance to read about it.

Edward Freer
Kingston, N. Y.

Hold On!

I just could not contain myself any longer . . . the May issue of Guns was just too much! Every single article in it was outstanding. It has been years since I've gotten so wrapped up in a magazine. I just couldn't put it down until I had read it cover to cover.

R. E. Clift
Covina, Calif.

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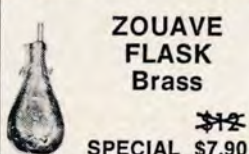
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STEVENSON on Hand Guns

THE SINGLE ACTION automatic is fated for extinction. Given a few more years it will be as has-been as the silver dollar and the celluloid collar, for the self-cocking selfloader is the wave of the foreseeable future. As one European handgun manufacturer told me last year, "We can no longer sell single action automatics. New developments will have to be double action in order to be marketable." It's as simple as that, and every Continental pistol maker who isn't already peddling a D.A. selfloader is guaranteed to have one in development. They're as common as gnats at a picnic.

Smith & Wesson's new single action "Escort" then is a gross anachronism, and without the protection of the Gun Control Act of 1968 which bans importation of this type of gun, would be a distinctly uncompetitive item. Curious, since it was Smith & Wesson who pioneered the double action self-loader in the U.S. When they introduced the excellent Model 39 in 1954, we patriotically patted ourselves on the back for lagging only two decades behind the Germans in handgun development. In fact the gap was rather more expansive than that.

At least 50 different double action semiautos have been introduced since the turn of the century, and only three of these have been American. Of this lonely triumvirate, only the S&W Model 39 has taken root.

Why the vast indifference on our part? Several factors come to bear. Our first exposure to the genre probably came too soon. The self-cocking Knoble entered the lists against the .45 Colt during the Ordnance trials of 1907, but was too delicate to go the route. The gun hadn't a prayer on the commercial market either, for, with the exception of the military, Americans were myopic to the virtues of the semi-auto. The big .45 gradually made

converts over the next quarter century, and a stretch of standing at the evil end of P-38's and PPK's finally awoke us to the fact that the other guy's hardware had something going for it as well.



French 9mm "Type Arme'e".

Just when the American shooting public was warming up to the notion of semi-autos in general and double action semi-autos in specific, our domestic manufacturers went to lunch. Somehow they concluded that selfloading pistols, unless conspicuously large and heavy, were inherently ungentlemanly—morally tainted as it were—and unworthy of manufacture in the U.S. This curious consensus was reached just after the Second World War, and with it the market was handed, on the proverbial silver platter, to the Europeans. They were in an excellent position to capitalize on it.

The first D.A. to see wide usage was the 8mm Roth Steyr of 1907, which was patented by the famous Czech designer Karel Krnka in 1899 or 1900, and was the service sidearm of the Austro-Hungarian cavalry during WWI. It is more accurately described as a "partial double action" since the striker was set at half cock by recoil or manual operation of the bolt, then carried on back and tripped by pulling the trigger. In case of misfire, the bolt had to be manually jacked—pulling the trigger with the

striker full-forward had no effect.

The Roth Steyr served well, and the Czechs and Austrians have remained in the forefront of double action auto pistol development ever since.



Rugged Czech Vzor 50.

The "Little Tom", manufactured in Vienna and named for its designer, the Bohemian engineer Alois Tomiska, was one of the first pistols to offer a selective double action—the trigger was pulled through to fire the first shot, while the hammer remained at full cock for the second and succeeding shots. Though often shoddily made of mediocre materials, its design was marvelously simple and has been widely copied.

Frantisek Miska, the brilliant Czech designer, patented a highly interesting double action .32 in 1927. A few years later this design was scaled down to .25 ACP and dubbed the Vzor 36. Jaroslav Kratochvil simplified the Vz 36 for postwar manufacture. Known officially as the CZ 45 and commercially as the Brno "Tezet", this is one of the finest vest pocket automatics ever built, and is still in production. The hammer is fully shrouded by the slide, but is visible at the back though there is no spur, since the gun is double action only, requiring a full stroke on the trigger to fire each shot.



Italian Sosso in 9mm Para.

The Miska-Kratochvil design was borrowed and adapted by Steyr-Daimler-Puch of Austria for their DA-only .32 which was introduced in 1957. This fine gun is still in manufacture, and was, until we hauled up the drawbridge, imported by Stoeger.

Back in time, and back in Czechoslovakia, Miska wedded his DA-only designs to a 9mm short pistol, ushering forth the Model of 1938—the last
(Continued on page 11)

Wear this emblem with pride



Sportsmen everywhere will recognize this famous emblem when you wear it on your hunting or sporting jacket. Over one-million sportsmen are members of the National Rifle Association of America. So wherever you go in the great sports of shooting and hunting, this emblem provides instant recognition among the fraternity of gunowner-sportsmen.

Year Around Programs Every month of the year, NRA members have opportunities to enjoy the shooting sports—from Sighting-in days before hunting seasons to national, state and local matches. There are also marksmanship training, hunter safety programs and instructor certification.

Hunting Service NRA Hunting Bulletins and publications tell you about game availability, shooting preserves, as well as gun and game laws. You will learn about when and where to hunt, best equipment to use. Hunter Awards are issued for many types of game.

Firearms Information Service Experts on NRA's staff give you prompt, practical answers to your questions on firearms. This is a valuable service both for gun collectors and for those interested in gun alterations, making their own grips and stocks, reloading and engraving of shooting pieces.

Legislative Information Service As an NRA member, you are kept informed on proposed firearms legislation, which would place unreasonable restrictions on the legitimate use of firearms.

Non-profit Organization NRA is a non-profit organization, supported entirely by members' dues. Chartered in 1871, NRA celebrates its 100th Anniversary this year.

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Czech service pistol before the German invasion.

Other nations weren't exactly dragging anchor all this time. The Italians had the double action 7.65mm Vitali in the early 1900's, and followed it in 1936 by the 20-shot 9mm Parabellum Sosso—one of the most radical and remarkable handguns ever designed.



Beretta Model 90 in .32 ACP.

Esperanza y Cia. of Guernica, Spain, developed a very interesting 9mm self-cocker in 1930, but it never got beyond prototype stage.

The French hauled the wraps off theirs in 1914. Manufacture's effort, which was DA only and featured a bounce-up barrel, was offered in 3 frame sizes, chambered from .25 ACP to 9mm Browning Long, and remained on the market through 1968. Some of its design features live on in Beretta's 950 series and Model 20.

The following year, 1929, saw the introduction of the most successful DA self loader of all time, the Walther PP. It's sawed-down twin, the PPK, followed a few months later, and by the middle of the next decade Fritz Walther had rigged his unique searage in a locked breech 9mm which was promptly adopted by the Wehrmacht to replace the immortal Luger.



Mauser HSc.

But the German market wasn't all Walther's by any means. By 1938 Mauser was ready with their HSc and Sauer was hawking their Model 38 (H)—a concealed-hammer pistol with a thumb-actuated cocking lever on the left of the frame. At the same time August Menz and Theodor Bergmann in Suhl were cooperating on a fascinating .32 which both firms marketed under the Model designation

"Special". It was to have come out in .380 as well, but the commencement of the Second War the following year quashed this pregnant project for all time.

The postwar era was one of frenetic activity. Walther reintroduced their line; Sauer endeavored to resurrect theirs. Mauser threw the HSc back in production, curiously enough in competition with Heckler & Koch's HK4 by the same designer. The PP was directly copied (under Walther license) by the Turkish Kirikkale, and nearly so by the Hungarian M48 Walam and AP66. The Czechs carried through with the .25 CZ 45, and introduced the Vzor 50 in .32 ACP.

By this time the ball was rolling. Astra in Spain brought forth their Constable Model in .22, .32, and .380. Beretta in Italy announced their Model 20 in .25 and their Model 90 in .32. Erma in Germany unveiled their KGP '70, a double action Luger-type in full-bore 9mm Parabellum.

With consumer demand now unambiguous, Walther abandoned their single action "TP" vest pocket pistol and replaced it with the double action TPH in .22 LR and .25 ACP—a scaled down, simplified PPK. About the same time, a new firm in Ulm on the

(Continued on page 69)

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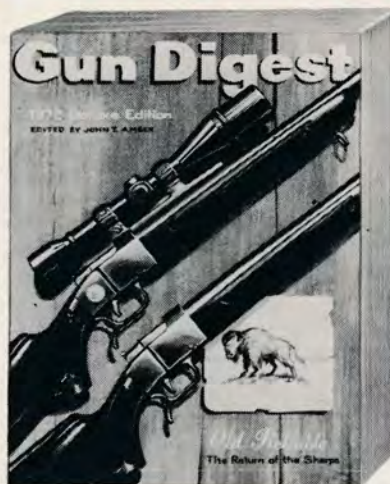
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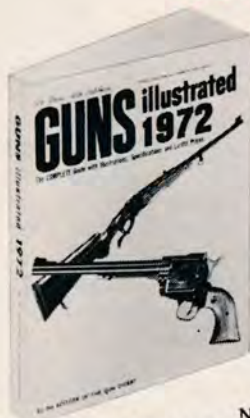
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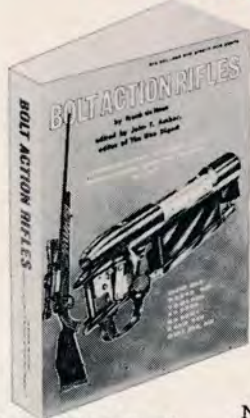
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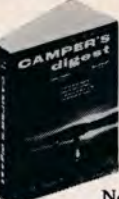
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By COL. CHARLES ASKINS

TWENTY-FIVE years ago skeet championships were almost invariably won with the Model 12 pump repeater. And 50 years ago more quail and ducks were gunned down with the shuffle gun than all others. Here of late the trombone model has seemed to be falling into discard. All our latest developments have been centered on the gas jobs. Those that take off a whiff of the heady stuff as it wafts up the bore and this serves to jar the action into motion. A movement sufficiently sturdy to see it toss out the empty casing and load with a fresh one. With the exception of the Model 1200, a sort of bastardized version of the finer Model 12, we haven't seen anything new in pump repeaters for lo these many years.

The pump gun was ahead of the automatic. It came along in the shank-end of the 80's and promptly commenced to replace the double barrel. The gun held 6 and sometimes 7 shells and this appealed to a lot of gunners who were intent on filling that duck limit when it stood at 25 birds. It also had a lot of fascination for the market hunters who were equally intent on filling the wagon bed. Despite the doleful warnings that the pump repeater was a game hog's tool, a lot of shooters stacked the old double in the corner and enthusiastically took to the new model. The Spencer appeared in 1882 and was rivalled by the Burgess and the Bannerman. Browning invented the Winchester Model 1887 lever action in '87 and followed it with the Model 1893, which was a pump, in that year. The repeaters were then well launched. The first truly dependable gun, however, did not appear until the Model 1897 was perfected. It was a real doozy, as

sturdy as New England morals and just as long lasting. It has now gone by the board but its tenure was a lengthy one.

The pump, quite apart from its volume of fire has a lot going for it. Lighter than the automatic, not much more weighty really, than the double barrel, it had excellent balance, good handling qualities and pointed with a lethality which accounted for a heavy game bag. The finest quail shot I ever knew, an Oklahoma sheriff named Russell Lovely, shot a Model 12 with 25-inch barrel in 20 gauge. He was double distilled poison and could drop three quail out of the covey rise time and time again. The slide-action was just as deadly in the duck blind and my Old Man, who was no slouch with the gun, used to recite how George Cobb, a reformed market hunter, would sometimes spill 5 mallards out of a passing flock with his old Model 97. No shotgun, regardless of type or make, can better this kind of performance.

The pump gun has everything going for it. It is dependable and sturdy, and as long-lived as any scattergun made. There are recorded instances, during World War II when the Model 12, while in use at Air Corps training centers, was fired 500,000 shots without a single breakdown. The gun, along with this good design is handsome, sleek looking and appealing. Why then has it been slipping a bit?

One of the reasons, and it may be the principal one, is that autoloaders are much improved. Once the self-loader was big and clumsy and weighed like a fence rail. Since World War II this has been pretty much changed. The auto is now just as light as the best of the pumps and in some

cases it is even more feathery. The old squared-off receiver, as ugly as a jackass eating cactus, has given way to guns that have all the racy lines of Raquel Welch. Made in all the gauges, with every conceivable combo of barrel length and choke, the self-starters have taken over the winnings at skeet and are much in evidence in duck blind and on the uplands. When gas got the upper hand, shooters were pleasantly surprised to find out that the gun did not kick as much. Putting the piston and its connecting linkage into motion softened and stretched out the sensation of the kick and this was muchly appreciated.

Another phenomenon which has mitigated against the cornsheller types has been the rising ascendancy of the over/under shotgun. Over the past quarter-century this has grown to be the "in" gun. It is a sort of status symbol and everybody, it would seem, simply has to possess a stacked-barrel job. Of those scatterguns that are imported from the Continent, Japan, and way stations, by far the majority are the barrel-over-barrel kind. But two pump repeaters are made abroad and shipped to this country. The O/Us run up to a score. So while the gunning public can find nothing to criticise about the sturdy old shuffle-handle, it has simply been overshadowed by the glamor gun. The superposed, the "in" model, the status arm.


An interesting thing about the most famous of all the pump guns—the Model 12 is that it first appeared as a 20 bore. It came out in 1913 and was followed the next year by the 16 and the 12 gauges. The .410 was not added until 1933; and the 28 gauge came along the next year. In 1950, Winchester made a cheapened version of the M12 which they called the Model 25. It has since disappeared. The current pump is the Model 1200 which was announced in 1963. It is made in 12, 16 and 20 gauges. It is a good gun but has never caught on. The Model 12 continues in the line but on a sort of semi-custom basis. You've got to order one and it is a special job.

Remington waited quite a long time before heeding the advancing popularity of the Model 1897 slide action. But in 1907 the first trombone ap-
(Continued on page 60)



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HANDLOADING BENCH

By MAJ. GEO. C. NONTE

THE MODERN (?) adjustable powder measure isn't always the complete blessing it might seem when it is first put into use. To be sure, it is quite fast, convenient, and accurate once correctly set for the desired charge. And, it is true that such a measure *can* be adjusted to throw any reasonable charge of any powder you might wish to use. Because of all those features and capabilities, it is pronounced a superbly versatile and useful tool no sensible handloader can afford to be without.

The only trouble with all that is the difficulty in adjusting the measure to the *exact* same charge every time you wish to duplicate a particular load. Since precise adjustment sometimes requires several minutes, there is a tendency to sluff the job off, leave it half-done, and thus throw less than a perfect-weight charge. This is especially true when setting up for small pistol-powder charges or when only a few rounds are to be loaded. In the latter case, it takes longer to set the measure than to throw the charges.

One old-time handloader avoids all this folderol by using a separate adjustable measure for each cartridge loaded often. He adjusts the measure to throw the proper charge of *one* powder for *one* bullet weight in that caliber and locks it *permanently*. Then, for other bullet weights he simply continues to use the same measure setting, while selecting other powders of different burning rates to keep pressure and velocity levels where he wants them. Thus he uses the same *volume* of powder for all loads in that caliber and compensates for different bullet weights by varying powder burning rate. This method is practical only with some calibers and with IMR type powders, but it does mean the powder measure is always ready to go without adjustment. It also means that there will be no variation from batch to batch of powder charges, even over a period of many years. Just one thing wrong—it

means you wind up with an expensive adjustable powder measure for every caliber you shoot. That could mean several hundred dollars invested, much of it for adjustment mechanisms you'll never again use. Somehow that doesn't appeal to me.

My personal preference for repeating rifle loads, while avoiding measure-fiddling, is to use the old Belding & Mull measure or the more recent Redding-Hunter Standard. Both dump powder into a hand-held adjustable metering tube. These tubes are low in cost—only a couple dollars at most—so a good many of them can be bought for the price of a single measure. It is then simple to adjust a separate tube for each frequently-used load, mark it clearly, then lock it permanently.

Admittedly, this type measure isn't as fast and convenient as the rotary-drum type, but it's plenty fast for rifle loads. And, those extra pre-set tubes eliminate fiddling every time you want to load something.

Setting a measure for light pistol loads is the most exasperating of all. Charge variations you can safely ignore in the .308 or .30-06, will make many handgun loads shoot like a scattergun. Try sometime to adjust your favorite measure so that 20 consecutive charges of Bullseye average *exactly* 2.7 or 2.8 grains. Sure it can be done, but you can be driven out of your tree in the process.

It is far simpler to use the Pacific Pistol Measure with economical interchangeable cylinders. Order extra cylinders for your favorite loads, such as 2.8, 3.5, 5.0 grains of Bullseye; 5.0 and 6.5 grains Unique; etc. Then you need only switch cylinders to be dead-on for any pet load—and that takes only a few seconds, and the charge won't vary from one year to the next, no matter how often you switch.

Almost as good for small pistol charges, and capable of handling larger charges than the Pacific, is the

Lachmiller (LEC) Pistol Measure. It is made much the same but uses interchangeable solid plugs to vary the volume of a large hole in the original metering drum. Simply drop in the correct plug and lock it in place to reproduce a given load. As long as you're careful to seat the plug properly, the charge will always be the same.

While the above methods and tools insure exact duplication of charges and cut down tremendously on measure-fiddling, not to mention costs, they don't do away entirely with the need for a good adjustable measure. There will always be new loads to be tried, new calibers to be loaded, etc. For those needs, nothing is as good as a top-notch, micrometer-adjustable measure. And, don't forget, you'll need a scale of equal quality to go with it.

A note of caution here. Never rely on one or two charges that weigh out correctly when setting a measure. Instead, throw five or ten consecutive charges together, weigh them as a unit, then calculate the average weight of the whole series. Adjust until the *average* matches the desired charge weight.


• • •

Just recently I ran fairly extensive tests on most of the new jacketed expanding bullets that have suddenly become available for the omniscient .45 ACP cartridge. As of this writing we have available the 230 gr. Norma, 185 gr. Hornady, 185 gr. Sierra, 200 gr. Speer, and 190 gr. Super Vel. All but the Norma can be driven just a wee bit over 1000 fps at safe pressures. Just under 900 fps is the limit for the heavy Norma slug. Those were the velocities we used.

Our tests were conducted at ten feet, firing into 8"x8"x8" blocks of Duxseal. Bullets were recovered from the Duxseal, cleaned, measured, and compared.

Poorest showing of the lot was made by the big Norma bullet which hardly expanded at all. It formed a long narrow wound channel almost identical to that of the full-jacket military load. Most expansive of the lot was the Super Vel 190 grain with its cavernous hollow point. It blew fist-size cavities in the test blocks and expanded to an average of .85-.90 caliber. The Hornady and Sierra bullets fell right behind Super Vel, with up to .85 caliber expansion and goodly-size wound cavities. The Hornady produced the most uniform and consistent expansion of all, recovered bullets being beautifully concentrically mushroomed in classic style with

(Continued on page 64)



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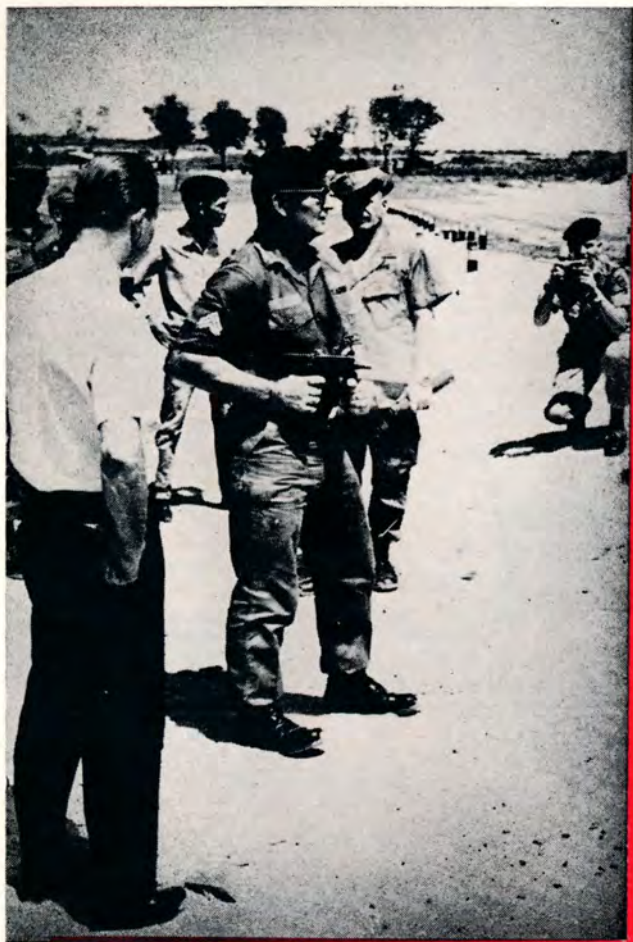
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Ingram Model 11 (actual size) weighs only 3.5 pounds.



