

NOVEMBER 1957 50c

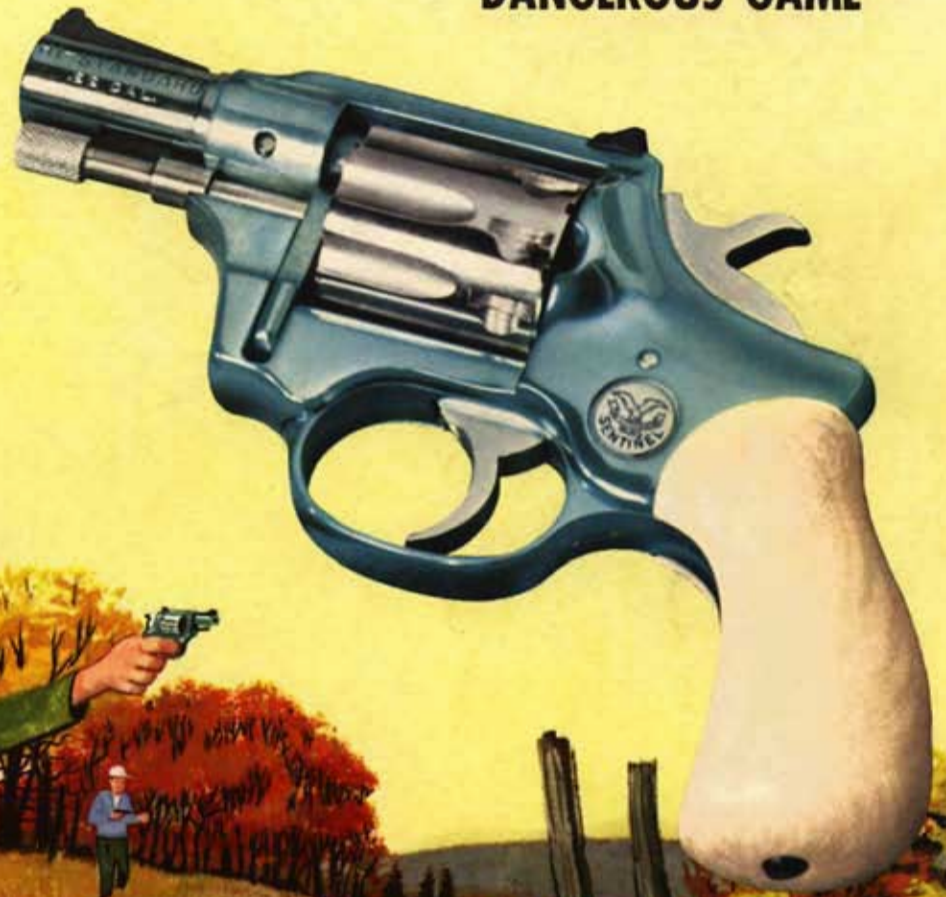


Guns

HUNTING • SHOOTING • ADVENTURE

HOW TO CHOOSE THE
BEST DEER RIFLE

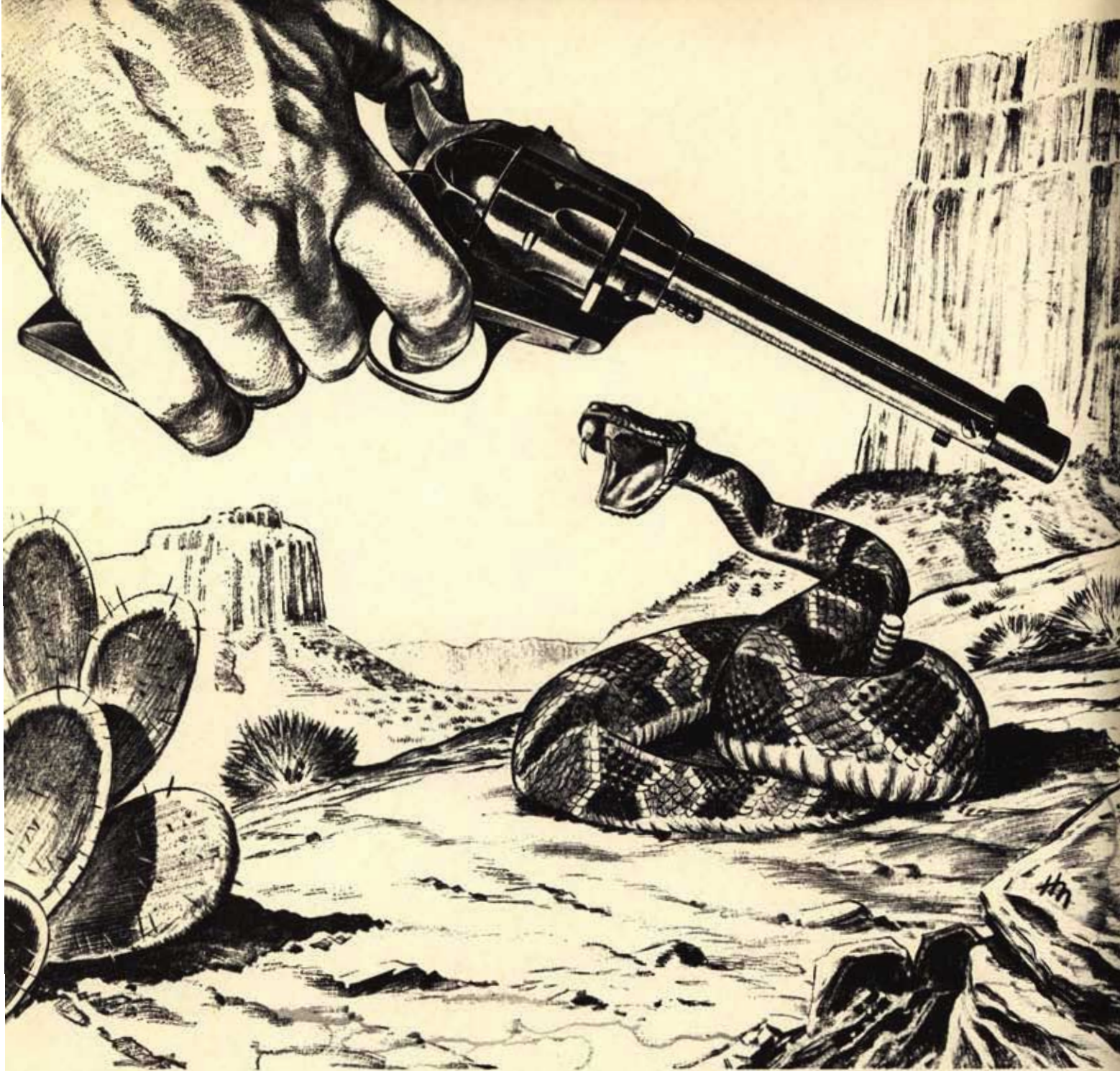
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AMONG the rifles preserved here at the Wachovia Historical Society Museum at Old Salem, near Winston-Salem, N. C., are a dozen early American pieces which show the work or influence of Christoph Vogler. These, I think, are my "favorites," rather than one particular firearm. You may say with some reason that this is a choice naturally to be expected of a man connected with museums as I am, but I think the position is defensible. Vogler was an ingenious craftsman who began his apprenticeship in 1775. He made many improvements in manufacture, even in those handicraft days, such as making an attachment to the village grinding mill to bore his rifles. Christoph Vogler was the patriarch of gunsmiths, and his touch can be seen in the work of many of his pupils, E. S. Butner, Hermann Buttner, William Dittmar, George Foltz, and others who were his apprentices or who worked with him. Vogler built guns in the days when the Long Rifle was supreme among American sporting weapons, and his arms are highly prized today.