Recently the Ingram M-10 was test fired in a demonstration for U.S. and ARVN troops in Viet Nam. Interest was quite high as the new gun is especially adaptable to jungle-type fighting so prevalent in that country.

MINI-SUBMACHINE GUN



By ROBERT K. BROWN

EVER SINCE the venerable M1911A1 .45 first hugged a G.I.'s hip, it has been cussed and discussed in a hundred articles and in thousands and thousands of bull sessions. But for the complaints concerning accuracy, design and weight, it still remains as the oldest member of the U.S. small arms family. Perhaps, though, its days are finally numbered.

The Army has been considering developing a 1975-80 requirement for a lightweight personal weapon to replace the .45 and if this requirement is approved by the powers that be, many arms experts say said requirement may call for a featherweight mini-submachine gun rather than a conventional type handgun.

The revolutionary new Ingram Model 10 lightweight Individual Weapon (LIW) in .45 caliber and 9mm Parabellum and the Model 11 LIW in 9mm

Short (.380) may have solved the Army's requirement before it is even drafted! Perfected by Gordon Ingram under the aegis of the Military Armament Corporation, a new Atlanta based military arms and accessories and manufacturing firm, these LIW's are the ultimate in lightweight submachine guns or machine pistols—take your choice on the nomenclature. According to MAC, "The Ingram Model Ten is the world's smallest and most compact submachine gun. It is not a converted pistol or carbine, but a heavy-duty automatic weapon with all of the features of a conventional submachine gun." This is no Madison Avenue bally-hoo either. The Model 11 weighs only 3.5 pounds, is approximately the same size as the .45 Colt automatic, and is easily carried in a hip holster. The Model 10 LIW weighs only 6.25 pounds and is less than a foot long but raps out rounds at about 900 per minute. The model 11 fires 1000+ rounds per minute.

Of original design, with a high rate of fire over a "reasonable range," these LIW's provide a defensive sidearm for military personnel who need both hands free in performing their primary mission such as radio operators, medics, crews of armored vehicles, truck drivers, aviation crews and crew served weapons personnel. Mitchell L. Wer-



1. Ingram Model 11 with a short MAC sound suppressor being fitted.
2. U.S. M-3 with standard MAC suppressor (sound silencer) attached.
3. Sten Mk II with British WW II silencer (canvas cover now missing).



Author, left, shown discussing the M-11 with Gordon Ingram, inventor.

bell, III, President of MAC commented, "The Ingram LIW is just the ticket for tankers. With the limited amount of space available, even the M-16 becomes a hindrance."

The Model 11 can be comfortably carried in a hip holster and fired off hand if the situation dictates. Ingram and MAC officials feel both Models will prove themselves in close combat situations, both in urban and jungle warfare. With a silencer attached, also developed and manufactured by MAC, both models would be effective in a wide variety of clandestine operations. For instance, the Model 11 with silencer attached with a 16 round magazine can be carried concealed underneath a trench coat. An agent could bring the Model 11 out of hiding, spit out 16 rounds of death, return the weapon underneath the coat and be on his way before the body hit the ground.

In ambush situations, the ambushing force might desire to liquidate, silently, the advance guard of an enemy unit moving on a jungle trail in order to lure the main force into the primary ambush killing zone. A few short bursts from silenced LIW's would eliminate the point men and allow the ambushers

to waste the main party.

The Model 11 is a reduced-to-scale version of its big brother, the Model 10. The Ingram LIW system employs an unlocked blowback action and utilizes a unique general design and bolt. The bolt extends into the receiver and by designing the bolt in such a fashion as to allow a recess for it to "telescope" around the barrel, a 5 inch barrel can

be utilized in the Model 11 though the length with stock folded is only 9.75 inches. The Model 10 has a 6 inch barrel with a total length of 11.5 inches. The LIW's fire from an open bolt position and thus remain open after the magazine is exhausted or the trigger is released.

With the bolt forward, all openings are closed to foreign material and dirt. Magazines are easily and quickly inserted into the magazine feedway located in the pistol grip which provides firm support of the magazine and facilitates rapid magazine changing on the "hand-finds-hand" principle, even at night. The stock, similar to the type utilized in the .45 M3 "Grease Gun" of WW II fame, is easily extended and can be used in a shoulder firing position or, when clasped to the trunk of the body by the right elbow, can be used to stabilize the weapon when firing from the hip. A fire selection switch located on the left side provides a full or semi-automatic fire capability. The safety is located in the trigger guard area to the right of the trigger. The sight is non-adjustable and the front sight blade is protected by sturdy sight wings. The flush sides offer no projections to hang up on clothing or vegetation. The unique leverage of the trigger mechanism gives a very short trigger pull resulting in easy control of short burst fire. The LIW's are of rigid all steel construction engineered for maximum strength and durability. No tools are required to quickly field strip the weapons. The bolt handle, located on top of the weapon, magazine catch and stock release are also conveniently located and accessible to either hand. Statistical data for the



Ingram Model-11 with ammo, magazine and suppressor in an attache case.



Model-11 compares favorably with the .45 1911A1 and the Browning Hi-Power in overall dimensions.

LIW's are listed below.

In operation, a full magazine is inserted into the pistol grip housing until the magazine catch engages the lip of the magazine. The bolt handle is pulled to the rear until the sear engages the bolt, cocking the weapon. Pull the trigger and the bolt moves forward feeding a round into the chamber from the magazine and fires the round. Automatic fire is obtained by moving the fire selector lever left, to the right to obtain semi-automatic fire. The magazine is removed by depressing the magazine catch located on the bottom rear of the pistol grip. The bolt can be locked in an open position by pulling back the safety catch. When moving with a loaded magazine in the weapon, the bolt can be locked in the forward position by rotating the knurled bolt handle ninety degrees.

When the firer desires to utilize the stock, he first presses the butt form flange to disengage it from a retaining stud and lowers the tubular butt until it engages in the downward position. He then presses up the spring-button behind the pistol grip and pulls the stock to the rear. If one desires to re-

move the stock, continue pressure on this button and pull the stock off.

For one who has fired a variety of submachine guns, the Ingram LIW's small size creates a certain amount of uncertainty. Will a long burst of automatic fire result in the barrel pointing skyward? Can you actually hit anything with what appears to be a "toy?" Can you control it? With the rapid rate of fire can you "walk" your rounds onto your target? After blasting off a couple of full mags, the first question was answered with a "no", the last three with a very positive "yes!" You do have to get accustomed to the light weight if you've blasted much with a Thompson, "Grease Gun," Swedish-K or even an Uzi. The problem disappears after you've worked your way through a couple of magazines. When firing from the hip with the extended stock snugged between the firer's right elbow and body, one can place several rounds in a silhouette target at 50

meters when firing 10 round bursts. A strap attached to the muzzle and grasped in the left hand allows the firer to prevent muzzle climb and the tendency of the piece to pull to the right. Firing from the shoulder produced more hits though I did not like the feel of the tubular butt stock in the hollow of my shoulder. According to MAC officials, "the shoulder position and sights are rarely used." I found that with a little practice one can squeeze off two or three round bursts during automatic fire. However, with the high rate of fire you must have quick reflexes.

Fired off-hand, which is not recommended, I really got a feel for the ease of control of the M-11. Due to the unique weight distribution of the bolt and the weapon's overall design, the muzzle did not rise appreciably even when firing automatic. Try that with a Mauser *Schnellfeuer* or Czech *Scorpion* and see (Continued on page 70)

TECHNICAL SPECIFICATIONS

	Model 10 <u>.45 ACP</u>	Model 10 <u>9MM Para.</u>	Model 11 <u>9MM Auto (Short)</u>
GUN DIMENSIONS WITHOUT SUPPRESSOR			
	<u>Inches</u>	<u>Inches</u>	<u>Inches</u>
Length without stock	10.50	10.50	8.75
Length stock telescoped	11.60	11.60	9.81
Length stock extended	21.57	21.57	18.11
Barrel Length	5.75	5.75	5.06
Maximum width	1.96	1.96	1.36
GUN DIMENSIONS WITH SUPPRESSOR ATTACHED			
Length without stock	20.35	20.35	16.25
Length stock telescoped	21.45	21.45	17.31
Length stock extended	31.42	31.42	25.61
Maximum width	2.13	2.13	1.75
SUPPRESSOR DIMENSIONS			
Length	11.44	11.44	8.81
Diameter	2.13	2.13	1.75
WEIGHT AND CAPACITY			
	<u>Lbs</u>	<u>Lbs</u>	<u>Lbs</u>
Gun without magazine	6.25	6.25	3.50
Suppressor	1.20	1.20	1.00
Loaded 16 round magazine	0.62
Loaded 30 round magazine	2.15
Loaded 32 round magazine	...	1.37	1.12
Loaded 36 round magazine	...	1.50	...
TYPE OF FIRE	Semi-automatic or full automatic		
FRONT SIGHT	Protected post		
REAR SIGHT, M10	Fixed aperture for 100 meters		
M11	Fixed aperture for 50 meters		
SAFETIES	Manually operated safeties for locking bolt in open or closed position		

INSIDE STORY

A VISIT TO

ASK ANY American gun owner what he looks for first when purchasing a new firearm, and his answer is sure to be "Quality." On the surface, this may be true, yet what he really means is a lot more complicated. Without realizing or admitting it, what he really looks for is quality in a price range he can afford, on a gun that appeals to his individual perception of aesthetics. However, all of the talk today is of quality, and therefore this alone shall be the theme of my article.

Like so many others, this thing called quality was on my mind when I recently visited the sprawling plant of Winchester in New Haven, Conn. I will, therefore, forego telling you about the manufacture of the various Winchester guns, and concentrate on how Winchester goes about controlling the quality of their products. I wanted to learn more about the testing techniques used, and I also wanted to talk to and observe the people responsible for quality control, and those at the manufacturing level. I would like to emphasize one of the key words in this statement, "people." I learned a long time ago that the finest precision instrument (in the quality control area it would be inspection devices) can perform its functions only if the operator (a) understands what he is doing, and (b) gives a damn about what he is doing. More on this, and an insight into one of the "confidential" operations of Winchester that

goes on behind the door marked "Authorized Personnel Only," a bit later on.

Let's begin by talking a bit about "quality control." This is a term often misunderstood by those not familiar with manufacturing techniques. To most of us, the term quality control brings forth visions of teams of inspectors stationed at or near the various manufacturing functions. True, this is a part of quality control, but only a part. In reality, quality control begins in a department called Product Engineering. Here is where the new gun design comes off the drawing boards and becomes integrated with the men and machines which will turn this dream into a reality. Any damned fool can design a gun, but this department separates the damned fools from the true engineers. It is the engineers, not the damned fools, who can design a gun with four important features. The first, of course, is that the design is saleable. The second is that it is safe—that it will withstand the pressures of firing and the damn-fool things that some shooters will subject it to. The third is that it is compatible with manufacturing capabilities. The fourth feature is that the design will function, and continue to function; that it is a "quality" design. Unless quality is designed into a product, the finest machines, the most competent workmen, and a platoon of inspectors cannot turn out a quality product.



Department heads work together to assure integration of design and quality. Here, left to right, are L. J. O'Connor, manufacturing superintendent; O. N. Lewis, project supervisor, project engineering; A. D. Seals, quality control engineer; and A. W. Woerheid, Jr., project supervisor of process engineering department.



One of the many Winchester quality control tests is shown here with Thomas Sheridan at a trigger trace machine. Since the trigger/sear assembly could be considered the heart of a firearm, this machine may be called the electrocardiograph of the gun industry. The resultant graph is studied carefully by the experts.

WINCHESTER

By JEROME RAKUSAN



Joseph Slattery of the test department connects a Winchester Model 1400 shotgun to Duplex chronograph. Gun is placed in vise and fired, and readings will indicate velocity of the bolt at various stages of its travel during complete cycle of its operation.

Paper guns do not shoot, therefore prototypes are made, and tested beyond imagination. They are function fired, yes, but the testing goes much beyond this. It enters a world of stresses, strains, mass relationships, force/displacements, internal component velocities, and many more factors that are, frankly, beyond my comprehension.

Satisfied that the prototypes meet the preset standards, the Winchester Product Engineers "tool up" for a small scale test production run. Tools, dies, fixtures and jigs are made, and the mass production—on an experimental scale—begins. Here is where the engineers find out if the product can be made with existing machinery; if new machines will be needed; how long it will take to finish each component and assemble the completed gun; and how the production line must be set up to achieve the closest thing possible to a straight or in-line flow. After this test-run, all of the information accumulated is studied, and a report is made to management on materials and components required from outside sources, and their cost; time and cost of in-plant components manufacture; total cost and time

required for the finished product; and compatibility with existing manufacturing schedules.

If the word is "Go," then the designers and Product Engineers have done their job well, and full production is scheduled. Looking back on the last several paragraphs, it all sounds remarkably simple. Believe me it is not. Of the many designs originating in the Winchester plant and whatever may come from outside sources, only a very few ever reach this, or any of the previously mentioned stages.

The gun is finally being manufactured, and now the term quality control, as understood by most of us, comes into play. The simplistic approach to quality control would be that each and every component be measured precisely; then, when they are all assembled into the final product, everything would work as it was designed to work. This would be great if you were making two, three, or even a dozen pieces, but it does not work when you want to satisfy the demands which require tens or hundreds of thousands of pieces. So, you do the next best thing; you provide the production department with tolerances. We've all seen these on blueprints or drawings—"Part 'A' will measure 1.37 inches, plus or minus .005". Through testing, it is determined that parts within these tolerances will work. But, suppose that you have three or four parts, each part of a chain of components, and suppose that each of them are at the high or low limit of the tolerances—that is, every part measures minus .005". In a chain of three parts, this would be .015" and could conceivably screw up the works. Sure, the final assembly and proof testing would tell you if these parts do, indeed work together, but what about after long useage? How do you—or rather, how does Winchester—make sure that any combination of components work. How does Winchester make sure that the guns coming off the production line are perfect images of the pre-production and test production models? Here is where you get a chance—for the first time as far as I know—to open that door marked "Authorized Personnel Only" and get to the most interesting part of this whole quality control story.

Remember when we had come to the point where a test production line was set up? When this was running, quality control engineers took a sample gun off the line, a rather unique sample, as we shall see. This one gun was examined, measured, tested and retested, and after all of this became the "Audit Sample." Every gun of the same model—during the production life of the model—is compared to this audit sample. So, as we walk through the restricted door, the first thing we see is a vault full of Winchester guns. There is a Model 1200, a Model 70, a Model 94, in fact, one of each and every model in the current line.

At regular intervals, five guns are taken—at random, and without any warning to (Continued on page 65)



GUNS and the LAW

Non-Lethal Weapons, Part III

OVER THE YEARS many civilians and some police officers have carried pen size, dust type tear gas projectors for self defense and official purposes. In law enforcement this practice is now minimal largely due to adoption of the tactically superior, more reliable and safer Chemical Mace® type liquid tear gas projectors.

During the last half of the crime-ridden decade of the sixties, tens of thousands of the tear gas penguins have been sold over the retail counter for protective purposes. The majority of these devices, mostly purchased by women, are approximately the size and configuration of the old fashioned fountain pen with a clip. Most models sold to the public fire a small charge of either CN or CS tear gas dust from a threaded cartridge screwed on to the end of the tube containing the firing mechanism. The penguin size cartridge is usually about that of a .38 Spl. case. A tear gas cloud about 4 feet in diameter is blown into the air by a sporting type rifle or shotgun primer activated by a striker in the body of the penguin. Sometimes a small quan-



Late production tear gas penguin.

tity of powder is used to increase the propellant force. A top wad of a hard moisture resistant material protects and retains the dry tear gas particles in the cartridge case. At the time of firing, the wad partially disintegrates and its fragments are expelled with great force along with the tear gas particles. For almost forty years law enforcement officers have had available other larger versions of this type projector. Generally the police models have consisted of the replaceable cartridge type that is inserted into a screw-on barrel. Models firing .410 and 20 gauge shot shells loaded with the tear gas particles have been and still are in use.

Over the past three decades police, prison and security guards have carried larger combination weapons called tear gas truncheons or billys. Tear gas billys are normally of all metal construction, with simple cocked striker firing mechanisms. They maintain the same configuration, size and weight of the traditional wooden model. The tear gas billy can be used as a striking and thrusting weapon or fired at individuals or small groups. It has little value in a mass riot situation. The most effective range of the billy is 5-15 feet. To deliver the charge, the point of aim is not critical. When pointed at the mid-section, the size of the cloud is large enough to engulf the face of the target producing a deterrent or subduing effect.

For riot control, police utilize a special issue 37mm (1½") all purpose gas gun. Barricade projectiles, long range burning tear gas projectiles and short range blast shells can all be fired from this weapon. The 37mm blast shell is used for short range delivery of a dust type tear gas cloud against rioters. Police manuals caution against firing into rioter faces and

most recommend aiming the weapon at the feet or lower extremities when firing.

Tear gas dust is also loaded into metallic pistol cartridges and shot shells for use in riot guns. Generally, however, the effectiveness of tear gas cartridges from conventional firearms, penguins or billys is in direct relation to the quantity of gas particles released. Smaller capacity types, especially in outdoor moving air conditions, are not too reliable at any range, other than point blank. Tear gas devices firing the dust form have no repeat capability and are not selective as to targets. When fired, especially indoors, the user, spectators and the victim can all be affected. Tear gas, released in a cloud form, is no respecter of persons.

Although much more detail could be written about each of the above mentioned models, they have one thing in common; they all operate by use of a cartridge blasting the tear gas particles into the air. Because of the discharge system used and wad loading there are some built-in inherent dangers and undesirable side effects.



Typical tear gas billy is 9½" long.



By COL. REX APPLIGATE

The whole object of the use of tear gas, in any form, is to take advantage of its non-lethal, temporarily incapacitating capability, *not to injure or maim*. Due to experience accumulated over the years, it is mandatory that all blast type tear gas penguins, billies or projectors *never be pointed and discharged into the face of the victim*. This is best illustrated by the following clipping:

EYES DESTROYED BY TEAR GAS: DAMAGES DENIED

Austin, Texas (AP)—A man whose eyes were destroyed by a policeman with a tear gas gun in the Eagle Pass, Texas city jail, cannot recover damages from the city, the Texas Supreme Court ruled Wednesday.

Hartford Luvaul sued the city for \$375,000.

He was arrested by Patrolman Jose Sifuentes on a charge of being drunk June 24, 1964.

Sifuentes took him to the city jail and ordered him to sit by a desk.

Sifuentes testified at the trial that Luvaul was cursing and got to his feet, picked up the chair and walked toward Sifuentes.

Luvaul testified he got up to ask if he could go to a water cooler nearby. He said three policemen including Sifuentes, advanced on him and Sifuentes was holding the tear gas gun. Luvaul said he thought, "My God, he's going to shoot my eyes out," and that he picked up the chair to put it in front of his face. The weapon discharged. Luvaul was placed in a jail cell. No medical aid was given him for eight hours. He lost sight in both eyes. These facts were not disputed.

The trial court granted the city

a summary judgment. The 13th Court of Civil Appeals affirmed the judgment.

The doctrine of municipal immunity applies to cases where a city employee commits negligent or wrongful acts in the performance of a governmental function.

Records show that the above type incident has happened too many times to be ignored. It is only recently that officials have become more aware that penguins in the hands of police and civilians alike have been accidentally discharged into hands, with consequent injury and permanent nerve paralysis, etc. Although correct and safe usage demands that these weapons be pointed and discharged at the mid-section of the body, unfortunately under combat tension, the instinctive act of most individuals is to point and fire at the assailants face. The weapon used in the Texas incident was actually a police type tear gas billy. Although the laws of Texas gave the municipality immunity, the injured party, Luvaul is currently suing the manufacturer for almost one million dollars. One of the basic claims of the plaintiff is that the maker knew it was a dangerous device and failed to advise, train or warn the local police department and Patrolman Sifuentes of this fact, etc. A similar suit against the same manufacturer involving police misuse of a penguin was recently settled out of court in favor of the blinded plaintiff for almost one hundred thousand dollars. At the time of this writing, four other suits, with claims for damages amounting to more than three million dollars, involving loss of eyesight are pending in Colorado, Illinois and Pennsylvania courts. These current legal actions involving police usage and accidental discharges have been filed against the user or carrier of the penguin, gasbilly or other blast type tear gas device, against the seller, the manufacturer and the police department. Recent court actions, legal rul-

ings, and published findings in the Journal of Forensic Science, relative to the effects of tear gas and wad particles when blasted into the human eye make it highly likely that some of these pending legal actions will also be settled in favor of the plaintiff. The legal and court reaction to future incidents is now such that any policeman, or civilian who carries a penguin or gas billy and misuses it in a moment of tension, or panic, by firing at close range, directly at the assailants face, *stands a good chance of losing a lawsuit involving heavy financial damages*. This trend seems to be irreversible, irrespective of the intent of the assailant, makers instructions as to correct usage, or actual circumstances involved in the devices' use.

Because of the development of the Chemical Mace® liquid type tear gas projector and its availability to law enforcement, there is no longer any real need for police useage of the penguin or gas billy type of weapon. Civilians carrying similar type weapons should also be aware of the legal penalties following incorrect usage. For most law enforcement agencies the risks of inflicting permanent injury and blindness are just too great when weighed against the tactical value. One major maker of penguins has discontinued manufacture. One of the two major firms furnishing tear gas equipment to law enforcement has ceased to market its line of dust type tear gas billies. It is quite likely that in view of current legal actions that companies still producing and marketing these devices will be unable to secure manufacturers liability insurance coverage and will also withdraw from the market.

It has only been in the past year that this situation and trend has begun to develop. Police agencies with an interest can now develop information on current court actions through their own legal channels. Information can be furnished on request.



Riot issue 37mm gas gun weighs approximately 8 pounds and is 29" long.

Guns VISITS THE NRA COLLECTOR'S ROW

HAVING just returned from the National Rifle Association's Annual, and this time Centennial, Show and exhibits in Washington, D. C., we spent most of our time on "Collector's Row" viewing the exceptionally fine displays by various gun collector's associations. The time, effort and understanding that each antique gun collector's association put into setting up their displays could be easily seen. Each exhibit was as engrossing and as interesting as the next. The collector's associations and groups are a credit to the N.R.A. for without them the exhibits would just be another sporting goods show. To describe a few of the displays and pick out the most important ones is difficult, but I will try, in both picture and words, to make you as familiar as I can with the happenings of this year's centennial N.R.A. Show.

The Michigan Antique Gun Collector's Association and their Canadian members joined together to tell the story of "The Undefined Border" with their exhibit of guns of the early settlers, the revolution, and the War of 1812. The Massachusetts Arms Collector's exhibit, in a salute to the N.R.A. included some of the most magnificent New England rifles and pistols to be seen in any museum in the world. The Ohio Gun Collector's Association once again outdid itself with a display showing the "Colt I-D-E-A" representing Invention, Dependability, Enterprise and Artistry. It was quite an unusual display, done with great imagination, and using one-of-a-kind arms. The Royal Oak Historical Arms Collectors, Inc. had an exceptionally fine display of Manhattan firearms as their theme. Some of the finest and rarest of Manhattan firearms manufactured from 1855 to 1873 were displayed here. The Kentucky Rifle Association had its usual display of magnificent Pennsylvania rifles and pistols.

The Maryland Arms Collector's Association displayed

five Kentucky full-stock rifles and called it "A Study Of The Work Of John Armstrong" who was one of Maryland's finest gunsmiths; and they were so right as the Armstrong guns were magnificent examples of the Kentucky rifle of the 1800 to 1840 period. The New Jersey Arms Collectors Club displayed as their theme, "Why Americans Collect Arms" and in it they showed that the reasons could be mechanical, historical, and decorative . . . an exceptional, fine display and a lot of thinking went into it. South Carolina Gun Collectors Association had a fine display of Confederate muskets, carbines, pistols and swords.

This covers just a few of the exceptionally fine collector's groups that had booths and displays at the Show. Along collector's row the visitors could also see exhibits by some of the dealers in antique guns who make the trip to Washington to show their wares. The large booth of



Kentucky Rifle Assoc. "Craftsmen of the Golden Age."



F. Remington bronze "Cheyenne" at Mandel booth.




Massachusetts Arms Collectors "A Salute to the N.R.A."

SHOW...

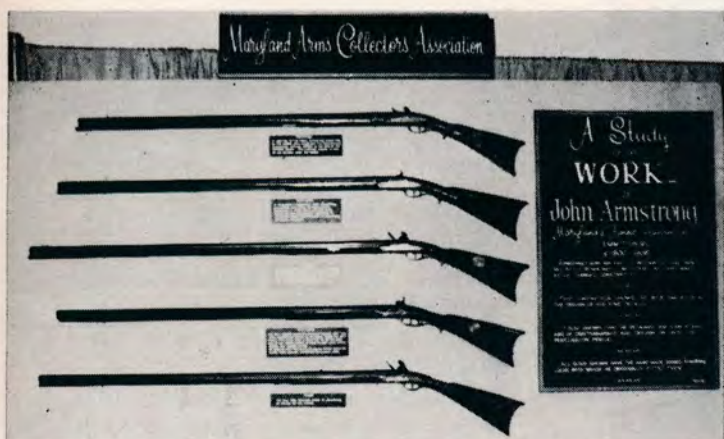
By GUNS STAFF

John Malloy of Danbury, Conn., and GUNS contributor Robert Mandel of Wilmette, Ill., was brightened considerably by a non-gun item; a fine bronze by Fredrick Remington titled "Cheyenne." Other dealers who displayed included Alan S. Kelley of Ridgefield, Conn., Arnold Chernoff of Lyons, Ill., and Dixie Gun Works of Union City, Tenn. (with a fine display of Southern Derringers).

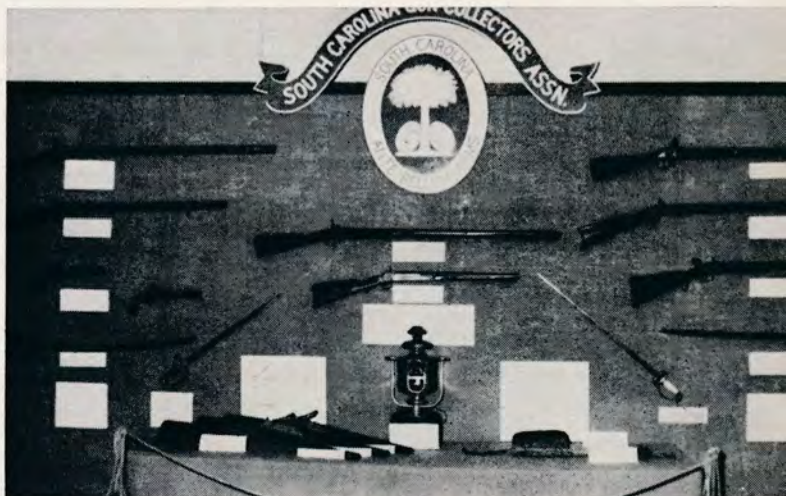
Collector's Row at any N.R.A. Show is always exciting, and in this, the Centennial year of the N.R.A., it was especially so. Next year (1972) I understand that the N.R.A. show will be held in Portland, Ore., giving all those who live west of the Mississippi a chance to see these fine displays—want to bet that there will be at least one dedicated to the Mountain Men? 



Display booth of Potomac Gun Collectors Association.



Maryland Arms Collector's "Work of John Armstrong."



South Carolina Gun Collectors Assn. "Ante Bellum Arms."

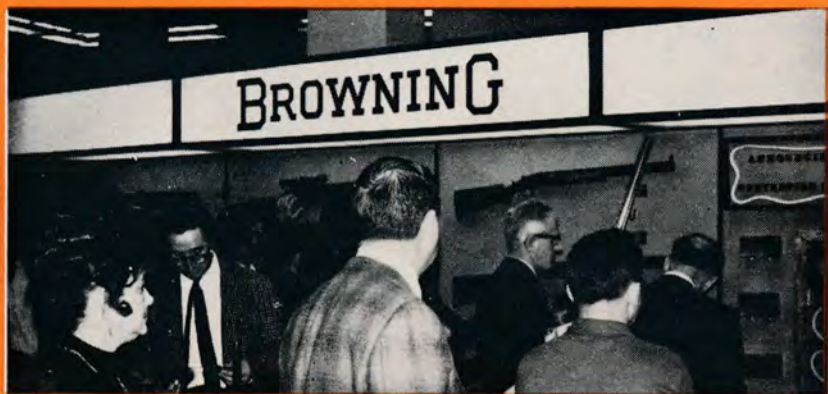


Southern derringers as displayed by Dixie Gun Works.



"Why Americans collect Arms" by N. J. Arms Collectors.

Guns VISITS THE NRA COMMERCIAL ROW



THE National Rifle Association, celebrating 100 years of service to America's shooting sportsmen, held its Annual meetings in Washington, D.C. April 2 through the 6th, and by all measures it was a resounding success.

More than 132 exhibit booths filled the hall of the Sheraton Park Hotel, and many thousands of visitors streamed through the aisles. The best that we can do here is give you the highlights of the show as we saw it; a complete list of commercial exhibitors will be found beginning on page 33.

One of the highlights of a show of this kind is meeting some of the people who represent the arms and accessory manufacturers. This is one of the few times that the shooter who just bought a Fajen stock can meet Reinhardt Fajen in person; where the man who shoots an H&R rifle can stand face to face with C. E. Rowe, President, and present his views; where the reloader can shake hands with Joyce Hornady the bullet maker; where the shotgunners can ask Bill Ruger: "Hey, when will you have something for the scattergunners?" and where the proponents of "punkin ball shooting" can trade theories with Roy Weatherby, sultan of high velocities.

To most of the visitors, however, it was the variety of guns shown that took the spotlight. Many of the guns were shown to the public for the first time, and most of them will be available at your dealer before too long. We cannot attempt to cover every booth, but we will try to give you the highlights of the show as we saw them.

One of the new items of interest was shown by **Birchwood-Casey Co.** It is a "browning" kit for those muzzle loader fans who want an original type finish. The samples appeared to us as being very attractive, and much more in keeping with the traditions of black powder shooting than a hard blue finish. The news from **Browning Arms**

SHOW...

By COL. CHARLES ASKINS

was the introduction of their own brand of ammunition; a rather complete line of metallics in both rifle and handgun sizes.

Displaying for the first time, **Champlin Firearms, Inc.**, showed off their very handsome over-under shotguns featured in our March issue. From the response it appears that these will be well accepted. There is not a show that goes by without something new and spectacular from **Colt**. This year, it was a double barreled effort. Colt is once again making black powder guns! The first offering of the "new" Colt 1851 Navy revolvers is in commemorative style. Handsomely cased guns will pay tribute to Grant and Lee. The second barrel from Colt announced the return of the Sharps rifle. Colt purchased all rights to this single shot gun from the Sharps Rifle Co., and after some re-designing, they now offer what will probably be one of the finest of the modern single shot rifles.

D. P. Bushnell is another firm that seldom lets a year go by without introducing something new for the shooting sportsman. New for 1971 is their riflescope with a lighted reticle; you have to see it to believe it. Also, there is a pair of binoculars that seem to be just the thing for rugged outdoor use; the bodies are made of fiberglass! **Reinhart Fajen** has a lot of new ideas, including a new cross-over stock; a ventilated fore-end for over-under shotguns; and heat-carved game scenes for his stocks. One of the really bright ideas shown at this show was the cartridge carrier offered by **Federal Cartridge Corp.** This comes free with every box of Federal center-fire ammo, and it sure does save time and trouble. **Garcia Sporting Arms**, as you know, now has a fine line of Beretta shotguns in addition to all of the wares previously offered by Firearms International—including the FN rifles, Sako, and Rossi. It is a line you should see. **Golden Age Arms** started



some time ago as a small supplier of muzzle loading equipment. Today, it is one of the largest, and when you see the rifles and kits offered, you'll know why.

One of the most handsome displays at the show was the one sponsored by **Harrington & Richardson**. It was built like an old fort, and contained a magnificent display of Springfield rifles. In keeping, of course with H&R's offering of a commemorative Trapdoor Springfield on their 100th birthday. This show was the first chance that shooters have had to see the new line of guns from **High Standard**. Some of the interesting items were the re-vamped line of auto pistols and revolvers, and the interesting shotgun with a

spare, short stock for youngsters.

Interarms of Alexandria, Va., had the first of the production models of their new 9mm and .30 caliber Parabellum pistols on display, and also their new "Star Gauge" shotguns. There will soon be a new line of Mauser riflescopes in all popular magnifications. **Ithaca Gun Co.** showed the new Perazzi single barrel trap gun and the new 600 and 700 skeet sets in which a common receiver will accept barrels for all gauges from 12 down to .410. The ever-expanding line of G-96 products from **Jet-Aer** filled all the space of their booth, but they still had room to show off the new G-96 hunting knife. **Lyman Gun Sight Corp.**, part of the Leisure Group, had

Les Bowman, consultant to Colt's on the Sharps rifle and GUNS staffer, holding the Sharps. Gun should be in production and on most dealers shelves by Fall, 1971 following exhaustive testing and some re-designing of the already excellent action mechanism.



all of their new reloading equipment on display, but the real eye-catcher was the Lyman black powder revolver; available in .36 or .44 caliber, it is a handsome, well-made firearm.

Marlin has a lot of new ideas, including a very handsome pump shotgun that will bring back memories and a new version of the reliable 39-A called the "Article II." Coming out of the original Mauser plant in Germany, and into the distribution facilities of **Mauser-Bauer Corp.** is a whole new line of fine firearms. The Model 660 rifle with interchangeable barrels starts the parade, followed by a classic Mauser bolt rifle, an over-under rifle, and a line of shotguns. The people at **Mayville Engineering** have been doing things right for shotshell loaders for many years, and they continue to improve their loading tools every year. The newest tool, the Versamec 700 is a perfect example.

Every time a new gun is announced, you can bet that "Uncle Mike" will have a sling swivel for it. Newest from **Michaels of Oregon** is a proper set of swivels for the Browning BLR rifle. **Pacific Gun Sight Co.** broke the news of their acquisition by Hornady. So now you can use the same company's equipment to reload their bullets. **Penguin Industries**, as you probably know, means Hoppe's gun care items, Lachmiller reloading tools, and the famous Penguin gun cases; all were well represented at the show. Another first time exhibitor at the NRA Show was **Al Popper**. He is offering a nice line of jewelry including some of the nicest tie tacks you'll ever see.

Ranging, Inc., displayed their unique rangefinder which is rapidly catching on with long range shooters and hunters. They also showed a dandy little monocular that attaches to the wrist, like a watch, so that it is always handy. **Redfield Gun Sight Co.** had such great success with their Widefield single power scopes that they have incorporated this extra wide field into a couple of variables. One of the handsomest displays at the show was that of **R.E.I. Engravings**, showing some very nice examples of easy-to-afford artistry. You could tell the varmint hunters at the show; (Continued on page 75)



NRA Exhibitors

Abercrombie & Fitch Co., Madison Ave. at 45th, New York, N.Y.

Antique and modern high-grade guns and accessories.

J. G. Anschutz, GmbH, c/o Savage Arms, Westfield, Mass.

Precision target-shooting rifles and accessories.

Bausch & Lomb, Inc., 635 St. Paul St., Rochester, N.Y.

Rifle scopes, binoculars, spotting scopes and sun glasses.

Sid Bell, Tully, New York 13159

Carved metal jewelry

Birchwood Casey Co., 7900 Fuller Rd., Eden Prairie, Minnesota

Gun finishes and lubricants.

V. H. Blackinton & Co., 100 Commonwealth, Attleboro Falls, Mass.

Medals, trophies and badges for the shooter.

Bonanza Sports, Inc., 412 Webster Ave., Faribault, Minn.

Reloading equipment and accessories.

Bor-Lok Products, 4200 California St., San Francisco, Calif.

Firearms safety locking devices.

Brownell's Inc., Route 2, Box 1, Montezuma, Iowa

Gunsmithing tools, supplies and accessories.

Browning Arms Co., Route 1, Morgan, Utah 84050

Firearms, scopes and accessories for the shooting sportsman.

J. M. Bucheimer Co., Airport Road, Frederick, Md.

Leather goods—holsters, belts, accessories, etc.

Buck Knives, Inc., 6588 Federal St., San Diego, Calif.

Hunting and fishing knives

D. P. Bushnell & Co., 2828 E. Foothill Blvd., Pasadena, Calif.

Binoculars, scopes, and shooting glasses.

Camdex, Inc., 15339 W. Michaels, Detroit, Mich. 48235

Reloading equipment and accessories.

Carpenter Insurance, Suite 930, Woodward Bldg., Wash., D.C.

Gun insurance for individuals, clubs and equipment.

Caswell Equipment, Inc., 1215 2nd Ave., N., Minn., Minn.

Target range equipment and accessories.

Century Arms, Inc., 3-5 Federal St., St. Albans, Vt.

Surplus rifles, shotguns and handguns.

Champlin Firearms, Inc., P.O. Box 3191, Enid, Okla.

Quality custom rifles and shotguns.

Charter Arms Corp., 265 Asylum St., Bridgeport, Conn.

.22 and .38 revolvers and accessories.

Coll's Firearms, Hartford, Conn. 06102

Handguns, rifles and pyrotechnic devices.

Colt Industries, Hartford, Conn. 06102

Military weapons.

Crosman Arms Co., Inc., East Church St., Fairport, N.Y.

Gas-air-spring guns, pellets, BB's and target systems.

Daisy Mfg. Co., P.O. Box 220, Rogers, Ark.

BB, CO₂ guns and Feinwerkbau match air rifles.

Dallas Cap & Emblem Mfg., Inc., 2924 Main St., Dallas, Texas

Swiss embroidered emblems and sportswear for shooters.

Charles Daly, Inc., 88 Chambers St., New York, N.Y.

Shotguns.

Day Arms Corp., 7515 Stagecoach Lane, San Antonio, Texas

Accurized handguns and rifles.

Detroit Bullet Trap, 2233 N. Palmer Dr., Schaumburg, Ill.

Target and range equipment and supplies.

E. I. DuPont De Nemours & Co., Wilmington, Delaware

Smokeless propellants.

Electromation Corp., 11 Lincoln St., Copiague, N.Y. 11726

Ultrasonic cleaning devices for gun parts, etc.

Reinhart Fajen, Inc., Warsaw, Mo.

Finished and semi-finished rifle and shotgun stocks.

Federal Cartridge Corp., 2700 Foshay Tower, Minn., Minn.

Small arms ammunition, components and accessories.

Freeland's Scope Stands, 3737 14th Ave., Rock Island, Ill.

B.S.A. rifles, shooting accessories and scope stands.

The Garcia Sporting Arms Corp., 329 Alfred Ave., Teaneck, N.J.

Sporting firearms.