By **DR. FRANK ALBRIGHT**
Director of Museums, Old Salem

MY FAVORITE GUN

By **RALPH A. FISHER, Sr.**

ARIZONA'S outdoor writer and licensed guide, Ralph A. Fisher, Sr., of Payson, picks the famous Savage, Model 99 lever action rifle in the .300 caliber as his favorite gun. It has, he says, plenty power to stop bear or elk as hunted in our western states; enough stopping power with lighter loads to drop White-tails or blacktailed deer, as well as the desert Mule deer; and it has enough reach to down the antelope or javelina.

Arizona, says the guide, has more big game species to offer the hunter than any other state. Fisher has just had, "The Guide To Javelina," published by The Naylor Company of San Antonio, Texas.

The scope shown is a Bushnell 4X Scope-Chief on Stith Mounts. The rifle has the modern 'thumbsafe' safety.



TRIGGER TALK

R EPORT ON LEGISLATION:—In hearings which dragged on for two days, the Firearms Section of the Treasury's Alcohol & Tobacco Tax Unit met a snowballing storm of protest against their revised regulations governing commerce in pistols and pistol ammo. From all over the nation firearms enthusiasts collected to express their disapproval. The Treasury-revised regulations, a thinly disguised stab at national registration, developed angry condemnation from leaders of over 350 clubs, groups, associations, and journals in the shooting field, representing conservatively over 10,000,000 shooters. Only three men could be found to speak in approval of the regulations! As was pointed out at the hearings, the importance of such rules is not what good administrators will do with them, but what bad men can do with them.

The crushing blow to the Treasury's stand came on Sunday, August 25, when the National Board for the Promotion of Rifle Practice convened at Camp Perry to discuss these rules. A resolution condemning them was passed, and Army Secretary Milton communicated to Treasury Secretary Anderson the Defense Department's strong opposition to the regulations and their effect. (Civilian fun saves the Army millions of dollars in training.) When GUNS learned of this conference between the two cabinet members, we spoke to the assistant Director of Civilian Marksmanship, Col. Ellis Lea, and were asked to introduce this information at the Treasury hearings. In signing off our phone talk, we said "Well, it looks as if this thing is licked. Next step: repeal the National Firearms Act." And, in agreement, Col. Lea said, "Check!" This view of the Army, on the importance of individual firepower and civilian marksmanship training, is shared by top-level policy-making personnel. The appreciation of automatic weapons' importance is directly recognized by these men. A new national shooting association, the American Automatic Weapons Association, 317 Houseman Bldg., Grand Rapids, Michigan, has been formed to study the problems of sport-shooting and recreational training programs involving lawful use of automatic weapons. Unofficially, during the course of the hearings, this organization obtained the blessing of many top men in the Defense Department and the Marine Corps. With progress in modern legislation this "blessing" may become official.

Meanwhile, firearms enthusiasts must become far more active politically than they have ever been since 1776. The strength of the gun enthusiast is through his shooting club and association memberships. These groups are awake to the immediate need for political action. To help shooters, we are making available reprints of "Why Not Have A PRO-Gun Law?" from the September, 1957, GUNS, ten for a dollar, postpaid. We have mailed out hundreds to legislators, law enforcement, youth group executives all over the country. You should do the same, contacting your elected representatives. This is not an election year—there is plenty of time to learn now how your representatives think, before you go to the polls.



THE COVER

The Hi-Standard Sentinel brings more than merely added color to the Autumn woods. It can be, also, a new hunting weapon. And Ed McGivern, maestro of the sixgun, says, "They've made a better revolver than ever they know."

Guns

FINEST IN THE FIREARMS FIELD

NOVEMBER, 1957

VOL. III, NO. 11-35

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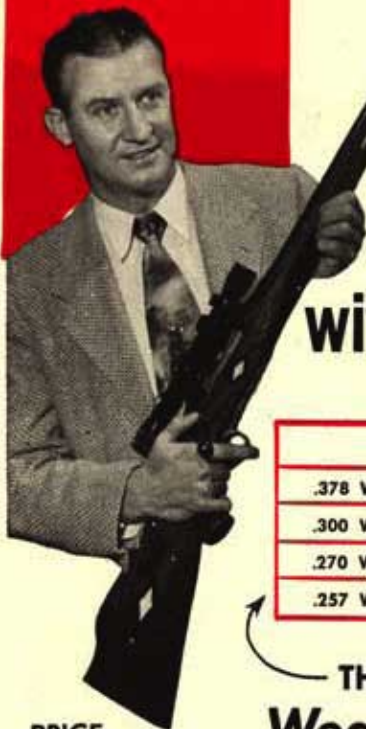
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REPRESENTATIVES: NEW YORK, Eugene L. Pollock, 40 East 40th St., New York 16, N. Y. MURRAY Hill 5-6760. MIDWEST, Jack Provol, 360 N. Michigan, Chicago, Ill., Franklin 2-2488. CALIFORNIA, The Ren Averill Company, Ren Averill, 232 N. Lake St., Pasadena, Calif., RYan 1-9291; and Gordon Cole, 74 Bret Harle Terrace, San Francisco 11, Calif., PROspect 6-3902.

GUNS magazine is published monthly at 8150 N. Central Park Avenue, Skokie, Illinois. Second class mail privileges authorized at Skokie, Illinois. SUBSCRIPTION: One year, \$5.00. Single copy 50c. CHANGE OF ADDRESS: Four weeks' notice required in all changes. Send old address as well as new. CONTRIBUTORS: Submitting manuscripts, photographs or drawings do so at their own risk. Material cannot be returned unless accompanied by sufficient postage. PAYMENT will be made at rates current at time of acceptance and will cover reproduction in any or all GUNS magazine editions. ADVERTISING RATES furnished on request.



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**GUNS in
the NEWS**

[Special]—

◆ In the last two years, hunters have killed 180 deer on Little Rocky Island in Lake Superior. And since the island covers only two square miles, that's an average kill of 45 deer per square mile per year, probably some kind of record. "And," reports the Wisconsin Conservation Bulletin, "there are still deer there."