Gerber Legendary Blades, 14200 S.W. 2nd, Portland, Ore.

Hunting and fishing knives.

Golden Age Arms Co., Box 82, Worthington, Ohio

Arms and accessories for the muzzle loader.

G.R.S. Corp., Box 1157, Boulder, Colo.

Engraving/chasing machine.

Harrington & Richardson, Inc., 320 Park Ave., Worcester, Mass.

Sporting rifles, shotguns, and handguns.

Hercules Inc., 910 Market St., Wilmington, Del.

Smokeless propellants.

High Standard Mfg. Corp., 1817 Dixwell Ave., Hamden, Conn.

Sporting firearms.

Hodgdon Powder Co., 7710 W. Highway 50, Shawnee Mission, Kan.

Smokeless propellants.

Hornady Mfg. Co., Box 906, Grand Island, Neb.

Jacketed rifle and pistol bullets and loading accessories.

Human Acoustics, Inc., 888 E. Williams St., Carson City, Nev.

Custom made and fitted hearing protectors.

Don Hume Leathergoods, Box 351, Miami, Okla.

Holsters, belts, etc. for police and sportsmen.

The International Mint, Box 1151, Washington, D.C. 20013

Commemorative coins and medals for the collector.

Interarms Ltd., 10 Prince St., Alexandria, Va.

Rifles and pistols, ammunition and accessories.

Ithaca Gun Co., Inc., Terrace Hill, Ithaca, N.Y.

Shotguns, rifles and gun cases.

Jet-Aer Corp., 165 Third St., Paterson, N.J.

Gun finishing and preserving materials.

Leupold & Stevens, Inc., P.O. Box 688, Portland, Ore.

Rifle scopes and mounts and compasses.

Lion Brothers Co., Inc., Owings Mills, Md.

Embroidered emblems for the shooter.

The Lyman Gun Sight Corp., Middlefield, Conn.

Gun sights, reloading tools and muzzle loading revolvers.

Marlin Firearms Co., 100 Kenna Drive, North Haven, Conn.

Sporting rifles and shotguns.

Master Engravers, Inc., Rt. 2, Box 189J, San Antonio, Texas

Gun engraving.

Mausser-Bauer Corp., 34575 Commerce Rd., Fraser, Mich.

Imported rifles and shotguns.

Mayville Engineering Co., 715 S. Street, Mayville, Wis.

Shotgun reloading tools and accessories.

Michaels Antiques, Inc., Copiague, L.I., N.Y.

Balle Blondeau shotgun rifled slugs.

Michaels of Oregon Co., P.O. Box 13010, Portland, Ore.

Slings and sling swivels for rifles and shotguns.

(Continued on page 64)



BLACK POWDER

Starting out for deer on Ralph Keeney's 278-acre tree farm near Springfield, Oregon are Alton Jackson, David Stejskal and Arlene Wright. They are walking along one of the many fire protection roads with their muzzle loaders at the ready. Keeney allows hunting on the tree farms with muzzle loading rifles only in an attempt to preserve primitive hunting techniques for future generations.



By JOHN H. HARDING

WOULD ANY sensible hunter consider a season in which only one buck was shot a successful one? What does Bill Fuller of Cooper Landing, Alaska have in common with former Governor Warren P. Knowles of Wisconsin?

The answer to the first question is yes. To the second, they both hunt with primitive weapons, specifically, the antique muzzle loader.

The successful one deer kill season took place in the Eastern Neck National Wild Life Refuge six miles south of Rock Hill, Maryland.

Said Edward F. Folsom, Refuge Manager, "One deer was killed with a primitive weapon (muzzle loader) in 1970. In spite of the fact that the success rate (hunting) was low (1%) most of the hunters were glad to get this opportunity to hunt and expressed a desire to return in '71."

Public deer hunts have been held for the past five years during October on the Refuge. These hunts included separate archers and shotgunners hunts. It was suggested in

Modern Day muzzle loader hunting is nothing new as is the use of home-made guns. 1949 photo of Judge Resley and a fine mule deer shot with his home-made rifle attests to his hunting prowess.



Members of the "One Shot Antelope Hunt" in Lander, Wyoming are from left to right: Richard B. Ogilvie, Governor of Illinois; Roy Weatherby, President of Weatherby, Inc.; John Harlow, Appleton, Wisconsin; Ralph Hurwitz, Springfield, Ill.; Gov. Warren P. Knowles, Wisconsin; Leo W. Roethe, President of Nasco Ind.; Harold Mares, member of the Wisc. One Shot team and Earl Jordan, a member of the Ill. team from Chicago.

HUNTING BOOM!

1969 by the Maryland Fish and Wildlife Administration that the Refuge consider the use of primitive weapons.

Folsom elaborated: "To get an idea of the potential demand for such use, we made provision for the use of these antique arms during the 1969 hunt."

The results were gratifying although due to the proximity of the Refuge to the Washington-Philadelphia-New Jersey-Baltimore megalopolis, special regulations were necessary to ease the hunting pressure (hunters per day) for safety reasons. For each of the four days of gun hunting, 150 permits per day were issued. Of these, 40 permits a day 110 went to the shotgunner. A total of 80 permits were issued. This interest resulted in plans for the 1970 hunt to include one day for primitive weapons only.

The 1970 hunt was a smashing success, at least from an interest viewpoint. A total of 146 permits were issued for primitive weapons users and 101 showed up for the hunt. Hunting of the white tail deer is relatively new to the Refuge and there is continuing research and evaluation of the deer herd. The muzzle loaders must abide by the rules established for the other hunters which include the removal of a jaw bone from every deer as it is checked out. The jaw bones are removed from the deer in such a way so as not to harm the deer for mounting purposes. There are no exceptions to this removal program and the muzzle loader is reminded taxidermists normally remove the jawbones in preparing a head for mounting. Legal hunting hours are, as in most places, from sunrise to sunset. The muzzle loaders only were permitted to hunt on October 23, 1970. Their pieces had to be .40 caliber or larger. Other regulations were generally in line with the rest of the country.

Of the same genre as the Eastern Neck Refuge, is the St. Vincent National Wildlife Refuge near Apalachicola, Florida. Here the similarity ends. St. Vincent is a 12,358 acre island located in Franklin county, Florida. All travel to it is over coastal waters. It is 9 miles long and 4 miles wide and as primitive as some of the guns used on it during its first muzzle loader's hunt season, December 12 through 15, 1970. No public transportation facilities are available. Hunters must arrange to provide their own transportation across the water to St. Vincent Island. The refuge has no mainland facilities for launching boats or parking cars. Once on the island, the hunter, of necessity, travels on foot. Campsites are unimproved and drinking water, except that brought in by the hunters, is unavailable.

Yet, despite the frontier living conditions, all the 1970 hunts for St. Vincent were filled. The reasons are easy to find if the muzzle loader checks out the species of game available. White-tailed deer (either sex, two per day, 3 per season), feral (wild) hog (any size, no bag limits), raccoon and possum (no bag limits).

As is the case with the Eastern Neck Refuge, each deer must be checked out for biological data at either entrance point (which also serve as campsites) at the East and West ends of the island.

Sambur deer, a large exotic type introduced to St. Vincent Island about 1905 and wild turkeys are seen frequently. As well as a few black buck, another exotic. Unfortunately for the muzzle loader, neither of these species are legal game. The Bureau of Sport Fisheries and Wildlife warns: "A young Sambur deer may be no larger than a white-tail, so be sure before shooting. The coat of the Sam-



Leo Roethe with a fine pronghorn antelope bagged with a .58 caliber muzzle loader. Many shooters of modern rifles feel that the muzzle loader does not have the killing power needed for such large game but records prove otherwise. Muzzle energy and velocities are such that a lot of game can be put down with one shot whereas a minimum of two shots are needed with the modern "high power" rifles, in many cases.

bur deer is generally chocolate brown and the ramp is buff brown."

During primitive weapon season on St. Vincent, muzzle loading percussion cap or flint lock rifles with a single rifled barrel of 40 (.40") minimum and a 58 caliber (.58") maximum bore are permitted. Stand hunting was not required during the 1970 hunt season. Other general rules governing the use of the island for hunting purposes are quite stringent to maintain the natural beauty of the habitat.

During the December 1970 hunt, 91 primitive hunters took a total of 29 deer and 21 hogs.

Have the corporate giants who have thrown much of their land open to the hunter provided anything special for the primitive weapons hunter?

When queried, George Hess, Manager, Resources Program for the Weyerhaeuser Company, Tacoma, Washington said: "Weyerhaeuser Company does not provide special areas for muzzle loader hunters at this time, primarily because there are no muzzle loader hunts requiring such accommodations in the states where we operate (the Pacific Northwest and the middle south)—at least to my knowledge.

"Virtually all our lands are open to hunting during regularly established seasons, so special hunts scheduled for other than modern firearms (bows, muzzle loaders, etc.) would find our land available." It seems in the case of the Weyerhaeuser Co. all the muzzle loader hunter has to do is become articulate for his cause.

Mrs. Nancy Bier, Public Relations representative of the Wisconsin-Michigan Power Company (WMPCO), indicated her corporation, which opens about 37,000 acres of land to the hunter, has an approach similar to Weyerhaeuser's. There are no special provisions for muzzle loader hunting. It is permitted at the discretion of the hunter, the primary prerequisite being: state hunting laws must be observed.

A sampling of the states on muzzle loader hunting shows:

Michigan—David A. Arnold, Game Biologist for the Department of Natural Resources explained, "There is no special season using antique guns. We permit the use of muzzle loaders throughout the state.

"In southern Michigan hunters are restricted to shotguns or muzzle loading rifles of a .44 caliber or larger during the regular firearms deer season." (Continued on page 71)



Minimum Charges For Game Requiring 1,000 ft. lbs. Muzzle Energy

Caplock	Cal.	Ball Weight	Powder Charge	Vel.	Energy
	40	95 gr	94 gr	2260	1078 fp
	40	95 gr	104 gr	2356	1172 fp
	40	95 gr	114 gr	2473	1254 fp
	40	95 gr	120 gr	2463	1281 fp
	42	120 gr	75 gr	2085	1148 fp
	42	120 gr	84 gr	2209	1288 fp
	47	160 gr	84 gr	1848	1200 fp
	48	170 gr	100 gr	1984	1479 fp
Flintlock	42	120 gr	80 gr	1936	1000 fp
	42	120 gr	100 gr	2136	1212 fp
	45	140 gr	80 gr	1826	1033 fp
	45	140 gr	100 gr	2011	1255 fp
	47	160 gr	80 gr	1818	1172 fp
	50	190 gr	80 gr	1617	1100 fp

Chart issued by the State of Oklahoma to muzzle loading hunters.

A black and white photograph of a Colt Frontier revolver and several bullets. The revolver is positioned diagonally across the frame, pointing towards the top left. It has a dark, textured grip and a long barrel. The bullets are scattered around the base of the revolver. The entire scene is set against a background of a large, circular wood slice with visible grain patterns. The text "COLT'S NEW 'FRONTIERS'" is overlaid on the left side of the image in a bold, stylized font.

COLT'S NEW "FRONTIERS"

By WALTER RICKELL

There's a whole new breed of .22 rimfire Colt sixguns that are improvements on the old Scout yet are priced lower. Here's a first hand look at them.

NOT OFTEN in these trying times does the shooter get a chance to buy an established product, made better, yet at a reduced price. If this sounds too good to be true, keep reading; I think that Colt Firearms has done just that.

Everyone, I am sure, is familiar with the Colt "Scout" revolvers; scaled-down versions of the Single Action Army with alloy frames. They have been available since about 1957, and were quite popular among those shooters who wanted an inexpensive plinker. Although they were great shooters, many people passed them by because of the alloy frame, and because what they really wanted was the Single



Action Army in .22 caliber. Well, the Scout, for all practical purposes, has been discontinued, and two new versions—vast improvements in my opinion—have taken their place.

The first of these new models is called the “Peacemaker .22.” It is the same size as the old Scout, but from there on, it’s all new. The frame is all steel with handsome color case hardening; the cylinder and barrel are finished in a high luster blue finish; and the grips are black plastic in the old Colt tradition, with the Rampant Colt emblem on the top and an American eagle at the butt, surrounded by deep, sharp checkering. The “Peacemaker .22” will be available with 4¾”, 6”, and 7½” barrels. For those who like tradition, the side of the frame is marked “PAT. SEPT. 19, 1871—July 2, ’72—Jan. 19, ’75” and carries the Rampant Colt logo. Another improvement on the new “Peacemaker .22” is the original-type cylinder pin latch, spring loaded, and not a simple screw.

That’s the new gun, and if you think you might have to pay more for all of these improvements, listen to this: The

old Scout sold for \$82.50; the new “Peacemaker .22” has a basic price of only \$69.50 (slightly more for the 7½” barrel length). An additional \$5.00 will get you the optional .22 Magnum Rimfire cylinder.

To add some whipped cream to this, Colt has a companion to the “Peacemaker .22,” a target version called the “New Frontier .22.” It is basically the same gun as the “Peacemaker” but it is made on the lines of the “New Frontier Single Action Army,” in that it has a flat top frame with adjustable rear sight. The barrel (available in the same three lengths as the “Peacemaker”) sports a ramp front sight.


We were fortunate to get one of each of the new Colt guns for test shooting; the serial numbers were G10093 and G11078. The “G” denotes the new frame style, and since the numbers of this new series started with 10,000, the guns we had were actually #93 and 1078. I wasted no time in getting them to the range, loading them up, and getting on with the tests. First, though, I should mention that the addition of the steel frame has really helped the



left and balance, and the added weight also has tamed the recoil of the Magnum considerably.

Sighting in the "New Frontier .22" at 25 yards, it took little time to get all the shots into the 10 and X rings. Shooting at 50 yards from a sand bag rest, ten shots went into the bull with the same accuracy I got from a fine target grade autoloader costing twice as much. The "New Frontier .22" has a base price of only \$79 or \$85 with the extra Magnum cylinder.

The trigger pull on our "New Frontier .22" was crisp and clean, and the short hammer fall, due to the $\frac{7}{8}$ scale design, lent itself well to target work.

After the target shooting, we took both of the guns to the 75 and 100 yard "gong" targets and found them both capable of an astounding number of hits even at these ranges. Later that day we spent the evening shooting CCI Mini Caps in the garage at a range of 20 feet into our bullet trap. From the almost quiet Mini Cap to the powerful Magnum is quite a range, and illustrates the versatility of the convertible .22 revolver. 



THE Spanish antique guns shown on these pages are from the collection of James D. Lavin, an assistant professor of Spanish at the College of William and Mary in Williamsburg, Virginia. A former Fulbright scholar, Lavin is the author of *History of Spanish Firearms*, the major source of information on Spanish firearms from the 1300's to the present. He collected much of the information for the book in the Palace archives in Madrid and at regional gun-making centers such as Eibar and Ripoll. His collection of Spanish firearms concentrates on particular Spanish gunsmiths, and each piece is representative of particular periods in Spanish weapons.

Spanish gunsmiths were Europe's finest during the 18th century. They were especially proficient in making gun barrels, which were imitated by other European gunsmiths who frequently forged the marks of Spanish gunsmiths on the barrels of the weapons. Barrels were the most expensive part of the gun; they equaled one-half the price of a weapon, but were used over and over again after the rest of a gun wore out.

Owners used their guns for personal adornment—thus the ornateness of many guns—as well as for protection and hunting. Madrid, Eibar, and Ripoll were three of the leading gun-making centers in Spain.



Early Spanish Pistols



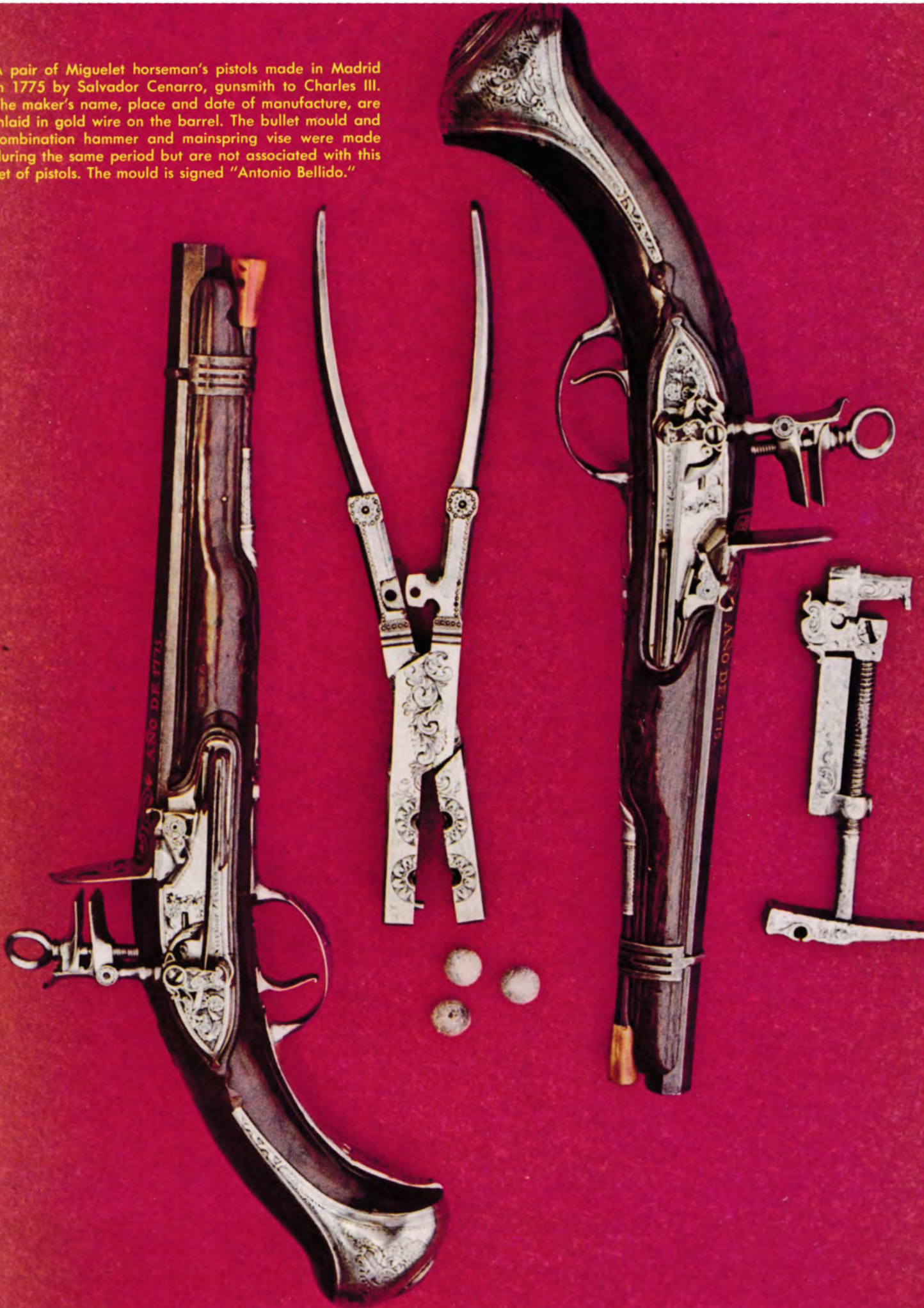
A Spanish miguelet lock pistol, this weapon was made in Salamanca around 1675 by Pedro de las Heras. Gold stamps on the barrel and lockplate contain the gunsmith's mark and countermark. The stock is inlaid with tiny platinum nuggets, and the chiselled decoration is of Italian influence. The tool lying on the book is an eslabon, a combination fire-striker, screwdriver, touch-hole and hammer for renewing flints. The pistol is one of the few Salamancan firearms in existence.





These 18th century pistols were made in Ripoll, an important Spanish gunmaking center from the 16th century until the town's destruction by the French in 1835. Unusual carbine-style pistols and stocks heavily inlaid with metal—in this case silver—were peculiar to Ripoll. Cloth patches immediately behind the locks are recoil pads. The ornateness of many Ripoll firearms, especially pistols, indicates their use as a form of personal adornment in addition to their other purposes.