★ ★ ★

◆ Yugoslavia's Marshal Tito has a weakness for practical jokes. Not so long ago, on a hunting trip, he tied a pair of deer's antlers on a cow and turned it loose in the brush. Then he excitedly pointed out the animal to a companion and courteously allowed him to take the first shot. For days after the incident, Tito would phone his hunting friend and when the latter answered, Tito would just say, "Mooooo."

★ ★ ★

◆ Another story making the rounds: Worn and haggard, a hunter staggered into a Far North trading post. A crowd gathered around him and he was asked what happened. "My sled dogs kept dying along the trail, we'd been without food for days and finally there was only me and the dog leader left," the trapper gasped. "Well, that big brute kept eyeing me—and I kept eyeing him and I guess both our mouths were watering."

"And?" someone prompted.

"Well," said the trapper grimly, "he didn't have no gun."

★ ★ ★

◆ Jack Doerr, a Hennessey, Okla., farmer, woke up in the middle of the night and through the moonlight thought he saw a badger looking him in the eye. He grabbed his shotgun and fired through the window, then went outside to see his bag. He found holes in his wife's washtub.

★ ★ ★

◆ The story is making the rounds about a hunting couple who returned unhappy from Scotland. It was the grouse season—and she did.

★ ★ ★

◆ Seized with a flashlight, gloves, and a burlap sack after he'd taken a potshot at a Cincinnati officer during the night, a man staunchly denied that he was a burglar, declaring that he was outfitted as he was merely for "hunting crickets."

★ ★ ★

◆ Luck finally changed for two Laconia, N. H., hunters. Dr. Leroy B. Pinkham killed his first deer after 50 years of hunting and Arthur W. Sewell also bagged a deer to end 41 futile years.

For GUNS' report on "Guns In The (Legislative) News," read "Trigger Talk," page 5.

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CROSSFIRE

LETTERS TO THE EDITOR

That Pro Gun Law

I have just written Senator Schoepel and Carlson of Kansas a protest against the proposed regulations relative to guns. In my opinion the September article in GUNS, "Why Not a Pro-Gun Law?" by William B. Edwards is an outstanding one.

Your magazine is outstanding and good, well illustrated and readable material on guns. I like GUNS because you vary your material each issue. We learn so much from each issue.

Leonard L. Stairrett
Jetmore, Kansas

In your last issue, I read the first common sense article on firearms control. This article by William B. Edwards hits about every bad feature of the bad and uncontrolled law and also makes some good suggestions.

For years I have wondered why some of our law makers wouldn't listen to people experienced in the problem of criminal use of firearms. I have never in sixteen years in law enforcement witnessed or heard of any criminal obeying any of firearms restrictions and I have never heard of any criminal given additional penalty for illegal use of firearms.

So why don't our law makers wake up, as Mr. Edwards says, and make laws to cover criminal use of firearms rather than handicap the tax payer and citizen? The honest citizen and tax payer would in most cases obey any type of law but if our criminals believed in laws we wouldn't have any criminals.

Dunn Brumbore
Lehighton, Pa.

I picked up your August issue and read your article in Shooting News on firearms legislation. I have many times seen articles asking the shooters to write to their government regarding anti-gun laws, but yours was the first to put in pro-gun laws. I have been advocating this for 20 years as many years as I have been a shooter and collector.

Edwin E. Smith
River Edge, N. J.

The best pro-gun article I've read was "Why Not a Pro-Gun Law" by Wm. B. Edwards, in the September issue. It needs to be reprinted in every family and sports magazine and newspaper in the country.

Anyone can understand the clear and simple wording of the second amendment that says "the right of the citizen to keep and bear arms shall not be infringed." Could some of those who would wreck that part of our constitution be of the same breed as those who most use the protection of the fifth amendment?

Kent Bellah
Saint Jo, Texas

For late news on gun legislation, see "Trigger Talk," page 5.—Editor.

Skeet versus Trap

GUNS arrived in the noon mail! My 12-year-old read it from cover to cover during the day—I just finished doing the same including the ads. I have been a subscriber since the magazine invaded the West.

Hope you cover the Grand American in detail in a future issue. Hope to go there myself one of these days. An interesting article that I am sure would have lots of reader interest would be the past laws of skeet and trap shooting as well as experts' opinion as to whether one can shoot skeet and trap equally well without either game suffering.

M. M. Troyton
Petaluma, Calif.

Arms for Free People

Congratulations on just about the finest and the best magazine for gun enthusiasts.

In your July issue you published an article by Miss Douglas on the ownership and meaning of guns, for women. It is excellent. Of all the material in this particular issue, one sentence stayed very strongly imprinted in my mind "Only an Armød People Can Be a Free People." This embodies the past, the present and the future of our nation and the rest of the free world. I feel that Miss Douglas has written one of the best articles you ever published and again you should be recommended as well as feel very proud for having published it.

John J. Careno
Inglewood, California

Fast Draw

Four of us—myself, my son Jimmy, Pedro Gonzales Gonzales, and Dave Infausto of Santa Monica, California, put on an act called "The Fast Gun Draw." It is the only act of its kind in the world. We have done 17 shows, shooting with blanks. I am trying to get my act on the Perry Como Show. We have been on TV KTLA Channel 5 twice, and in four big parades in San Francisco. I own and run a shoe repair business also.

I was clocked the world's fastest gun drawer, *one-tenth of a second*. It's been in all the big newspapers in LA. I've been doing fast gun drawing since the age of ten. My shows have been going on for six months, and I am booked next month for *eight* shows. I hope to be in a movie in January, 1958.

Nick Nicastro
Mar Vista, California

Police Issue

I certainly enjoyed this "Police Issue" and am looking forward to further such issues. I am a deputy sheriff reserve.

Murry Brooks
Eugene, Oregon

SHOOTING NEWS

National Pistol Championships, Camp Perry, Ohio. NOTES FROM THE FIRING LINE. Drama stalked what must now be the world's longest firing line as America's top handgunners sweated through the week of Aug. 12-17 in pursuit of national, trophy, and class championships. There were a good dozen guns on that line easily good enough to win the national title—including, for the first time a woman: that amazing little lady from the West Coast, Gertrude Backstrom (who, since GUNS' Sept. article about her, has twice broken the charmed circle of 2600-scorers). Toward the end, however, the race narrowed to a shoot-out between five-times-champion and title-holder M/Sgt. Joe Benner, and last year's Trophy Match winner, Marine Corps Lt. Bill McMillan. Benner had won the .22 Aggregate with a smashing 886-50X over McMillan's 875-30X. McMillan came back to win the .38 Aggregate with 871-34X over Benner's 868-36X. Benner won the .45 Slow Fire by four points, 188-4 to 184-7. McMillan won the .45 Timed Fire 197-13 to 195-11. They faced off in the final match, the .45 National Match Course, with Benner leading by 9 points. And McMillan won that crucial shoot-out—by 11 points. Grand Aggregate: Benner 2610-116X; McMillan, 2612-106X, and new Champion! . . . Benner turned the tables the following day, however, in the tough hard-ball .45 caliber individual Trophy Match, setting a new world's record of 293 to complete the swap of championships. . . And no sooner had the guns stopped cracking than the hot-stove league went into session, arguing which of the two titles was greatest, which toughest to win, the 270-shot marathon for the national title, or the shorter but punishing "obstacle course" with the service pistol and regulation hard-ball ammo. It's a question. Remembering other matches and other years, I'd say it all depends on which match you're facing. The match just coming up is always the toughest . . . and the match you've just won is always the biggest. Congratulations to two great champions. . . Congratulations, too, to all the other great champions and near-champions and never-hoped-to-be champions who were out there pitching lead. Close behind McMillan's 2612 and Benner's 2610 in the national title match was third place winner Lt. David C. Miller with 2603-81. Only one point down, to win the Master's gold was SFC Wm. B. Blankenship, Jr., with 2602-83; and second to him in the Master's listing was SFC Arthur G. Ogden with 2600-92. National Police Champion was many times National Champ Harry Reeves with 2599-99. National Women's Champion, with 2592-82 was (as if you didn't know) Gertrude Backstrom; and that score, please note, makes her National Civilian Champion also. . . National Guard Champion is Maj. Charles Young, with 2513. National Reserve Champion, Sgt. Robert K. Fisher with 2565-76. National Collegiate Champion with 2487-49 is Edward W. Mason. National Air Force Champion is S/Sgt. John L. Keyser with 2553-84; and National Senior Champion, with 2448-47, is C. J. Code. . . Seemed strange to see Marv Driver back of the firing line, not on it. Marv wanted to shoot for that "veteran's" title but put duty before pleasure to wear the Referee brassard. . . But it seemed like old times to hear the alibies (even some new ones) and the lamentations at the wailing wall. Ex-national champ Bill Toney, reporting on the firing line with somebody else's squadding ticket. Joe Benner who, they say, scoped his first shot in that crucial final one, stopped scoping, and found the other nine well grouped but high. A gunner (name unknown) who taped his hand with a bandaid instead of the accustomed adhesive, claimed that the extra thickness "threw all his shots high." . . . And it was good, mighty good, to shake familiar hands, see familiar faces: Col. Walter Walsh, USMC, formerly FBI, formerly National Champion; Smitty Brown, entrepreneur of the great Tampa Midwinter tournaments; General Hatcher of the NRA technical lab, and all the others from NRA headquarters—the list could be endless. . . But here's one old timer who is content to be—an old timer. When you have to top 2600 to win one of the big ones, the pace is just too fast. It's like having to run the Four Minute Mile every time you enter a footrace.

The Grand American, Vandalia, Ohio. NOTES FROM THE FIRING LINE. The Grand American Handicap on Friday, Aug. 23, lived up to its reputation as the biggest, noisiest, most colorful of shooting events. Certainly it is one of the least predictable. The handicap system curbs the big-name shooters and it is traditional that the Handicap winner will be a relatively unknown gunner. The 1957 event was no exception. Four men came out of the long day's shoot with tied scores of 98 out of 100 targets. These were C. R. (Senator) Crawford, 54-year-old electro-plating company president from Maywood, Ill., Cecil Mitch of Lowell, Ind., Harvey Blair of Wichita, Kans., and Don Renbarger of Topeka, Kans. Crawford shot from the 22 yard line, as did Blair. Renbarger and Mitch were handicapped at 20 and 19 yards respectively. In

the four-man shoot-off late that afternoon, big-game hunting C. R. Crawford powdered 25 straight to become the 58th Grand American Handicap Champion. Mitch scored 24 x 25 in the shoot-off to be runner-up; Blair was third with 23, and Renbarger fourth with 20. Ten shooters were tied behind the leaders with 97's—among them G. W. Triplitt Sr. of Coshocton, Ohio, who broke 75 straight and then lost three of his last 25 targets. . . The Women's Championship was won by Mrs. Frances King of Atlanta, Ga., with a score of 94 x 100. She was tied with Mrs. Daretta Walker of Orleans, Ind., but broke 23 to Mrs. Walker's 21 in the shoot-off. . . Two 13-year-olds knocked off the Junior and Sub-Junior titles in an unusual shoot-off. Thomas Turpen of Evansville, Ind., topped the 18-and-under group with a 94, and Michael Baker of Brooksville, Ind., and John Robert Righthouse of Marysville, Ind., tied at the top of the 15-and-under list. The two 13-ers then claimed the right to shoot for the older class title. Robert W. Smith of Taneytown, Md., granted this right and Baker, weighing in at 110 pounds, broke 25 straight in the shoot-off to win the Junior title, and Righthouse, with 23, became Sub-Junior Champion. . . On Thursday, Aug. 22, the Preliminary Handicap shoot was a three-way tie, also at 98 x 100, between Arlen J. Kimmel, 39, a steel mill worker from Valley View, Pa., W. E. Weldin of Osage, Iowa, and Ralph Dichtl of Naperville, Ill. In the shoot-off, Kimmel broke 23 to his opponents' 22 to win \$7,000.00 and the championship. It was Kimmel's first major trapshooting triumph. Helen Monk Del Monico, beautician from Miami, Fla., broke 94 for the Women's Championship, and curly headed Joe H. Newmaster, 15, of Lebanon, Pa., broke 95 from 18 yards to become the Junior titlist. R. J. Tobin of St. Lambert, Que., won the professional title with 95 from the 20 yard line. . . Earlier in the week, the great North American Clay Target Championship also required a shoot-off. Five men broke 200 x 200. They were Herb Bush, 47-year-old diesel mechanic, Joe Hiestand of Hillsboro, Ohio, Al Billings of Omaha, Neb., Frank S. Gardner of Springfield, Ill., and Walter Ostrom of Orangeburg, N. Y. Veteran Joe Hiestand and Walter Ostrom missed one each of the first 25 in the shoot-off. Billings and Gardner dropped out in the second round, leaving Herb Bush the winner of trapshooting's most coveted 16-yard title. . . Helen Thomas, 17, of Los Angeles, Calif., winner of the Women's Clay Target title two years ago at the age of 15, repeated this year to win the Women's 16 yard Championship with 197 x 200, same score as that of her previous win. . . Ron Rosher, 16, of Saskatoon, Saskatchewan, scored 197 to win the Junior title; and Wally Stone, 14, of Salem, Ore., broke 196 to win the Sub-Junior crown. . . Cliff Doughman of East Alton, Ill., won the pro championship for the 7th time; and Frank E. Smith of Albuquerque, N. M., bested Nick Egan of New York in the shoot-off for the Junior Champion of Champions title.