A pair of Miguelet horseman's pistols made in Madrid in 1775 by Salvador Cenarro, gunsmith to Charles III. The maker's name, place and date of manufacture, are inlaid in gold wire on the barrel. The bullet mould and combination hammer and mainspring vise were made during the same period but are not associated with this set of pistols. The mould is signed "Antonio Bellido."



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GM AUG. GUNS Magazine



Allied Bayonets of World War II

By J. Anthony Carter
(Arco Publishing Co., \$3.50)

Continuing with the highly interesting books that Arco publishes under the heading of "Illustrated Histories of Twentieth Century Arms", this volume illustrates and describes all bayonets issued to the armed forces fighting against Germany, Italy and Japan between 1939 and 1946. The countries included in this category are Britain and the United States, together with the Soviet Union and also Australia, France, Belgium and the Netherlands, Norway, Denmark, Poland and Greece.

In spite of the fact that this, of all weapons, has the most rudimentary and obvious task to perform, no other arm has been so modified, altered, changed and replaced as the bayonet in this century. It is simply a blade intended to convert the rifle into a stabbing weapon, and really not much else. Excellent photographs and descriptions are the book's finest virtues. It is short and to the point (no pun intended) and the book contains only 80 pages. The author traces the history of the bayonet in each country from around the turn of the century up to the end of the war in fine details giving arguments for and against modifications of the blades; basically, the "why's" and "how's" of bayonet modifications. In his identification of each, he gives blade length, overall length, muzzle ring diameter (where applicable), weight and for which rifle the blade was intended.

For the bayonet collector this is an exceptionally fine book for identification and interesting reading. For the casual collector, it clarifies many points of interest. H.A.M.

Notes on U.S. Ordnance, Volume II, 1776-1941

By James E. Hicks
(Modern Books and Crafts, \$8.00)

As time goes on good books become scarce and the good authors and experts just seem to fade into the background. The author of this book, James E. Hicks, is/was a noted historian of U.S. ordnance and is known by many of the older collectors for his comprehensive writings.

This book gives detailed and authoritative information on just about every type of weapon used from 1776 to 1941. It covers everything from pistols to the heaviest coast artillery. Excellent pen and ink drawings, over 100 of them, illustrate Revolutionary War muskets, semi-automatic rifles and modern revolvers; machine guns from Gatlings to Brownings; famous types of cannon, 75mm, howitzers, modern mortars and anti-aircraft; all types of combat tanks and mobile mechanized units; and aircraft armament and bombs. The chapters are arranged thusly: Pistols and Revolvers; Muskets; Rifles; Machine Guns; Grenades and Mortars; Field Artillery; Railway and Coast Artillery; Anti-aircraft Artillery; Tanks and other Mechanized Vehicles; Artillery Ammunition and Aircraft Bombs; and a chapter on The Ordnance Department. This will give a good idea of the scope of the book.

The book was originally published in 1941 under the title, "What The Citizen Should Know About Our Arms And Weapons" and is extremely interesting for those concerned with martial arms. Definitely a credit to any arms library! We highly recommend it. H.A.M.

U.S. Army Sniper Training Manual, TC 23-14

(Paladin Press, \$11.95)

Continuing with the re-printing of Army manuals, *Sniper Training and Employment* is an excellent source of information for not only target and sniping work, but it would also be helpful to the hunter as it covers camouflage, shooting techniques and positions, correct lead, map and compass reading and necessary equipment for survival in the field. The book is hard-bound in a fine fashion and is complimented with drawings and photographs that fully illustrate sniper measures in all phases.

Essentially, this book is aimed at both the individual sniper and sniper teams and it could be considered the Army "Bible" on this phase of highly effective fighting. The sniper has always been considered the "rat in the woods" because of the more-or-less underhanded techniques used like hiding in trees, buildings, etc. But, like it or not, the sniper is a necessary individual, highly trained in the art of placing a bullet where it will do the most good and/or harm. TC 23-14 lays it all out on the line for some very interesting reading bringing up points that many people wouldn't think of to use in combat and sniper situations. One of the most interesting Army-type publications we've seen. H.A.M.

FOR
SAMPLE INFORMATION ONLY



THE WEST...

By E. B. MANN

SHOW ME A MAN who has read Walter Noble Burns' "Saga of Billy the Kid" or Stuart N. Lake's "Wyatt Earp," and I'll show you an expert on the western gunman; not just on Billy the Kid or Earp, but on the western gunman en toto. Lend him a typewriter and he is likely to become a writer on the subject.

Gun experts are even more numerous. You are almost certain to find one wherever three or more men are gathered together. Yet gun experts are rare indeed among writers about western gunmen. Logical though it would seem to be that a man who would attempt to write authoritatively about gunmen would consider it essential to know something about guns. The fact is that not one in a score of them knows beans about the tool essential to the gunman. And the more he researchs gunmen, the more he repeats the old absurdities.

Tall tales about shooters and shooting date back far beyond the western

gunfighter. Great shots with guns shooting rainbow-trajectory bullets get longer with each telling. Remember the one Dan'l Boone made from the walls of Boonesborough when, with a ball from his trusty Kaintucky, "Ol' Tick-licker," he killed the renegade slave, Pompey, who had been sniping from a treetop. Hit him square between the eyes, did Dan'l, at "a measured range of just 600 yards." (One wonders what kind of a rifle Pompey had, to make him dangerous at that distance.)

Another famous shot was made by otherwise unknown Fernando Herrera with "a big Buffalo Sharps" from a window of the McSween house in Lincoln, New Mexico Territory, during the showdown battle of the Lincoln County War, the controversial embroglio which made Billy the Kid an American legend. This bullet killed a sniper on a mountainside at a range which Walter Noble Burns says was later measured at 900 yards, but which has been printed up to 1600.

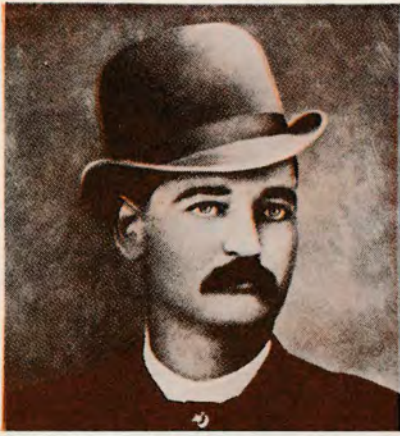
And even those great shots are far

overshadowed by Ned Buntline's off-quoted tale of Buffalo Bill Cody's slaying of a famous Indian chief—at a range of something like 200 miles! No, Buntline did not say it was that far, but later research proves that that's about how far Cody really was from the scene of the action. Range meant nothing in those days, given the right writer.

But the speed and accuracy of the western gunman has been the greenest of all fields for the Tall Tale tellers. Unchallengable champion in that arena is the man who wrote unblushingly of how that Texas preacher's boy, John Wesley Hardin, could "fan two guns simultaneously, so fast the shots could not be counted, and all shots cutting a playing card." How any man with less than four hands could do this is left for the reader to imagine; but readers did believe it, and repeated it times without number. Even granting the confusion among early reporters of the difference between "fanning" and what we know as "slip-hammering" the old Colt Single Action, this one is a dilly!

Close second, however, is the story of how James Butler Hickok, the redoubtable Wild Bill, firing alternately from a revolver in each hand and (naturally!) too fast for the shots to be counted, clipped a heel off the boot of each of twelve Bad Guys as they ran from him across that famous Square in Springfield, Missouri. No wonder they called him the Prince of Pistoleers! And how the bootmakers





Bat Masterson



Wyatt Earp



Wild Bill Hickok

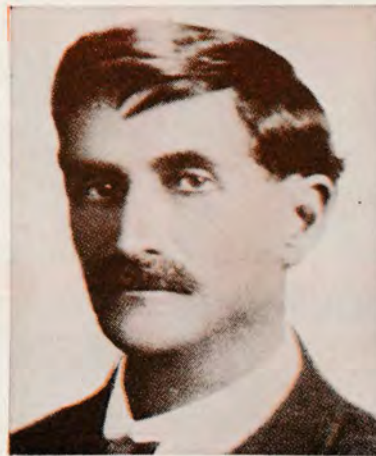
AS SHE WAS WROTE

must have loved him!

Oklahoman and professional frontiersman Fred Sutton deserves much of the credit, or much of the blame, for the wide dissemination of tall tales about western gunmen. Sutton claimed intimate acquaintance with many of them—with Hickok, Earp, Bill Tilghman, Cody, Pat Garrett, and others—and his reminiscences achieved the widest readership then possible by their publication (under the "as told to" byline of A. B. Macdonald) in the prestigious pages of the mass-circulation "family" magazine, "The Saturday Evening Post." A copy of that journal dated April 10, 1926 (and 232 pages thick!), here before me, provides rich reading for the student of western gunners.

Inevitably, Sutton re-told the tale that was the cornerstone of the great Wild Bill Hickok legend—the "battle" with "the McCandless gang" at the Russell, Majors & Waddell station at the Rock Creek crossing in Nebraska Territory. (The name was properly McCandles, but it is subject to many spellings, depending on who tells the story.)

"Wild Bill Hickok was not wild," Sutton tells us. "He was a cool, soft-spoken man of few words. And his name was not William; it was James. The name was given him when the McCandless gang cornered him in a cabin and he killed six or eight of them. His rescuers found him almost bled to death, staggering and groping among the (Continued on page 52)



Pat Garrett



"Buffalo Bill" Cody

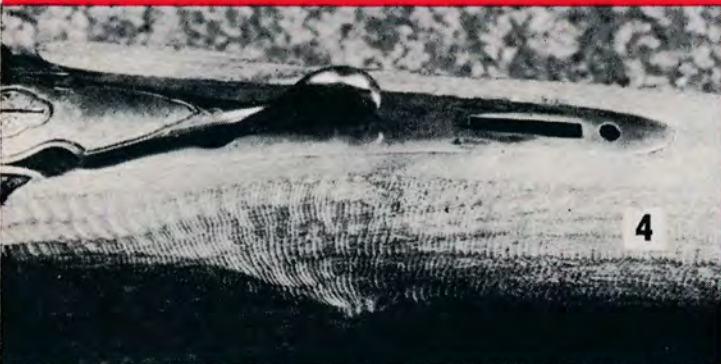
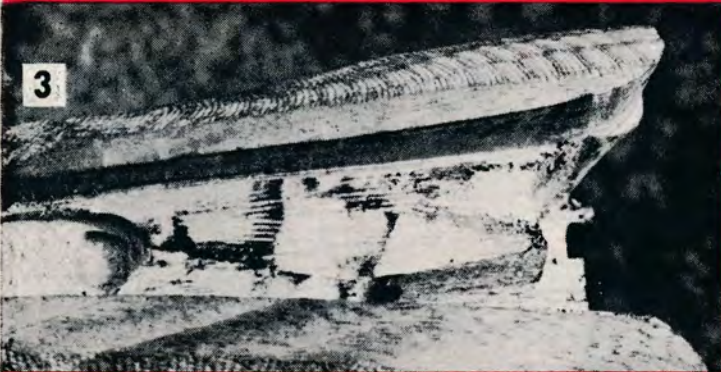
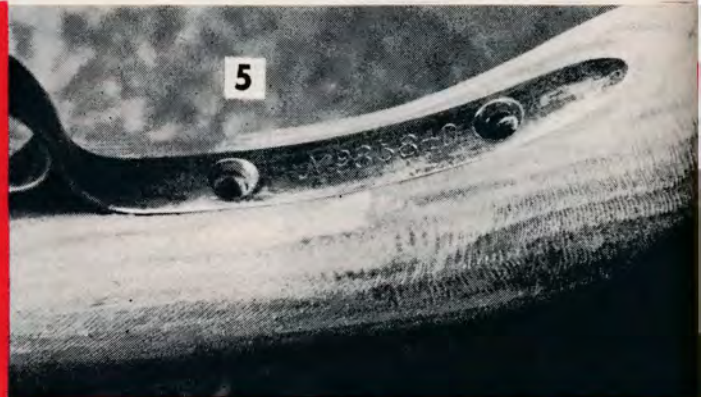
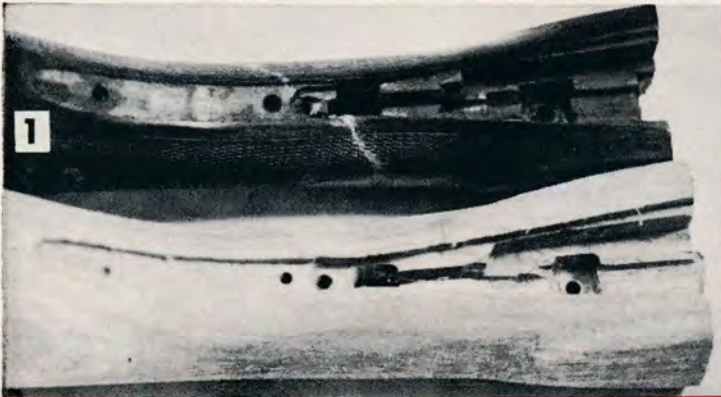


John Wesley Hardin



Daniel Boone

RESTORING GUNS YOU



CAN'T GET STOCKS FOR

By JIM CARMICHEL

THE VISION was heart rendering to be sure but nonetheless immensely intriguing. So, donning my best "not-especially-interested expression, I sided up to the gun trader's display of odds and ends and took a closer look at the tragic Francotti. The butt stock, which was broken cleanly at the grip, dangled limply by a single screw at the tip of the trigger guard extension.

"Too bad," I casually remarked, "Looks like it was a pretty nice shotgun." That "pretty nice" bit was probably the understatement of the year. The Francotti sprawled on the trader's table was one of the most finely fitted and finished shotguns ever fashioned in prewar Europe. Though this particular piece, the "Knockabout Gun" was at the bottom of the fabled Francotti line, it was still a superb example of the world's best craftsmanship. Aside from the ruined butt stock the gun was in fine condition with gleaming barrels, smooth-as-silk action and selective

ejectors. The engraving, though not extensive, had been executed with superb skill and taste and even the action's case hardened colors were still rich and unmarred.

"Why don't you have it restocked?" I inquired.

"Cost too much to have a stock made from a block of wood and I can't find a semi-finished and inletted stock for this make listed in any of the catalogs."

Somewhere in the back of my memory a little bell tinkled. It seemed that somewhere I had read or heard that semi-finished stocks for scarce or unusual firearms could be turned if the original, or the pieces of the original, stock could be furnished. Not certain of this but willing to take a gamble I decided that the Francotti was worth the risk—provided I could buy it right.

"How much for the pieces?"

"Does a hundred sound too much?"

"Yes, much too much, sixty-five would be more like it."

"Nothing doing, seventy-five is bottom."

"If I give you the seventy-five will you promise not to laugh behind my back?"

"How can I laugh when I'm crying?"

The money changed hands and I was picking up the pieces when the trader stooped and fished from under the table a beautiful russet colored, fitted leather trunk. "Almost forgot," he said, "This goes with it."

I love gun traders . . .

Back home I began searching through my catalogs for what I hoped was the source of my earlier hunch. Sure 'nuff, it was right there in the Fajen catalog; "If you do not find the make and model you need listed here, you may send in your original factory or military stock for a pattern."

Evidently the gun trader who sold me the Francotti had overlooked this brief but important message. I, of course, was delighted. This meant that all I had to do was send in the old butt stock to Fajen's and let them turn a low cost, easy-to-fit, semi-finished stock. Or, to put it in terms of dollars and cents, my beautiful Francotti, complete with new stock, would cost about \$100—not a bad deal . . .

Now I'm not suggesting that everyone is going to run into a prime Francotti with a busted stock for seventy-five bucks, but I do know for a fact that there are a lot of otherwise excellent rifles and shotguns, especially the more uncommon foreign makes, lying around with busted or cracked stocks. Far too many of these otherwise valuable guns continue to just simply lay around simply because their owners cannot afford custom stocks and don't realize that semi-finished stocks might be ordered. Perhaps you have just such a gun somewhere in the back of the closet just waiting for this lucky lightning to strike. . . .

The technique used by semi-finished, semi-inletted stock manufacturers for duplicating stocks is relatively simple: After gluing the broken pieces of the old stock together, it is chucked into a pattern tracing lathe. As the operator traces the outline of the original stock a high-speed router bit duplicates his movements on a new block of wood.

This method, which of (Continued on page 55)

1. Comparison of the original and the copy. Note the close machine inletting. 2. Using a home-made soot pot to coat receiver with carbon. 3. Detail of marks left on wood by spotting-in with soot. 4. Detail of close inletting of top tang extension. A chisel has been used to work the wood down flush with the metal. 5. Detail of inletting of the trigger guard extension. 6. Small pad of sandpaper is used to work close to the metal. 7. Rubbing on the finish. Four coats did the job well. 8. Checkering stock using the original pattern from the old broken pieces. Not counting the time required for the finish to dry, this could be considered a weekend project for the average worker. To make everything as good looking as possible, the fore-end should probably be refinished as well, including touching up checkering.



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PULL!

By DICK MILLER

AUGUST is Grand American month! The Grand is a personal World Series and Super Bowl rolled into one for the trapshooter. No minor league baseball player can thrill to participation in the World Series, and no sandlot football player can walk away with the biggest prize in the Super Bowl.

But, if the pattern of seventy-two years of history is repeated during Grand Week, August 23-28 in Vandalia, Ohio, some unknown and unheralded shooter will win the biggest prize of all, the Grand American Handicap on Friday, August 27, 1971.

And, if the pattern set over nearly three quarters of a century holds true, the Handicap winner will not be a repeat winner. No past winner of the Handicap has ever repeated his victory. There are no personal dynasties to be broken up in handicap trapshooting.

A few men have been close, and have placed high after having once won the handicap championship, at least until August of 1971, but no one has repeated. This pattern does not hold true for the major 16-yard and doubles championships. Several men have repeated their victories in these events a number of times over the years, and even in consecutive years.

The Grand American is the oldest and largest national sports tournament in the world. It does not rate the publicity and coverage of a World Series or a Super Bowl, but it is no less glamorous and exciting for the participants and spectators who converge on Vandalia in August each year. The Grand is truly unique among major national sports tournaments in that no participant is required to have won as much as a single trophy in order to compete in the championship. It is possible, for example, that a shooter now reading this column would decide to go to Vandalia and compete in the Grand. If his score is the highest in any given event, he wins the championship and all the money that his entry fees entitle him to. Of course, a

shooter with no record of registered targets fired in ATA sanctioned tournaments will compete at a penalty handicap yardage or in penalty classes for 16-yard and doubles.

By that I mean that a shooter who has been assigned a handicap yardage by the ATA and whose targets have been recorded with this national governing body of trapshooting, and has posted the required number of targets will compete in the Grand from the yardage which his past performance indicates is a fair measure of his ability when compared with other shooters. The same holds true for 16-yard and doubles. For example, a shooter who has the required number of handicap and/or 16 yard or doubles targets would compete in the Grand at, say 21 yards handicap, Class B in 16-yard, and Class C in doubles.

If he has no record, he could be assigned any higher yardage and have to compete in Class A or AA for 16-yard and doubles. The theory here is that if he can win in these echelons, with no past performance criteria, more power to him and he is entitled to all that he can win under these classifications.

That could describe you, the reader. Grand championships have been won by a shooter who decided to come along with friends at the last minute to keep them company, and not intending to shoot. Grand trophies went to a truck driver who parked his truck long enough to say that he had shot in the Grand, and who won over five thousand dollars for his stop en route. Last year's Grand American Handicap Championship on Friday was one of the most exciting and hotly contested in all of the Grand's 71-year history. Five men tied with scores of 98x100, and it took winner Charles Harvey fifty extra targets to win the big one. The other four men in order of finish were Jack Neal, Lloyd Combs, William Welkamp, and Charles Krallinger. Five more men took the remaining five trophy places

(there are ten trophy places in this event) after surviving shoot-offs and breaking 97x100 during the day. In order of finish, they were Ray Karpicz, Wayne Anthony, Don Kagle, Carol Harman (a woman) and Frederick Coates.