Yes, I know; there were other matches, scores of other names deserving of mention. U. of Wisconsin prof and new ATA president Vic Reindeers who broke 961 x 1000 for the over-all title, just for instance. But we held the presses to get even this one page into this issue, and paper won't stretch (much). More trapshooting stories coming.

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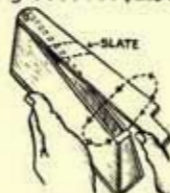


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GUNS ON THE EARLY FRONTIERS

By Carl P. Russell
(University of California Press, Berkeley,
1957. \$8.50)

Subtitled "A History of Firearms From Colonial Times Through The Years Of The Western Fur Trade," this book is a valuable contribution not only to the history of firearms but to the history of westward movement in America. And because the guns of the explorers, the Mountain Men, the soldiers, and the Indians of the West were outgrowths of the guns used and made in the East, and because these early colonial guns were the descendants of European arms, the book actually covers a much broader period than its title indicates. The material presented here is the product of many years of well-directed research which is thoroughly documented by means of selected "Notes." A profusion of careful line drawings, and the author's unusual success in reporting the maker and/or source of each weapon—plus a "Finding List" stating where each illustrated weapon can be seen—will make this book invaluable to the gun collector as well as to the student of arms development. The book is indexed, has a copious bibliography, and is designed and produced with the care and in the quality typical of the best University Press publishing. In addition to all these technical qualities, Russell has brought to his narrative a writing skill and an understanding of reader-interest which make for pleasant consumption.—EBM

GUNS — HANDGUNS

By Larry Koller
(Random House, each \$2.95)

These two new books fill a definite void which has existed of late in the gun book field, that of the "introductory" volume for the novice. But there is a plus feature with these handy, approximately 136-page hard cover books, written by nationally known gun expert Larry Koller, for they contain much current price and description data of American and some foreign sporting weapons.

"Guns" is a more general volume, containing chapters on "Close-cover rifles," "Rifles for dangerous game," "Small-game shotguns," "Small-bore rifles," "Clay-target guns," "Handguns," and "Scopes and mounts," plus several other chapters including specifications of American guns, scopes and other items.

"Handguns" duplicates only a very small part of the first book, "Guns." A much more complete volume, "Handguns" begins with a brief summary of handguns in American history, touching on the high spots. Illustrations are charming woodcuts from old papers, including several early pictures of Colt revolvers, and a magnificent illustration of a French duelling pistol. With the pictures are captions containing vital statistics and current prices. Altogether, these two volumes are worthwhile additions to the gun fan's library.—WBE



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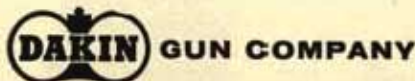
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Vissing Scope Covers

ALL HUNTERS experienced with scope sighted rifles have at one time or another seen the need for good foolproof lens covers for each end of their scopes. The covers need to be dust and waterproof and frost proof as well, yet permitting instant removal for that quick snap shot that so often occurs in timber hunting. For years, many of us used a section of auto inner-tube cut long enough to cover the lenses of the scope. The tube is simply placed over one end of the scope and pulled back over the other end; can be jerked off in an instant. But it was unsightly and often flipped out of hand when snapped off, to become lost in brush or snow.

E. D. Vissing of Idaho Falls has patented an excellent, very light, workable set of lens covers. They slip on the ocular and objective ends of the scope friction and water tight with hinged lids that seal in a neoprene ring, water- and dust-tight. The lids have a small button or projection on one edge which can be positioned for either right or left handed shooters. Covers can be opened with a simple motion of the two thumbs as the rifle is mounted for the shot. The rear cover flips up vertically, while the front cover flips out to a horizontal position to act as a rain and sun shade. Opening or closing takes but a few seconds. Cost of the Vissing covers is about the same as a box of .30-06 cartridges, or less. Being made from a tough pliable DuPont product there is nothing to break or get out of order and they cannot come off or get lost from the scope.

Never Mix Makes or Lots

Cartridge cases, especially for high power rifles and to a lesser extent for sixguns, vary greatly in weight as they come from the different makers. They also vary in weight from lot to lot by the same maker. The thicker the brass, the smaller the powder chamber. As cases from different companies may vary as much as ten to fifteen grains in weight for the same cartridge, the reloader can readily see what a difference this can make in powder capacity of the case. We have found the capacity to vary as much as five grains in a .30-06 case. This also means a difference in loading density, which in turn means erratic and greatly varying pressures and velocities. In some cases it can cause a load that is normal in one make of case to be excessive and dangerous in another make of cartridge case with smaller internal capacity.

Match shooters have long been aware of this and, if possible, load only one make and lot of cases for any fine long-range shooting. Some even weigh the cartridge cases of the same lot and make to be sure they have the

same amount of brass in each case, segregating them into lots of the same weight for finest accuracy.

Different weight cases can also cause pressure variations by giving a varying bullet pull. The heavier the case, the more friction and the greater the bullet pull of the neck of the case. Even more important is the fit of the neck of the case in the neck of the rifle chamber. The thinner brass will of course expand to greatest diameter inside, while the heavy, thick necked case will not expand as much. Thus if chamber throat or neck has too little clearance (and a case neck can vary as much as five thousandths from side to side), then the case neck may not expand enough to allow the bullet to center the barrel throat when fired, and the bullet is started crooked with the bore.

It is imperative that rifle chambers be chambered fairly close over the body of the case yet have ample clearance at the neck for all case variations in thickness so the bullet can and will start concentric with the bore when fired. A case thick on one side and thin on the other naturally crowds the bullet to the thin side and out of alignment with the axis of the bore. Inside expanding plugs do leave the inside of the case neck about the same size for all cases, but they cannot correct a case that has thicker neck walls on one side than the other. Chambers with minimum clearance at the neck (.002" to .003", for instance) should only be used with cases whose necks have been reamed inside a die to a uniform thickness around their perimeter. Unreamed cases should have about .005" clearance in the neck of the chamber before firing.

Cast Bullets

Wisler Western Arms Co., 205 2nd St., San Francisco, Calif., carries a line of cast, sized, and lubricated revolver and pistol bullets, ready to load. These include my Keith-Lyman Ideal bullets in .38, .357 Magnum, .44 Spl. and Magnum, .45 auto rim, and .45 Colt. They are cast fairly hard, just right to hold the rifling and just right for a minimum of distortion in the process of upsetting to fill chamber throats and in passing the barrel-and-cylinder junction in revolvers. These are wonderfully accurate bullets, beating factory loads for accuracy. They may be had in regular alloy or the copper coated which is even better for high velocity loads. Pressures are much lower with these bullets than when the soft factory lead bullets are used.

Everlasting Rifle Cases

Years ago, the Ideal Company used to advertise everlasting rifle cases. These were thick, heavy, hand turned cases and required
(Continued on page 66)

...accuracy for
game or range



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HOW TO CHOOSE THE BEST DEER RIFLE



**THERE IS NO "ALL AROUND DEER RIFLE," BUT THERE
IS A RIGHT RIFLE FOR EVERY HUNTER, DEPENDING ON HIS METHOD**

By PAUL MATTHEWS

NEXT TO PICKING a wife, the selection of a deer rifle is one of the important decisions in a man's life. That rifle has to spend many weary hours on the trail, remain discreetly mute in those cussing moments following defeat, yet speak sharply and to the mark when the hand is dealt and the show-down comes.

Why can't a man buy almost any rifle on the market and feel assured (as the manufacturers are) that he has made a wise choice? Why all this hullabaloo about killing power, velocity, and bullet weight, to kill a small, highly nervous animal that seldom dresses over 150 pounds? The truth is that many hunters (and dealers) simply fail to accept the fact that although the white-tailed deer has been killed

efficiently with every caliber from a .22 rimfire on up, there is a *best* rifle-cartridge combination for each individual method of hunting.

I have killed deer with the .22 rimfire, and with the .32 Special, the .30-06, the .45-70, and the .375 H&H Magnum. I have dissected and photographed deer killed with some of the in-between calibers, and I have tested many of the various calibers on blocks of gelatin at actual hunting ranges. I know a hunter who not only *feels* adequately armed but *is* adequately armed with a .25-20. I know another hunter who killed three running deer in as many seconds with three shots from a .300 Savage. These men are experts, each in his own field. They know the gun they

want, know how to use the gun they have. But the man with the problem is the average fellow who shoots a deer rifle maybe three or four times the day before the season opens and then hopes to connect with the first legal animal he sees. What gun should he buy?

The proper selection of a deer rifle depends entirely on the way you hunt.

Here in Pennsylvania the deer hunter can and does encounter both long and short range chances in a single day. Generally speaking, however, there are three types of hunters or methods of hunting. You will find the "drive hunters," men who like a lot of fast and furious action, smashing through sections of timber and trying to push the deer ahead of them. And there are the "trail watchers," who sit hunched up against the bole of an old beech-nut tree or huddled over a small fire waiting for their buck to come along a known deer crossing. And there is the "still-hunter" who hunts Indian fashion in the shady swamps, laurel thickets, and dense patches of overhanging hemlocks, matching stealth and woodcraft against the deer's keen senses.

For the "drive-hunter," a prime consideration in the choice of rifle must be weight. This man will cover ten to twenty miles in a day's time, climbing through fallen trees, over stone fences, across rocky creek bottoms, and along ridges and ravines that would challenge a mountain goat. These men dress light, carry as little as possible. A nine pound rifle in the morning weighs next to nine tons at night. The rifle for the drive-hunter should not weigh over seven pounds when fully loaded. This excludes the commercial bolt actions with the exception of the Featherweight Winchester Model 70. The majority of rifles falling within this weight limit are lever actions. Winchester offers the Models 64, 94, and 88 while Savage produces their Featherweight 99. Marlin offers a good selection in both rifle and carbine models, designated as Models 336 or 336-ADL. The Remington 760 Gamemaster is also a good choice when it is lightened by chopping off about four inches of barrel. Actually, a rifle barrel longer than twenty inches is unnecessary for the "drive-hunter."

Another almost equally important

consideration is caliber. Under no circumstances should the drive-hunter choose a rifle of less than .30 caliber. He must rely on bullets of sufficient weight to carry through some brush without severe deflection, and the small caliber, high-velocity cartridges simply cannot do this. The drive-hunter almost invariably has to take his shot fast, at a deer that is on the run. The hunter does not have time to pick an opening through twigs and laurel; the bullet has to cut its own path. In my opinion, the best commercial cartridge for that job in a rifle of the required weight is the Winchester .358. As a second choice, I would pick a rifle chambered for the .35 Remington, followed by the .308 Winchester and the .300 Savage in that order. The .30-30 and the .32 Special, however excellent they have proved in the past, are definitely not in a class with the loads mentioned.

Finally, we ought to consider speed of fire, for the drive-hunter is usually shooting at running deer. Where a well-placed bullet will usually kill a brouseing deer outright, a similarly placed bullet on a running buck often fails to stop them quickly. Excluding



High-ridge trail watching requires accurate bolt gun like .375 Enfield.



Fast-action plus HV medium power loads adapts Savage 99 to still hunt.



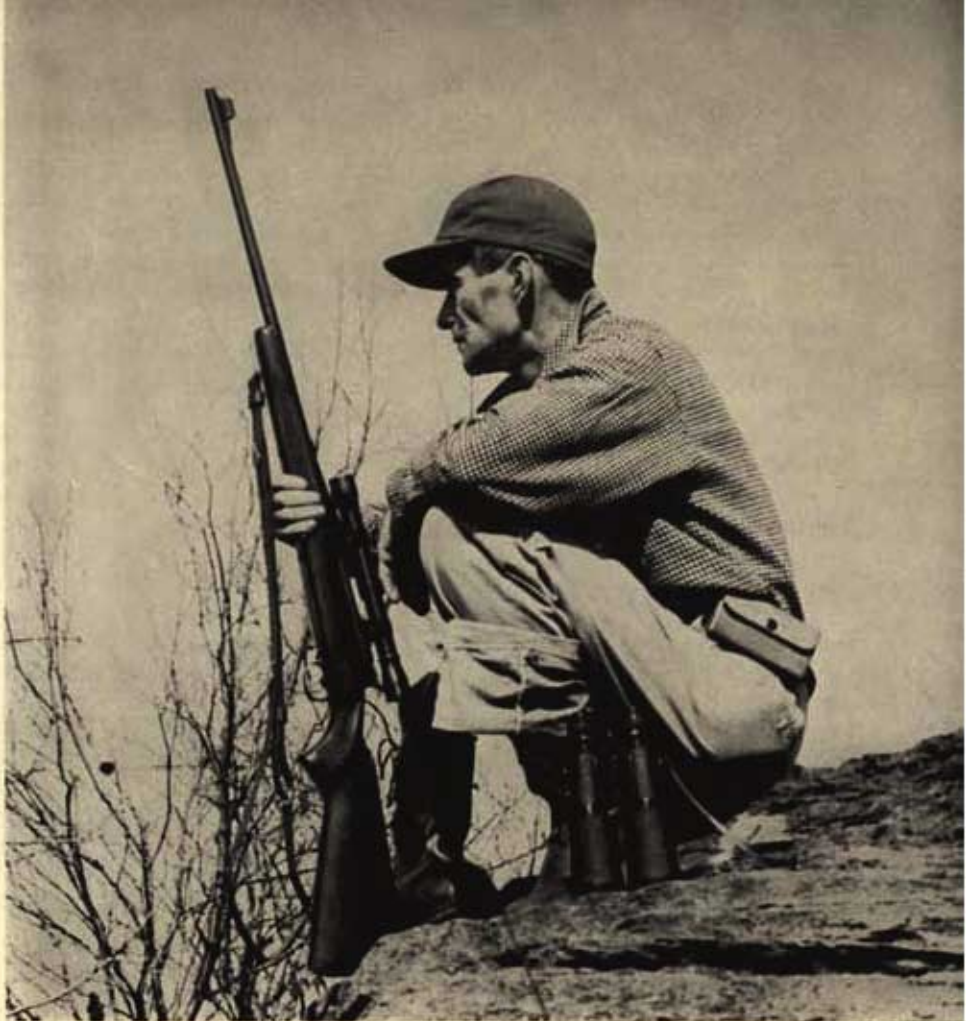
Custom-built .30-06 Springfield is for drive hunting, light but powerful.