Women might be interested in noting that when the big day was over, one of their sex had bested all but eight of the approximately four thousand shooters who recorded scores during the day, and that she broke only one less target than the big winner. She also had to survive a grueling shoot-off of one hundred more targets to gain her trophy place. She recorded scores of 24-22-22-21 in the blistering shootoff after completing her regulation one hundred targets with the 97x100 score.

For the record, Herman Welch won the special event for past GAH winners with a score of 92 from 25½ yards, followed by a 24 in a shootoff.

As I indicated in the beginning, the 16-yard title often goes to a big name shooter. The 1970 Clay Target Championship of North America, which is the major individual 16-yard trophy, went to Dan Orlich. When Dan Orlich, the former Green Bay Packer who manages Harold's Club in Reno, wins a championship, that is not news. He did have to break 200 straight and then grind up 300 more to best Hiram Bradley who could only manage 499 of the 500 targets. High-over-all, a trophy based on one thousand championship targets went to Larry Gravestock with a score of 967. He bested Gene Sears, Frank Little, and George Snellenberger for this trophy, all of whom are no strangers to the winner's position and national publicity.

Gene Sears scored again with the All-Around championship which is awarded for the best score on 200 16-yard, 100 handicap, and 100 doubles in the championship races. He dropped just ten targets to edge Jimmy Brown by a single target.

The best score recorded for the whole Grand American week in 1970 was recorded by industry shooter Bob Oxsen from Livermore, California who broke 972 of the week's 1000 pressure-packed targets. Shooters employed by the arms and ammunition industry compete in a separate category and do not compete head-to-head with amateurs.

Ironically, clay target shooting is unlike most sports, in that professionals whose business is shooting may not win cash prizes in competition with amateurs, who may win all the money their ability will bring.

The 1970 Doubles Championship was also a major confrontation between big names, with Britt Robinson

outlasting Bueford Bailey for the trophy after both had broken 99 of the regulation 50 pairs of targets. The shootoff scores in this event were 19-20-19-20 against 19-20-19-19, with the one target in the last frame again being the clincher. George Snellenberger, Frank Little, and Boyd Williams, of the Williams shooting family, rounded out the five trophy spots when they fired scores of 98 and survived one shootoff.

Next to the Grand American Handicap on Friday, the biggest pot of gold and best attraction for the unknown gunner is Thursday's Preliminary Handicap, which is simply a dress rehearsal for the next day.

1970's Preliminary Handicap winner, Frank Hall, probably had the best position of the entire week. He fired the only 100 straight from his 22 yard spot, then could sit back and wait for the pack to try to match him. Two men, Clay Stultz and Tim McCame came closest with 99 from 20½ and 22 yards respectively. Stultz went 22-25 in the extra stanza to McCames 22-24 to take second. Four 98 shooters won shootoffs for the next four places (this event on Thursday offers seven trophy places). They were, in order of finish, A. L. Willaert, William Barrett, Tom Giese, and Frank Haynes.

ATA management very wisely gives the hopeful handicap shooter one last shot at gold and glory in an event fired on Friday and called the Vandalia Handicap, fired over the same course and under the same conditions. Five trophy places are at stake in this championship. Leroy Bayliss and Morris Worrell deadlocked for this one in 1970, with the trophy going to Bayliss after his 24 in the shootoff, one target better than Worrell's effort. Ninety-eights posted by Ronnie Matheny, Roy Daniels, and G. R. Hanchell garnered the rest of the hardware via shootoff scores of 25-24-and 23 in that order. There are many more trophy places, too numerous to cover here, such as all the women's, juniors, sub-juniors, seniors, and all the class championships all the way through Class D, plus special husband and wife, parent and child, brother and brother programs, which bring almost as much or even more satisfaction to the winners as do the more publicized championships.

So, you can see that whether you shoot or simply want to watch, the week of Aug. 23-28 (with preliminary days of Aug. 20-22) is a great time to head for Vandalia, Ohio, for the whole family. One word of caution—don't leave home until you check for room reservations in the greater Dayton area. Housing is tight in the area during the Grand.

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THE WESTERN WRITERS

(Continued from page 47)

bodies strewn about the floor; and Doctor Thorne, who found seven bullets in his flesh and sewed up numerous cuts from that fight, asked him how he could stand up and fight in such a condition. 'When they all jumped me I went wild,' he answered, and the name stuck. Bill was the usual frontier tag."

Actually, only three men were killed in the Rock Creek Station mess, one by Hickok with a shot from inside the cabin, one with a hoe and one with a shotgun wielded by Hickok's two companions. All three died outside the cabin, leaving no "bodies strewn about the floor." And Hickok was not wounded, either by knife or bullet.

The word "wild" in the Hickok monicker probably did come from Hickok's use of it in the story of the fight which he told, not to any attending doctor but to a magazine writer, years later. But the "Bill" is better traceable to a name McCandless pinned on Hickok and which was certainly a factor in the enmity between them. McCandless, impressed by Hickok's arching nose and long upper lip (later camouflaged with lush mustaches), called him "Duck Bill"—which is the name by which Hickok is identified in the court papers relating to the trial in which Hickok *et al* were tried and acquitted of the McCandless killing.

Sutton was authoritative about what guns the gunmen used, and how they used them: "The best gunfighters never touched the triggers of their six-shooters," says Sutton. "In the last fifty years I have known most of the marshalls, sheriffs, and bad men who earned a reputation, and few of them ever pulled a trigger, or owned a six-shooter with a trigger that could be pulled. The majority were fanners, and they used single-action guns."

Sutton then explains the difference between single-action and double-action revolvers, and says, "The most expert gunmen I have known selected single-action six-shooters, generally of .45 caliber, and the first thing they did with them was to put the triggers out of commission. The gunman took the gun apart and filed off the dog . . . (so that) When the parts were put together again, the trigger was dead, and the hammer, when pulled back by the thumb, would fall as soon as released. At home I have a collection of guns . . . among them the

six-shooters used by the most noted gunmen of the west, and in the majority of them the mechanism has been filed to make the trigger useless."

I never saw Sutton's collection, but I have seen a number of guns alleged to have been owned by western gunmen, and I have never seen one in which the trigger was inoperative. Which, of course, proves nothing.

At least Sutton did tell us what he (and doubtless others) meant by the word "fanning." Today, "fanning" means holding the gun in one hand, slapping the hammer back with the other, and letting the hammer fall to strike the primer. "Fanners" today seldom alter the mechanism to free the trigger; they hold the trigger back with the forefinger of the hand holding the gun. Great speed and even some accuracy are possible in "fanning," but there is no record, to my knowledge, that any gunfighter, past or present, ever used it in combat. Ed McGivern, for my money the world's greatest authority on what could and could not be done with a revolver, said, "Only a fool would attempt to fan a gun at a shoot-back target. Fanning requires perfect split-second fraction-of-an-inch coordination between two hands in fast movement, and one slip would get you killed! It's a stunt; always has been, always will be."

But here's how "fanning" was done in those days, according to Sutton: "An adroit gunman could raise the hammer and release it with his thumb so rapidly that the five shots would follow one another without a discernable break in the continuous B-r-r-r-r-r-r of the reports. That is called fanning. All the fastest shooters in the old days were fanners. They had to be, to survive."

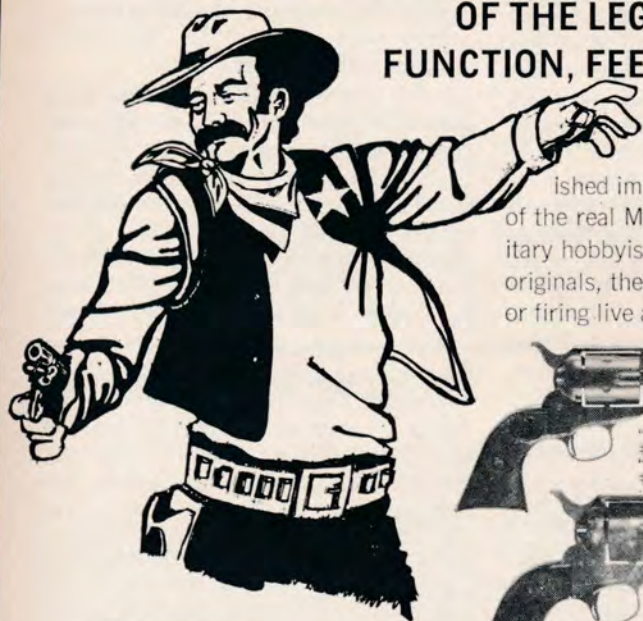
Today, we call that "slip shooting," or "slipping the hammer." I've seen it done; done fast, but not *that* fast; done with accuracy enough for combat. Here, Sutton may have been telling it the way it was—though more than one of the old gunmen denied using the method. Maybe they were among the few Sutton didn't know; or maybe they were keeping a life-saving secret? You take your choice.

One thing that may have somewhat clouded Sutton's certainty about the guns is the next-to-impossibility of pinning a given gun to a given owner. Bat Masterson presented sev-

(Continued on page 54)

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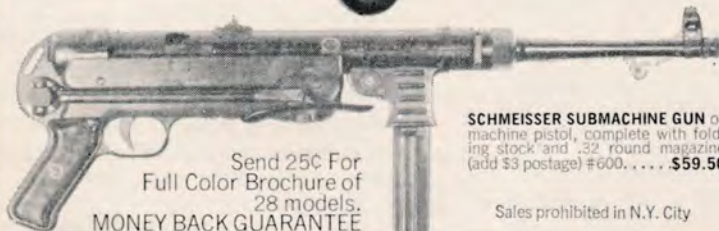


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(Continued from page 52)

eral guns, each complete with notches, to as many friends, labeling each as the gun with which he had done most of his lawman-ing. It was Bat's idea of a joke. This and similar problems haunt today's collectors.

At least one of the guns in Sutton's collection was a phoney, even though Sutton had every right to think otherwise. Telling the story of Hickok's death, Sutton repeats the old legend of how Hickok, though shot through the base of the brain and instantly dead, "drew both guns, as intuitively as he drew his last gasp of breath."

"The gun that was in his right hand then," says Sutton, "is in my collection. He had carried it only two years before his death, but there are fourteen notches cut by him in its stock. Pat Garrett, a famous United States Marshall, fell heir to the gun. He carried it for several years and filed three more notches in its stock, one of which was for Billy the Kid, who was killed by Garrett with this gun. Garrett gave me the gun two years before he was killed by Wayne Brazille."

What a collector's dream! The gun Hickok drew as he died, and the gun that killed Billy the Kid—all in one priceless package!

But there are in that single paragraph of Sutton's a number of things open to question. The man last named in it was Wayne Brazil, not "Brazille," and few students of the Garrett saga believe that Brazil killed Garrett. Many, for that matter, doubt that Garrett killed Billy the Kid! I doubt that Hickok (or any other of the "great" ones) notched his guns. Several are on record on the subject, labeling it "a show-off's trick, and show-offs didn't last long in the show-downs."

The one fact in Sutton's paragraph is that Garrett *did* give Sutton a gun. A letter from Garrett to Sutton authenticates the gift, as follows:

"Dear Fred:

"... This morning I met our old friend, Bill Tilghman and we had a good visit. I am sending you by him the Wild Bill six-gun you have wanted so long, the Colt's .45 No. 139345, with the dog filed off, and engraved 'Wild Bill' on the handle. This is the gun I put your friend, Billy the Kid out of business with at the Pete Maxwell ranch on July 14, 1882. Wild Bill had this gun on when Jack McCall killed him.

"Truly your friend,
 "Pat. F. Garrett."

The letter is authentic; at least, I know of no denial of the fact that

Garrett wrote it. Why he wrote it is another question, because the gun is not what Garrett said it was, and Garrett knew it. That Colt Single Action Army .45, Serial Number 139345, according to a letter from Colt's own department of records,

"... was sold and shipped to our distributor, E. K. Tryon, Philadelphia, Pa., on April 14, 1891, almost nine years after Billy the Kid supposedly met his demise . . ."

. . . and fully fifteen years after James Butler Hickok was killed in Deadwood, August 2, 1876. Can it be that Garrett, like Masterson, decorated a gun not only with notches but with a tall, tall story as to its history, and gave it to a friend as a "favor?" Pat Garrett is not noted as a jokester, but—what other explanation is there?

As for the gun Garrett was wearing that famous night in Pete Maxwell's house in Fort Summer, whether it killed Billy or not, it was the subject of extensive litigation years after gun No. 139345 was given to Sutton. The gun sued for by Garrett's heirs was also identified, by Garrett, by his heirs, and by other testimony, as "the gun that killed Billy the Kid;" and that gun rests now, to the best of my knowledge and belief, in an Albuquerque, New Mexico, bank vault, the property of Jarvis Garrett, Pat Garrett's son. (But I warn you, inquiries about it will get you nowhere! Jarvis Garrett has sworn never again to lend aid or sympathy to any further investigation about his father or his father's guns! He says, "Too many lies have been told already!")

That nasty habit manufacturers have of recording guns by serial number and date of production and/or sale has played havoc with many a claim that a certain gun belonged to a certain man or was used on a certain occasion. Even the date of a model's first appearance is enough to trip some claimants.

A case in point appears in Richard O'Connor's book, "Wild Bill Hickok." O'Connor repeats most of the old tales, refutes some of them, but accepts many. He adds one that is brand new, at least to me, when he states flatly and repeatedly that "Hickok . . . favored the double-action Colt .44, with the catch filed down for hairtrigger quickness in squeezing out every bullet in its chambers."

This suggests a truly amazing precocity on Hickok's part. Hickok was killed in August, 1876. But Colt's first double-action revolver (famously known as the Lightning Model) was not put on the market until January, 1877! In view of which it is probably useless to ask what "catch" Hickok

could have "filed down" to achieve "hairtrigger" double action. That's too bad; a lot of revolver makers (and shooters) would like to know.

But one of the strangest stories ever attached to any wild western hero or villain appeared neatly boxed in the April 9, 1966, issue of the Chicago Daily News. It was titled "NO KIDDING?"

"Washington (UPI)—Jarvis P. Garrett of Albuquerque, New Mexico, got a letter this week disclosing the whereabouts of the dangerous outlaw, Billy the Kid.

"But the letter was a little late to do anything about it, since the letter was posted 85 years ago to Garrett's father, Pat, then Sheriff

of Lincoln County, New Mexico Territory.

"It was Sheriff Garrett who gunned down young Billy on July 14, 1881 about three weeks after the letter he never got was mailed to him by Zeferino Saenz of Arabela.

"The Post Office Department gave no reason for the 85-year delay in delivering the letter."

True or not, the story is neither more strange nor less credible than many others told about Billy the Kid and his contemporaries. Cited here are only a few of hundreds. The ancients had their myths and legends; Americans had their western gunmen.

DO-IT-YOURSELF STOCK

(Continued from page 49)

course requires specialized machinery and skilled operation, produces stocks which are nearly exact copies of the original. This same machinery is used for manufacturing production-run semi-finished stocks with several stocks being turned out at a time on the multiple spindle tracer lathe. This, of course, explains why the standard production models are somewhat less expensive than the "special run" jobs such as my Francotti, which are produced one at a time. Too, there is the extra time required searching around the woodshed for a piece of wood which closely matches the original.

Even so, the total cost of my Francotti butt stock was only \$25.00. The wood, both in color and texture, was a good match and the shaping and inletting was delightfully close.

Of course even with the semi-finished stock in hand there is still the problem of getting it properly fitted to the metal. This isn't necessarily a difficult job, nor does it require special skills or fancy equipment. Even those who have never made a stock can do a first rate job on the first try provided they are willing to take their time and pay attention to details.

The only tools needed are a couple of screwdrivers, a narrow chisel (about 3/8" wide), a small curved chisel, a hand drill, a half-round cabinet rasp and a few pieces of sandpaper. Also you'll need a good sharpening stone to keep your chisels sharp. In order to emphasize the importance of keeping your chisels razor sharp, let me impress upon you the fact that dull tools account for as many botched inletting jobs as lack of skill. Fitting a semi-inletted stock

doesn't require skill and patience, but it does require patience and *sharp tools*. If you have these two essentials there's nothing else to worry about.

Begin work with a close examination of the inletting of the old stock. Pay particular attention to the recoil surfaces and their relation to the mating metal surfaces. With shotgun stocks in particular, it is important that the recoil be distributed over as much of the wood as possible. An uneven distribution of the recoil stresses will quite likely result in another broken stock.

Before beginning inletting, remove the bottom tang, trigger plate and triggers, sear levers, safety and anything else that will interfere with installing the receiver and top tang extension in the stock. This minimizes and simplifies the inletting process and helps eliminate foul-ups. Once the receiver is properly in place the other parts can be fitted in order.

For getting a hairline fit nothing beats the age old "spotting in" technique. This simply means that the metal is coated with an agent that will leave a mark wherever the metal touches the wood. There are two or three excellent spotting compounds on the market or you can make your own "spotter" by simply punching a nail hole in the lid of a small jar, fitting a rag wick and using kerosene for fuel. The sooty kerosene flame will coat the metal with a layer of carbon black that leaves a distinct mark on the wood.

The "trick" to successful inletting is simply learning to take a tiny slice, rather than a big gouge, wherever the

(Continued on page 58)

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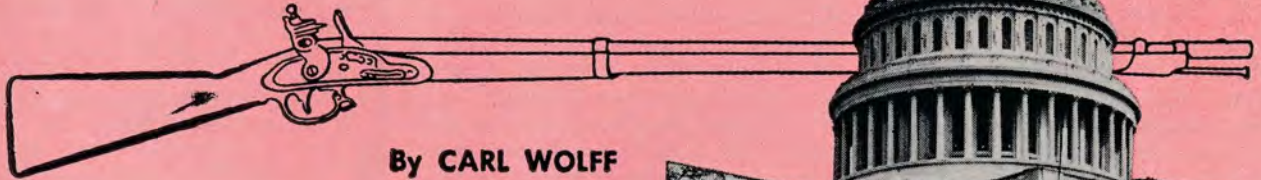
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OUR MAN IN WASHINGTON



By CARL WOLFF

The past 100 years have seen the National Rifle Association grow from a small group of National Guard officers, concerned about the poor marksmanship of citizen soldiers, to the biggest and most powerful sportsman organization in the Nation. During their centennial year they are one million strong and have a new professional as their staff head.

General Maxwell E. Rich is a sharp-eyed citizen soldier with his feet planted firmly in the organizational structure, having come up through the NRA elected ranks following his retirement from the military. He resigned from the elected rank of Vice President to take over the staff position of Executive Vice President.

The NRA has shown its greatest growth during the recent period of stress, when the right to keep and use firearms for lawful purposes was threatened. The strength of the NRA is in its reputation among gun owners for protecting "The Right to Keep and Bear Arms." Its weaknesses are two-fold: lack of supporting affiliates on the local level and its single foundation of representing the "shooters."

General Rich pointed this out to the membership during their Centennial Meeting here in Washington this Spring. He told them that it was only natural that during recent anti-gun periods that concerned Americans would rally to the NRA. "It is now up to us," he said, "the NRA and its State Associations—to provide the incentive for our members to stay, for nonmembers to join our ranks. For this, we must develop new programs, expand those which have been successful, and, above all, strengthen our State Associations."

Like his predecessor, Frank Orth,

Maxwell Rich is concerned that NRA have an effective plan for this next decade. The importance of a growing membership is obvious to the shooting fraternity. It gives the Nation's gun owners strength and provides funds for services and programs.

General Rich believes that, over the long run, "sales" are best built on the value of the product offered. "If we can increase the value of NRA membership for those who are our 'prospects' then the task and the expense of increasing membership are less, and the degree of success is greater," he has said.