the semi-automatic, which in most states is illegal, the slide-action rifle is fastest for most shooters, with the lever second and the bolt action last.

The "trail-watcher" category might be split into two sub-divisions; those who perch on high ridges where they can overlook canyons, gorges, or acres of open country, and those who blend in with the wooded surroundings and watch along the edges of swamps or ledges.

The former trail-watcher is going to need a rifle capable of accurate, long range shooting. This means a powerful rifle maybe of magnum capacity, scope-sighted, and equipped with a sling. Extra weight might be considered advantageous when it comes to steadying a rifle in a strong mountain wind or absorbing recoil from a powerful cartridge, and it is no hindrance to the hunter who is going to remain in the same spot all day. A trail-watcher in this category ought not to consider any rifle other than a bolt action. Admittedly it is *possible* to make a long range hit with a lever or slide action rifle, but it is a lot more *probable* when you are armed with a bolt action of ample caliber.

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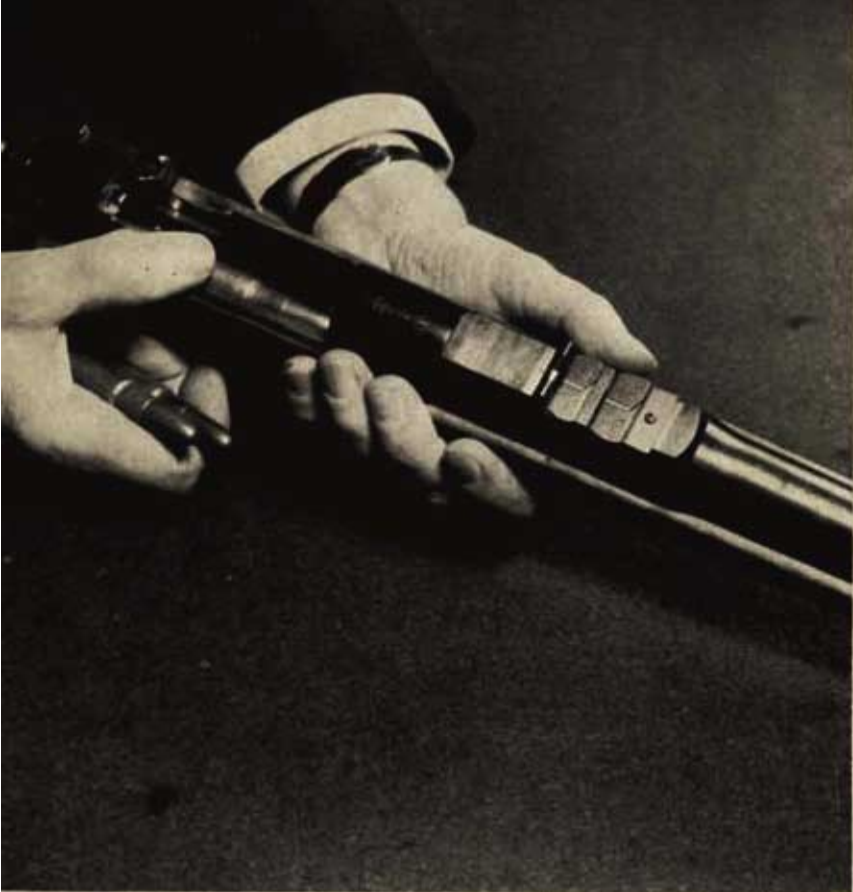


Scoped .270 aided by Hensoldt glasses are used by Lyle Jackson for open country trail watching.

First-shot speed with safety is merit of .348 Model 71; fast, natural pointer, with plenty of wallop for heavy brush.



Author's favorite is .45-70 Ackley barreled, Model '86, with Redfield peep rear and Sourdough blade front sights.

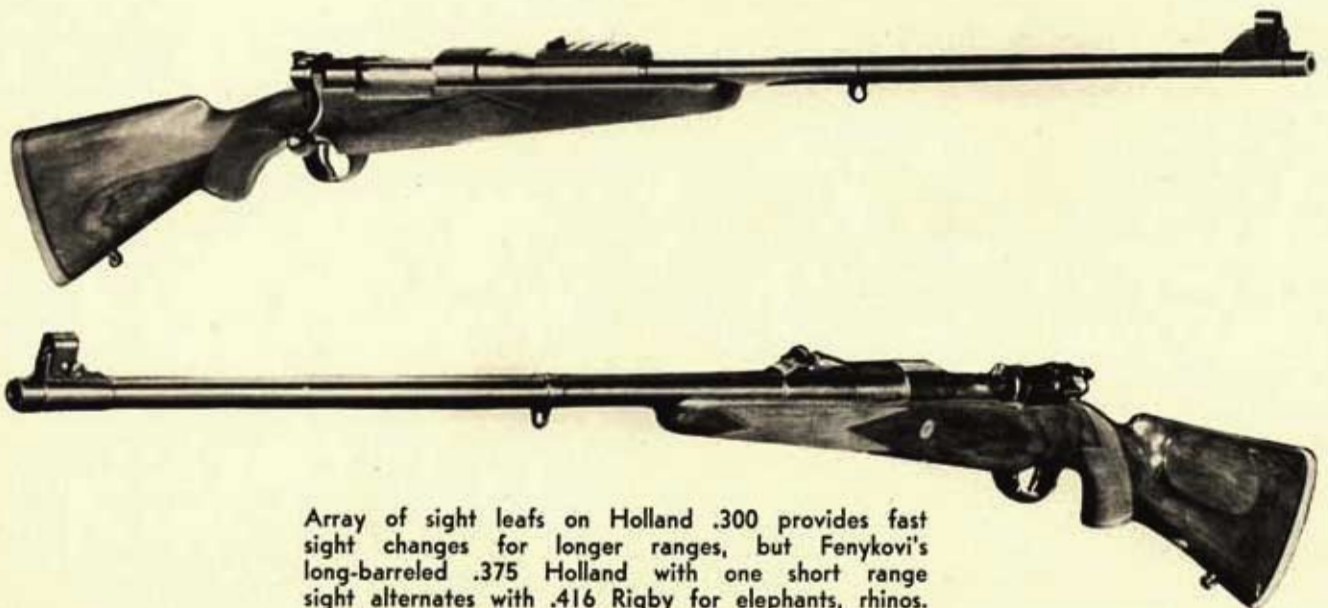


GUNS FOR

Madrid sportsman Fenykovi who hunts in Angola slammed 12 heavy .416 slugs through his Rigby Mauser to take world's biggest elephant.