The planning of the various activities and programs is a national function carried out by NRA staff in accordance with the policies established by the officers, directors, and the various committees. He has his orders. The NRA is to further direct its attention to such questions as: "Where can I shoot?" "Where can the gun owner be trained?" "Where can the shooter compete with other shooters?" To answer the questions Rich suggests that each metropolitan area should have one or several shooting sports centers. He further suggests shooting clubs combine to finance the centers and share in their use.

He sees a national network of shooting centers, each having an attractive club house with a restaurant, locker room, and indoor ranges, and also having a shop featuring shooting equipment, jackets, and casual clothing.

This new national network of ranges should also have pistol ranges and rifle ranges with targets of 50, 100, and 300 meters. They will be fully automated with scoring achieved electronically. He (Continued on page 68)

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(Continued from page 55)

spotting shows, refitting the metal, then cutting again. Don't try to force the metal into place or you'll split something. Just relax, take your time and enjoy the process. Good work is its own reward.

Once the receiver and top tang are in position, they act as a jig for lining up the floorplate, sidelocks (if any), trigger plate, safety, etc. Don't forget that some of the moving parts must have room to move so allow additional inletting for their proper functioning. It can be downright embarrassing to get the whole works together then find out that the safety won't slide or the hammers can't fall.

With the receiver and bottom plate in position, it is a simple matter to mark the location of the thru-bolts and screws. Since some of these holes must be perfectly aligned it is a good idea to start off with an undersize drill. Thus any misalignment can be corrected before it's too late. When the hole goes in—and comes out—at the exact location you can enlarge it to correct size and you're then ready to fit the bolts and screws.

With the principle parts of the action securely attached to the stock you can move on to attaching the trigger guard and getting it inletted into the grip. At this point the inletting is all but over. However, don't get in a rush and bungie the job at the last moment.

You will have noticed that the exterior dimensions of the stock are somewhat oversized and extend about 1/8" or so above the surface of the metal. Naturally this must be worked down flush. Considerable care is required in order to get a perfect flush fit without marring the metal. If the metal is to be refinished anyway, it doesn't matter too much if you make a miss-lick with the file or sandpaper. However, if the metal is nicely blued, case hardened or engraved such as my Francotti, you can't afford any dings or scratches.

With care you can get to about 1/32" or less with the rasp. If you stop there the remaining "step" around the metal won't reflect too badly on your workmanship. In fact, we've all seen shotguns costing a grand or more with a very definite step all around the metal. However, if you're dead set on perfection sharpen up the chisel and peel off the last few thousandths.

Since the stock has already been turned to the finish shape all that remains for you to do in the way of shaping is to smooth out the machine marks with the rasp and sandpaper. Also, for the sake of keeping the new stock as nearly like the original as possible you'll probably want to at-



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tach the original buttplate and grip cap.

After all your careful fitting there's no point in having anything other than a perfect glass smooth finish, so a little extra effort with the sandpaper is time well spent. In order to avoid accidentally battering the sharp edges around the inletting, it is a good idea to keep the stock fitted to the metal during the sanding operation. Just go slow and easy when you get close to the metal unless you're planning on refinishing the metal anyway. For sanding close to delicate metal surfaces, cut the sandpaper into small pads. With care you can sand right up to the metal's edge.

For the rest of the surface use a sanding block and, working *with* the grain, give the stock a thorough going over with 180 grit paper. This will take out the rasp marks and level the surface. Switching to 220 grit paper work out the scratches made by the coarser paper. Finally, work the wood to a glass smooth finish with 280 grit paper, polish with extra fine steel wool and you're ready to apply the finish.

Unless you intend to duplicate the original finish with varnish, lacquer or oil, the modern rub-on oil base stock finishes are the only way to go. They are tough, long lasting, fast drying, easy to apply and good looking.

For my Francotti I rubbed on four coats of Tru-Oil with a light scrubbing with steel wool between coats.

Don't forget to apply two or three coats to the inletted surfaces. This not only helps seal the wood against moisture but keeps oil from seeping into the wood. Oil soaking causes the wood to swell, darken and weaken.

The final crowning touch is to duplicate the checkering pattern. Checkering simple patterns such as my Francotti aren't especially difficult and can be handled with a little practice. (See "Beginning Checkering," GUNS, May '71). Too, if the checkering on the forearm is getting battered you might sharpen it up with the checkering tool. In fact, it might be worthwhile to refinish the forearm completely.

The time expenditure for fitting a semi-finished buttstock varies greatly with the individual. However, not counting the time required for the finish to dry the whole job can usually be considered a weekend project. So considering the fact that the value of a gun with a busted stock is practically nil and that the value of a gun such as my Francotti, after restocking, can go close to half a grand, the weekend seems well spent. It pays very well indeed to watch out for those guns "you can't get stocks for."



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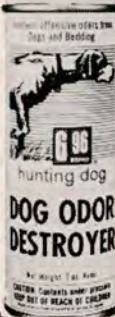


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POINT BLANK

(Continued from page 14)

peared. It was dubbed the Model 10 and had a solid receiver with the ejection through the bottom of the action. It lasted a long time, until 1929. Meanwhile in 1921 the Model 17 put in an appearance. It, too, was a bottom ejection type, an improvement on its predecessor. It lasted until 1933. In 1929 the Model 29 was handed to the shooting public. Then in 1931 came the Model 31. This was the best of the Remingtons. The M31 had a remarkably easy action and I had one in 12 gauge that was so friction-free you could point the barrel skyward, trip the breechblock release and the action would fall open of its own weight. The Model 31 was very popular both in the duck blind and on the uplands and a great many winning skeet champions swore by the gun.

The M31 lasted until the current pump appeared. This is the Model 870. It was announced in 1950 and has been around ever since. This is a whale of a good shotgun! It shoots well, points well, gives trouble-free service and does not cost very much. I have a Model 870 in 12 gauge, with

28-inch modified barrel. It is equipped with one of the original Hydro-Coil stocks and is a great favorite of mine for early season dove shooting.

Back in the early 30's when the original patents ran out on the Model 10 pump gun, Ithaca designed their Model 37 pump. It has a lot of the same features of the Model 10. It has a solid receiver and bottom ejection. I have owned a raft of 37s, in 12, 16 and 20 gauges. The gun has always been built as a superlight number and when you hunt afoot all day after blue quail—which require a lot of fast footwork—the feathery feel of the Ithaca is a real boon! It continues to this day, the same gun that was announced 40 years ago.

In the late 1950's, Mossberg, the outfit that gives the shooting man more firearm for his buck than any company that makes shooting irons, came out with a pump repeater which they called the Model 500. It is a really tough shotgun, made to last. With a nontakedown feature, a barrel-to-receiver joint which will never shoot loose, the 500 is good for a mil-

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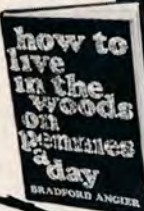
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lion rounds without pause, and I'd bet on it! Made for the hunter it is essentially aimed at that market which must watch its dollars. Reasonably priced and yet as sturdy as an Arctic icebreaker this is one of the best of the slide repeating smoothbores.

The Savage pump guns have been with us since the mid 20's, and always good guns. I am especially wedded to the Model 30L which has the ejection port on the left side, just for south-paws like me. The M30 is made in 12, 20 and 410 gauges and runs the gamut of barrel lengths and chokes. There is a trap model as well. The subsidiary outfit, Stevens, also has a pump gun, the Model 77 made in all the gauges. Stevens once peddled a pump repeater that was invented by the immortal Browning.

The Garcia Corporation imports a fine Beretta pump and Firearms International, the subsidiary company, handles the French-made "La Salle" repeater. It is in 12 gauge only. Harrington & Richardson offers the Model 440 in 12 and 20 gauges. And High Standard has a line of pump guns in all the gauges. These are in both field and target models. Noble Firearms, the company owned by Noble Davidson, has a pump in 12, 16 and 20 gauges.

Undoubtedly my two favorite pump guns are Model 12's in 12 gauge and another in 20 bore. The 12, I picked up directly after World War II as Army surplus. Since then I have had Simmons Gun Specialties attach a raised vent rib and put on a Glow-Worm sight. Poly Choke has added a ventilated variable choke, it now sports a handsome Eibar-turned stock of selected and exceedingly fancy walnut, complete with 26-line checkering and sans pistol grip. The receiver is beautifully engraved by the master checker of the Eibar Firearms School and has been left in the white to better show off the exquisite scroll work.

The 20 has been similarly treated except it has a Cutts Comp on it. The stock was made in Eibar by one of the best stockers among the Spanish craftsmen. The receiver is fully engraved and there is a Simmons rib. This shotgun was made up for Bill Askins when he was scarcely in his teens and it is now too short for both of us. Stocked to 12 inches length of pull, it will have to be lengthened with new wood before it can be used successfully by either of us.

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ble of Saskatchewan to the piney woods of South Georgia and you won't turn up a half-dozen of these old vintage models. Is the pump gun going the same way?

The "American Rifleman" magazine, house organ of the National Rifle Association, has for a long time run a biographical sketch on the country's leading gunsmiths. At the tag end of each of these summaries the 'smith is asked if he had it all to do over again would he follow the same trade. About half the boys say they are pretty well content. The remainder are dubious about the rewards. One of the most revealing statements is the comment; "If I had a boy I don't think I'd advise him to follow his old man's footsteps".

Despite this somewhat lukewarm acceptance of their fate the facts indicate there is a crying need for qualified gun builders. Like tax collectors, undertakers and obstetricians. One of the most commonly re-occurring questions directed this way is where to get training as a gun tinkerer. These queries are mostly from young fellows and a majority are from ex-servicemen. There are a number of gunsmithing schools, none probably better than the one at Trinidad, Colorado. It requires two years to shape up as a gunsmith in this college but after you finish the course you have a degree as associate in applied science and the graduate can just about write his own ticket.

The school is the Colorado State Junior College, Trinidad, and students undertake 15 hours of work weekly for the entire 6 quarters or 18 months. Some of the challenging yet required courses include metallurgy, stock-making, bluing, case-hardening, barrel-making, chambering and relining, handloading, tool-and-die-making, general and specialized repair and the conversion of military firearms to sporting types. Gunsmithing majors are required to take technical English, principles and design, industrial mathematics, as well as physical education.

It isn't all work and no play in this two years of study. Trinidad is in one of the best hunting spots in a hunter's state. Not only is the uplands shooting on ringnecks, grouse and quail excellent, but ducks in season are to be had. Back in the nearby mountains is some of the best deer and elk hunting in the state.

Among other requirements of the course is that at some time during his two years of study the apprentice 'smith must manufacture a full set of special tools to be used later by him in the pursuit of his chosen trade.



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A great many people who like guns and like to shoot think it would be fun to do the repair. But what many of them do not seem to realize is that there must be a considerable degree of inherent skill with hand tools and a knowledge of fairly complex machines before the gunsmith can be any manner of success. Some of us have a natural bent for things mechanical; others simply cannot run up a nut without barking a knuckle. Before the neophyte gets into the business of being a gun repairman, he'd better take stock of himself. Is he a handy man with tools or has his love of guns beclouded his judgment?

There are other gunsmithing schools besides the one at Trinidad. There is the Pennsylvania Gunsmith School, Pittsburg; the Oregon Technical Institute, Klamath Falls, Oregon; and the Lassen Junior College, Susanville, California. There is the Colorado School of Trades, Denver. And at 20 East First Ave., Scottsdale, Arizona, is the Modern Gun Repair School which offers a correspondence course. Overseas is the de 'Armurerie et de Petite, Liege, Belgium.

The better institutions will give the enrollee a thorough course of sprouts in such matters as lathe and drill operation, mechanical drawing, reading of blueprints, the nature of steel and other materials, the operation of tempering furnaces, forging, annealing and working of various metals. In some of the schools the student is apprenticed to various gunsmiths and his work is graded not only by the immediate gunsmith but also by the school. It is a rough grind and many an enthusiastic recruit has found that what he mistook for ability was after all just ambition goosing him.

Finally, after graduation, the novice gunmaker is not ready to go it on his own. He is an apprentice, a beginner with some excellent schooling behind him but still lacking in experience and background. He must look around and find a good solid-going gunsmith who will be willing to take him in for a few years and let him get that much needed on-the-job training. After that he will be ready to go it on his own.



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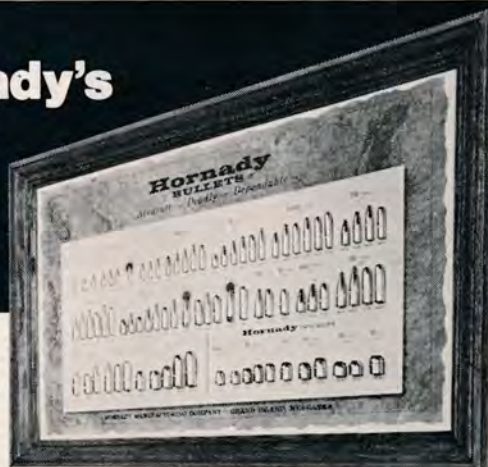
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HANDLOADING BENCH

(Continued from page 18)

no weight loss and no fragmentation. Right behind them came the 200 gr. Speer with good, even expansion, but slightly less of it.

Of the lot, all except the Norma are far better than anything ever before offered in .45 caliber for the big auto-loader. In fact, until now there never has been a worthwhile expanding bullet for the .45 ACP.

A word of caution. *NONE* of these bullets may be expected to produce 100% reliable feeding in the average military M1911/A1. Often they will, but just as often they won't until the

feed ramp has been carefully cleaned up and polished. If you plan on using any of these bullets for serious social intercourse, make absolutely certain first that your gun is tuned up to handle them with absolute reliability.

As for loading data, any full charge 230-gr. load is fine for the Norma, producing just under 850 fps from a standard 5" Government Model barrel. All of the 185-190 grain bullets can be driven at about 1050 fps by 7.5 grains of Unique with pressures in the 18,000-19,000 psi range. Rather warm, but not dangerous for occasional use.

For extensive firing I'd recommend dropping to 7.0 grains for right at 1000 fps and less pressure. With the 200 gr. Speer, 7.7 grains of Unique shows 1000 fps, but is rather warm. I'd prefer 7.2-7.3 grains for a steady diet.

These same bullets may all be used in the .45 Colt and .45 Auto Rim for revolvers. Unfortunately, their short bearing surface makes heavy crimping necessary to keep them in the cases under recoil—and they don't have crimping grooves or cannelures except for a very shallow one on the Speer 200 grain. If you want to go this route, roll in crimping grooves with the SAS Bullet Canneluring Tool and crimp cases heavily to eliminate that problem.

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WINCHESTER VISIT

(Continued from page 25)

the workers—from the packing room, and are compared with the audit sample. This comparison is long, and drawn out, with more than 30 detailed tests made. I will cover here only the high points; following each of the steps would necessitate using much more space than available to us for this article.

The first group of tests are visual. Does the finish of the wood and metal appear the same; is the stock of the test gun the same color as that of the audit sample, how does the wood to metal fit compare; in general, does it look like the audit sample?



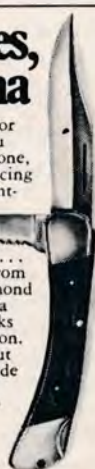
The second step in this audit comparison has to do with operating forces. The audit sample, because it is exactly what the QC engineers have selected as "acceptable," had been measured to find out how each of the parts worked; and the samples to be tested must operate the same way. The tag on an audit sample says that the trigger pull on this particular model must run four pounds minimum and six pounds maximum. The test gun is measured, and found to have a pull within these two, so a check is made on the audit report.

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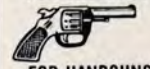
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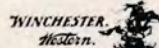
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Each model, of course has a separate audit report and each of these reports has listed operating forces, and acceptable standards which relate to its type of function. On the audit report for the Model 94, for instance, some of the operations tested are: open action; close action; cock hammer; depress spring cover; feed force on cartridges in magazine, etc. The Model 1400 shotgun will have: cocking force; depress carrier; operate carrier release; operate safety, etc. In addition, each of the models will be checked—against the standards of the audit sample—for headspace, firing pin indent, extraction and ejection, etc. The third step in this audit test is function and accuracy firing.

Before we get into that, however, at any point along this testing procedure, if any one of the five guns should show an abnormal condition, all five are double checked, and a report sent to the production line for a "look down the line to find out where the problem originates." More samples are pulled, and corrections made on finished guns and at the point of origin.

AUDIT REPORT



MONTHS TESTED	NO. GUNS WITH MALF.	NO. GUNS IN MALF. REPAIRS	TOTAL	NO. GUNS OUT OF SPEC. OR		NO. GUNS TESTED	DATE
				MALE	FEMALE		

DESCRIPTION	NO. OF GUNS		DATE
	MALE	FEMALE	

REMARKS	DATE	INITIALS

The audit for comparison of the operating forces is done on the range, of course, since it is necessary that some of the tests be made with ammunition in the magazine. On the range, the guns are then fired. The rifles are sighted in and tested for accuracy, and the shotguns for patterning and point of impact. The Model 70, for instance is fired in three shot groups at 50 yards—with iron sights to determine the center of impact, and with a scope to determine accuracy potential.

One item of interest on the testing of autoloading guns. The quality control engineers can tell much about how a gun functions and how it will hold up if they know the velocity of the bolt. A sluggish bolt may cause



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jamming; a bolt that travels too fast could eventually lead to parts breakage. An ingenious chronograph gives them readings just after the bolt starts back, and just before it reaches the end of its rearward movement. This chronographing was done with the gun in a shooting rest with the barrel parallel to the ground. A new chronograph now being used enables the Winchester engineers to check bolt velocities in the field, with the gun pointed up, down, or tilted on its axis.

Each month, a summarized audit report is made out, and the QC engineers study it carefully to detect any trends which might indicate a developing problem.

This short discussion of quality control has only skimmed the surface of the techniques used by Winchester to maintain the quality standards they have set for themselves. The audit tests are but one factor in the maintenance of this quality. As we mentioned in the beginning, I was interested in the people who make the Winchester guns as well as the techniques used, and what I found was a group of people—from those in the walnut paneled offices to the guy deburring barrel blanks—who do understand what they are doing, and do give a damn.

As fascinating as it was to watch the giant machines gorge themselves with raw material and then, after much noise and motion, belch out finished components, it was a hundred times more fascinating to watch a man practice his craft, and though dwarfed by the presence of the monster under his supervision, maintain his supremacy over the machine.

Did you ever see a man assemble a shotgun? I did, and it was nothing like I had imagined. On the bench in front of him were a dozen or more pieces. His eyes moved over them carefully, then his hands began to move. Five pieces became an assembly, which soon became part of the whole, and when he was finished, he cocked the piece, closed the bolt, loaded several dummy rounds into the magazine, operated the mechanism again; his hands feeling for that slight hesitation, an indication that something was not right. He then stood up from his stool, put the gun to his shoulder, and became, not an assembler in the Winchester plant, but the hunter who would some day own this shotgun, and he took aim at a flight of geese only he could see. Satisfied, he placed the gun in the rack and sat down, again becoming what he truly was; a craftsman who knew what he was doing, and gave a damn.

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OUR MAN IN WASHINGTON

(Continued from page 56)


also suggests there be running deer and running boar targets, ponds for youngsters to fish, and picnic grounds — and shotgun accommodations.

It is no pipe dream, there is a precedent for such centers already. The Blue Trail complex in Connecticut is one example. The State of West Virginia is planning to construct a hunter safety and range center with funds now being accumulated by the State and under the federal law directing handgun taxes into State hunter safety programs.

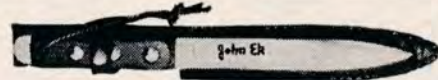
The NRA is now making a major effort to move into the field of conservation. General Rich has proposed the organization start with a pilot purchase of 10,000 acres of land, ideally bordering a National Forest. He sees such purchases providing wildlife

management opportunities, as well as controlled hunting for NRA members.

He is confident that only a small part of the cost of such projects will have to come from fees of NRA membership. "I am certain that funds are available from many private grant sources as well as from State and federal government agencies," he stated.

In short, the National Rifle Association believes its membership will continue to grow only through making the holding of a membership card more valuable. General Rich is a little tired of being labeled the "gun lobby." It has brought them many new members. He believes the challenge to his office is to now lead the shooting sportsman, the target shooter, the collector, the hunter, in keeping with the changing world. 

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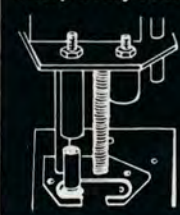
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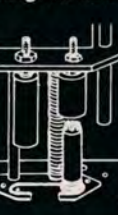
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HANDGUNNING

(Continued from page 8)

Donau, Koriphila, announced their intention to launch two DA automatics, a small one to compete with the little Walther, and a 9mm which is essentially a DA rendition of the FN-Browning Hi-Power.

With this clear and present danger, FN Belgium began taking long second looks at a design they'd let lie dormant for the past decade. By now everybody had a DA automatic—even Webley in Britain. Being English, it probably ejected to the left, but it was double action as all hell.

Where was Uncle Sam all this time? Just getting back from lunch! The service .45 was adopted when the Army was still packing rations on mule back, and has of late pushed the 1873 revolver out of top billing in the Western movies with considerable justification. During the early '50's, the Army decided Ol' Ugly might be due for retirement. The word went out, and Smith & Wesson put together a DA 9 for testing. It was a good gun and became the Model 39. High Standard did likewise. Theirs was a wretch and was never seen again.

When the sand settled the Army decided the .45 would do awhile longer, and they really didn't care. Thus we got the Smith 39—America's first DA autopistol since the 1907 Knoble, and the first to make it commercially. No gauntlets have been thrown in its face. It's all there on our side.

Colt's military division has, for the past year or so, been toying with a double action, double column, 16-shot 9mm in all stainless steel, but the odds look long against its being commercially marketed, or for that matter against its being manufactured at all. Meanwhile, two new American firms are exploring the possibility of introducing small DA automatics.

From the purchaser's standpoint, there's no dearth of medium frame, medium bores. The imports are with us in glad profusion, and there'll soon be more. The crunchies come at either end of the power/concealment scale. The GCA '68 shut off the supply of small ones, and the commercial vacuum has yet to be filled from this end. As for calibers above 9mm, none are made in double action. Anywhere. But that won't last long. Within a year and a half there'll be at least two double action .45's on the market. And you can bet your parchment copy of the Pledge of Allegiance they won't be American-made.

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MINI-SUB

(Continued from page 23)

what happens!

These all new weapons in no way resemble the host of pistols modified to incorporate a selective fire capability. Said pistols, capable of both semi and full automatic fire, have never found wide acceptance due to the heavy bullets used compared to the relative light weight of the weapons, unsatisfactory balance and extremely high rate of fire. Furthermore, most have difficulty obtaining a controlled, short burst of fire due to the low attachment point of the shoulder stock on the grip, which results in uncontrollable muzzle climb.

The Research and Development section of MAC is located in Powder Springs, Georgia on the palatial estate of Werbell, a flamboyant, ex-soldier-of-fortune and Pacific theatre OSS veteran who gives the whole operation an aura of mystery and intrigue seldom found with the average arms firm—though Werbell is quick to claim that his days of intriguing are a thing of the past. Werbell, in the course of his world-wide travels and adventures, has accumulated as exotic a collection of small arms as one will find anywhere in the United States. Many of these weapons have been used in research efforts of MAC.

Gordon Ingram, the soft spoken, affable designer of the Model 10 and 11 who works closely with Werbell, first developed an interest in firearms when he was 11. He has been in the small arms design business for better than two decades. He developed the prototype design for the Police Ordnance Model 6 while he was serving with the 26th Infantry Division in Europe during World War II when he was 19. In 1949, Federal Laboratories started production on the Model 6 which fired the .45 caliber round and incorporated a majority of the features of the Thompson submachine gun though it was much more economical to manufacture. In the early 50's he was employed as a consultant in establishing an arms factory in Peru and in 1953 he served as an advisor to the Indonesian government on small arms production. Between 1953 and 1955, he served in a similar capacity to the Thai government. He then returned to the United States where he worked for several aero space firms in Southern California.

When he first started developing the Model 10 four years ago, both

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Springfield and Frankfurt arsenal expressed interest but decided they were too involved with other projects. Finally a friend introduced Gordon to some of the officers of MAC and the Ingram LIW was on its way to the assembly line.

The Ingram Model 10 is the ultimate in modern compact submachine guns, and is designed specially for airborne and armored troops, government undercover agents and police, guerrillas and freedom fighters.

MAC has already signed contracts with several foreign governments for large quantities of the Ingram LIW which are now rolling off the assembly line in their new plant located in

Marietta, Georgia. Both the Model 10 and 11 have been combat tested in Southeast Asia and have come through with flying colors.

The Ingram LIW's ably provide a far superior replacement for the hand held sidearms in the service of armies throughout the world. With the large number of brush-fire wars continually breaking out throughout the world in both underdeveloped and isolated areas as well as in urban areas, the Ingram is destined to provide new punch and protection to the individual soldier who heretofore has had to rely on the limited fire capability and effectiveness of a hand held pistol. 

ML HUNTING BOOM

(Continued from page 36)

Wisconsin—Dale L. Erlandson, the Supervisor of Hunting Safety for the Bureau of Law Enforcement noted: "Muzzle loading firearms of certain calibers are legal firearms for hunting deer in Wisconsin." He then referenced Wisconsin's big game hunting regulations which, of particular interest to the muzzle loading hunter, specifies: "It is unlawful—To hunt any deer or bear with a .22 rimfire rifle, 5 mm rimfire rifle, .17 caliber center-fire rifle, any rifle using caseless cartridges or a .410 bore shotgun or musket charge other than single ball or slug." The muzzle loader is expected to obey all laws pertaining to

modern firearms.

Georgia—A musket of .40 caliber or larger is required. Jack Crawford, Game and Fish Commission assistant director, further admonished, "Better yet, make it .45 caliber or larger, so there's less chance of getting a cripple."

Oklahoma—Legalized muzzle loading hunting for deer season in 1963, according to Lee Good of the F. M. Davis Memorial Commission of that state. He indicated the preference was for percussion or flintlock rifles. He knows of no hunters who are using muskets.

Lee Good pointed out a peculiarity

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in legalizing the muzzle loader in Oklahoma that may not exist in many other states. He explained: "Our first problem was to prove to the Oklahoma Department of Wildlife Conservation that a muzzle loading rifle could be classified as a 'high power rifle'. Ultimately, the term 'high power' was defined as one discharging 1000 pounds of foot pressure." The State of Oklahoma issued a chart giving energy in foot pounds over a range of .40 to .50 caliber.

Good's interest in muzzle loader hunting became quite understandable as he continued his story: "My first deer hunting experience began the first morning that muzzle loading rifles became legal in Oklahoma. I was hunting near the town of Marble City, a rough, hilly, timbered area in eastern Oklahoma. I carried a heavy (14 pound) Plains rifle, .50 caliber, loaded with 200 grains of 2F black powder. About 7:30 that morning, a buck came around the mountain, the first I'd seen. He saw me when he was about 40 yards away. He turned and faced me. I shot him in the forehead, above the eyes, and the soft round lead ball made a large hole. The ball split the skull and one antler flew off. There were four holes in the back of his head, either from the ball or shattered bone. The buck was stopped in his tracks. One man commented, 'That was the 'deadest' deer I ever saw'. The ranger checking my deer told the man behind me in line that, "If you'd used a gun like that, you wouldn't have had to shoot him twice.' (He had killed his buck with a .30-06, and it had taken two shots.)"

As far as Good could tell, his was the first deer killed after muzzle loaders were legalized in Oklahoma.

Maxine Moss, editor of Muzzle Blasts, the Publication of the National Muzzle Loaders Rifle Association (NMLRA) recently published the findings of a personal study she made of primitive weapon hunting in 48 of the 50 states.

The details are interesting: The states fall into three categories; some permit muzzle loading hunting, others have a special muzzle loading season, the rest have neither. A few states she had queried had not been heard from by the time she went to press.

Eleven of the 48 states surveyed did not have a muzzle loading hunting season. Editor Moss felt this wasn't a bad percentage considering such things as area population and terrain of country. Of extreme interest, Maxine Moss noted: "Never during the years of editing our magazine, have we had reported a muzzle loading hunting accident. We have greatly increased in numbers. We are an ex-

tremely safety conscious participant on the range or in the field. Naturalists and conversationists by nature, no one so thoroughly enjoys the sport of hunting as we do."

The breakdown by individual state on muzzle loading hunting potential ran as follows: The deer season is the same as modern arms in Arizona, California, Delaware, Illinois, Indiana, Iowa, Kentucky, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, New Mexico, North Carolina, North Dakota, Pennsylvania, South Dakota, Utah, Vermont, West Virginia, Wisconsin and Wyoming.

Alabama, Colorado, Florida, Georgia, New Hampshire, Oklahoma, Oregon, South Carolina and Washington have assigned muzzle loading seasons. Texas is governed by county regulations and the rest of the 48 states queried have neither or did not reply.

The picture is changing constantly, however. An example is Florida which had its first three-day season for the muzzle loaders in 1970. In the original listing of Maxine Moss' it was marked as having "none."

The Alabama Department of Conservation sponsored the primitive weapons hunt in the Hollins Management Area for the second year.

Ohio muzzle loaders enjoyed a fruitful deer season the first week of November which was held in the Wolf Creek Primitive Area and the Salt for Primitive Area, of southern Ohio. The first meet held in 1968 was a "feeling out" meet. Seventeen deer were taken in 1969. The venison take-home rate jumped to 33 in '70. Primitive weapons are also legal in the regular shotgun season, so the unlucky muzzle loader gets a second chance if he wants it.

Dale Mueller of Wisconsin, that home of the deer stalker, in an unusual twist, considers it the best woodcock country in the U.S. for muzzle loaders. Even surpassing the fine coveys found in the New England states. Firing an English double, Mueller had an excellent bird season.

The Rocky Mountains of Montana are worth a close look by the muzzle loading hunter, also. According to Tag Rittel the 1969 Muzzle Loading Rendezvous at the Black Tail Ranch attracted muzzle loaders from places as far apart as California, New Mexico and Minnesota. A giant buck that weighed in at about 350 pounds field dressed was brought down by Jim Label from Grand Hills, California with a .54 caliber Hawken and round ball.

How about Kentucky? There's the Daniel Boone National Forest in the central sector. Its turkey season probably has no counterpart in the

country, for Kentucky harbors the biggest of all game birds, the wild turkey. It's been hunted avidly throughout the state since the first season held in 1963. Ralph W. Marcum told of bagging a beauty weighing over 17 pounds according to his grandmother's old butter scales with his .40 caliber muzzle loading flint-lock.

Marcum gave a few particulars of one hunt: "Instead of wearing the familiar camouflage clothing necessary in turkey hunting, I wore a set of buckskins dyed dark green. I prefer this type of wearing apparel in turkey hunting because of the texture of the buckskin which will not rustle or make a noise when moving near brush. And, too, the buckskin really felt good in the early morning chill. Also the dark green blended perfectly with the surrounding foliage of spring."

A hunting muzzle loader for the last 8 or 10 years, Marcum brought down his bird at about 50 feet. He was afraid if the turkey got any closer, he might become a bad risk and be lost altogether. One interesting sidelight Marcum mentioned was the immediate jumping to his feet after firing his shot. He noted: "At the crack of the rifle, which belched forth a sizeable amount of smoke, I jumped to my feet. This action is necessary with a muzzle loader if you're interested in seeing where you hit."

Indiana is of special importance to the country's muzzle loaders for their home base is located at Friendship, national headquarters for the NMLRA. Phil Hawkins, a long time member, lives near Franklin at the center of the state. Hawkins had this to say about primitive weapons hunting in Indiana: "I became an archery purist for about 10 years, from the age of 27 to 37, then I began to get the itch for muzzle loaders. I'm now hunting with muzzle loaders in those areas or times when bow hunting was almost impossible. Ducks, quail, pheasant and deer in gun season when everyone else uses shotgun and slugs. My rifle of .50 caliber took a black bear in Ontario (Canada) and an eight-point whitetail in Indiana last year." Hawkins considered downing the bear so easy, "I regretted shooting it, even with the thought that I had only one shot with the rifle and that it might possibly not go off."

Hawkins built his rifle himself and plans to work on another one soon. He considered this, "a great plus for the muzzle loading guns which is hard to match with archery gear. You can construct all your own gear in much the same manner as the early settlers

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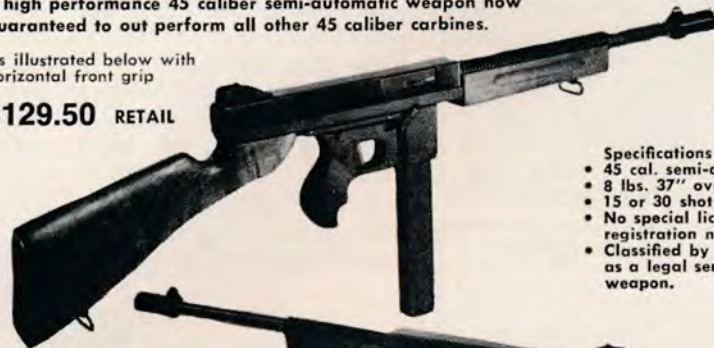
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who were here some 200 to 300 years ago." (Unlike archery which dates back ages.) But he feels the early settlers of relatively recent origin and their rifle development techniques are fairly new, "and not so long ago that original rifles and shotguns can't be handled and shot today." He also noted, "There is much more historical value placed on the shooting of muzzle loading weapons than the shooting of a bow." To Hawkins, a bear, deer or grouse is no more a match to the enthusiastic muzzle loader than it is to a scope sighted .270 hunter. "Both know what to expect of their firearms and hunt accordingly. The muzzle loader will be a little longer filling his tag but he'll be a whole lot prouder when he does." His muzzle loading kills include a black bear, one buck deer, and a variety of squirrels and ducks. This year he is using a muzzle loading double shotgun, original, and really loves it for flying game.

He firmly believes that if only the primitive weapons were used, the land would soon be swarming with game as it once was; that perhaps we've gone just a little too far in the development of the modern high powered rifle; that, "The muzzle loader is usually single shot and has to be built up to fire by the hunter before each shot whether it's a rifle or a shotgun. Second, third and fourth shots are almost forgotten. Be a good hunter and get one good shot, then make it count. This is muzzle loading."

Phil Hawkins has nothing "against gun hunting because I don't. But I soon found out that I could kill more game than we could ever hope to eat with my Model 12 Winchester and .22 squirrel rifle." This despite the fact he still hunts only antlered deer and the Indiana herd is small.

It appears that just about all the states have something to offer the muzzle loading hunter.

Who are the people that hunt with muzzle loaders? What do they do? Where are they from? How good are they at the sport?

The muzzle loader can vary from such dignitaries as former Governor Warren P. Knowles of Wisconsin, old time hunter Judge H. E. Resley of Stockton, Texas, to expert Bill Fuller, owner of the Fuller Gun Shop, Cooper Landing, Alaska.

Former Governor Knowles (now of Milwaukee, Wisconsin), remembers nostalgically, but somewhat ruefully: "Our hunting trip was the One Shot Antelope Hunt in Lander, Wyoming. We thoroughly enjoyed the hunt and, while I was not successful at being able to get close enough for a standing shot, which I am sure I could have

made, I did get a decent shot at three running antelope at about seventy-five yards, but I guess I didn't give them enough lead."

Alaska being the big game country it is and Bill Fuller, being the great sportsman he is, fared better than Warren Knowles. "I downed a black bear with an original S. Hawken muzzle loader, .52 caliber ball, 200 grains of Du Pont powder. One shot at 50 yards through the chest making a 50 cent sized hole. The bear travelled about 30 yards.

"Have killed a moose at 100 yards with a 16 pound Sharps, .45-100-550. Pope's Patch. This bullet travelled, quartering just under the back bone, clear through the moose. This dropped him in his tracks."

Judge Resley, of the big grass country of Texas, expressed some firm personal opinions: "At close or medium ranges, a large caliber, .53 and .60 muzzle loading rifle is as effective on big game as most of our moderns.

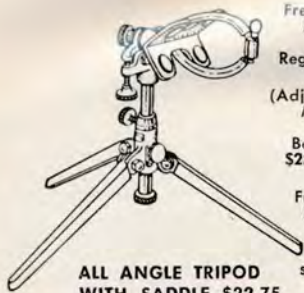
"Two years ago," he recalled, "while on an elk hunt in Colorado, David Johnson, a friend of mine in Austin, using one of my .55's, dropped a 10 point bull in his tracks at 220 steps. Was using about 150 grains charge."

"Last year," according to Resley, "he killed a bull at about 60 yards with the same rifle. The bull ran about 20 steps and fell dead. The ball passed through and was flattened to the size of a quarter.

"The late Jim Cansesse," Resley continued to reminisce, "told me he had killed sixty fine deer with an original flintlock of .45 caliber. He also killed a mountain sheep at around 60 or 70 yards, several antelope, one at a measured 240 long steps. He told me he ran the ramrod 27 inches in the bullet channel. He also killed a number of coyotes and wild turkey with this rifle. As I recall, the charge was 70 grains FFFg."

Judge Resley does most of his hunting on the range. "Have killed two deer with a muzzle loader, one turkey, two Javelena and a number of jack rabbits." He confessed, "In my old age the killer instinct is about gone. "I never shoot a Javelena any more and am not interested in small bucks. Would like to get one big bull buck elk though. So far I haven't been able to get a shot."

May Judge Resley realize his last great ambition with his muzzle loader. However, there's no reason other than personal preference and possibly geographical location, that a young modern arms enthusiast can't bring down a deer at 200 long steps with a blast from a musket.



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ASKINS AT THE NRA

(Continued from page 32)

they were all grouped around the Remington booth, looking at the new Model 700 chambered for the standardized .17 caliber. Of course, others were there, too, looking at the left-handed Model 870 shotgun and the new handgun loadings in the Remington ammunition line.

There were a whole bundle of new things from Savage, including the new 99-A lever gun chambered for the old favorite .250/3000; the little collector's model of the Steven Favorite .22 rifle; and the Model 110 now chambered for the hot .25-06. While there was nothing brand new at the Sturn Ruger booth, there were the usual large crowds, many of whom had not yet seen the Ruger Security-six double action revolver. The newest thing at the Tasco booth was not a scope, but a handy little scope sighter that is easy to use, and quite effective. At this year's show, Thompson/Center had a chance to show off their new muzzle loading rifle, the "Hawken," and it was well received by all who examined it. Weatherby has a most impressive exhibit every year, and this time their booth was as busy as ever with visitors examining the new line of Sauer shotguns in over-under and side-by-side types.

Winchester displayed their two new NRA Commemorative rifles and the new Model 70 "Army Rifle," a target model especially designed for international competition. The hit of the Winchester display, however, was the new line of .22 bolt action rifles. See you in Portland in 1972!

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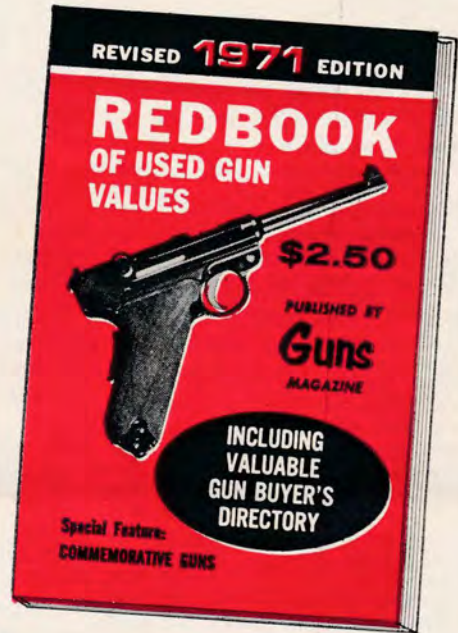
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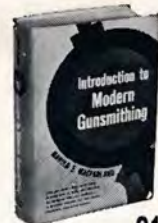
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