By JOSE J. FENYKOVI

**WHEN HE'S BIG, CLOSE, AND WANTS TO KILL YOU,
YOU WANT A RIFLE AND BULLET, THAT WILL STOP HIM — NOW!
HERE IS THE ADVICE OF A MAN WHO HUNTS THE WORLD'S BIGGEST BEASTS**



Array of sight leaves on Holland .300 provides fast sight changes for longer ranges, but Fenykovi's long-barreled .375 Holland with one short range sight alternates with .416 Rigby for elephants, rhinos.

DANGEROUS

GAME



Smiling triumphantly, Fenykovi holds his .416 Rigby with which he shot what may be largest land animal ever killed by man, including mammoths.

ANGOLA IS THE PART of Africa where you find the biggest blank spots on the map — and the biggest animals. Here are enormous territories still unexplored, where the life of Portuguese East Africa “south of the bulge” goes on exactly as in the days of Stanley and Livingstone and for thousands of years before them. It is here that I hunt, spending several months each year in the pursuit of dangerous game.

Game here is not as tame as in the great African reserves or national parks, where tourists roam with cameras in their automotive cages to amuse the animals. Here the wild tribes, hunting with their primitive spears and bows, teach the animals to fear man, yet the hunting pressure is not great enough to wipe out the big ones. It was in Angola, near Bechuanaland and the Rhodesian frontier, that I shot the biggest elephant ever recorded—an elephant measuring a foot taller at the withers than the previous world's record. His hide alone weighed two tons. He stood 13' 2" high, was 33' 2" long from tip of trunk to tip of tail. Jumbo, the famous American circus elephant, lacked nearly two feet of this stature, measuring 11' 6" at the shoulders.

I used a Rigby .416 bolt action Mauser on this monster, and it took 12 of the heavy .416 bullets and four slugs from my .375 Holland in the hands of my hunter, Mario, to anchor him. And small wonder! At the largest part of his body, he was 19' 8" in girth. The tusks, though not the biggest on record, are good; they are more than seven feet long and over 200 pounds in weight.

Although it took many shots to finish this tremendous

tusker, the shock effect and killing power of the .416 is amazing and I am very much pleased with the results I have had with it. It is a pity that America makes no ammunition for this caliber. British makers like Kynoch still cling to their old “cordite” loads, with the result that their big game loads are 40 years out of date in comparison with American cartridges.

African hunting is full of surprises. You may hunt for days in country heavily populated with game and see nothing worth shooting; or you may step a few feet from camp and come face to face with a record trophy. But some of the biggest surprises are in the stories one reads in the reports of safari hunters. I read some time ago in an American magazine how one of these safari tourists shot a leopard in Kenya at 300 yards. This surprised a lot of old Africa hunters who doubt that anyone can see a leopard in his own habitat at 300 yards. They're hard to see at one-tenth that distance. But a story is a story.

But to go back to the subject of the size and quantity of game in Angola, I should point out that, even here, finding the game you want is a matter of chance. You may see plenty of game in a given locality one year, find nothing there the next season. However, there was a year in which I saw 17 lions, of which I filmed 12 and shot two. On one expedition I saw 11 lions in one month. I own the world's largest lion skin, shot by my “white hunter.” And Angola also gave me the world's largest rhino. They come big here, and not gentle.

In hunting such game as this, one of the hunter's most important problems is the proper choice of guns. Of course,



Cape buffalo was brought down by spine shot. Fenykovi stopped animal with 300 grain solid bullet from .375.



Giant sable antelope fell from neck shot of 7 mm Sauer soft-point. Trophy went to London Natural History museum.

no rifle will properly serve a hunter who lacks the knowledge, the nerve, and the skill to use it correctly. But if a man knows where and when to shoot, can face a charge if one comes, and can place his lead where it counts, he lacks only the right gun and the right ammunition to get his trophies.

The truth is that any rifle or ammunition of more than 8 mm (say .30 caliber) is powerful enough to kill dangerous animals, providing shots are well placed. Elephants, buffaloes, lions have been killed with .303 rifles; and, in earlier days, shotguns of 10 or 8 gauge with adequate bullets were used for such game. Much has been written about the "shock effect" of modern guns with high-speed ammunition, and it is true that light, high-velocity rifles can be

used for dangerous game. As a matter of fact, hunting in Mavinga in 1952, I had the chance to test this theory, bagging about 80 head of game ranging from the small Duiker and other antelopes to buffalo and rhino. The conditions were excellent and I was able to film many of these kills.

Fortunately, I never had to face a charging animal. I say fortunately because I was convinced that the "shock effect" of the small-caliber, high-velocity bullets is more exceptional than typical. Even relatively small animals such as reedbucks, which should theoretically have been dropped by shock even if not hit in a vital spot, continued to run after reasonably good hits, and heavy animals such as elephants, rhino, and buffaloes might run for miles unless hit in the head or spine. It is because of experiences like mine that the professional "white hunters," who may at any time have to face charging game which they must stop to save their own lives or the lives of their hunters, chose big-caliber rifles of .475, .500, or even .600 bore. The "white hunters" call these big rifles life savers because they will stop any charging animal, even bull elephant.

Yet few hunters going to Africa use big-caliber rifles. The reason is simple. The big rifles are extremely heavy, weighing over 10-12 pounds, and they are very expensive. They are manufactured in double-barrel "express" form and their price is four to five times the price of a medium caliber bolt-action rifle. The sportsman hunter who goes once to Africa or India is generally satisfied with a .375 or .416 bolt action. These rifles are no heavier than shotgun and are easy to carry. With them a hunter can kill dangerous game, even pachyderms, as long as he does not have to face a furious attack in close quarters. In this case, these medium calibers, even with high initial velocity, are no guarantee to stop a charging animal. Therefore the tourist hunter should never go out alone into the bush, but should always be accompanied by an experienced professional hunter who carries a rifle of superior power.

As a whole, in spite of the endless stories and different reports of African tourist hunters, dangerous animals attack only on very rare occasions. Animals are more inclined to run away from the hunter. A good big game hunter is never the man who kills an animal from 250 yards distance or more, but the sportsman who, taking advantage of his skill and experience, approaches (Continued on page 36)



Cordite-loaded British ammo is described by experienced African hunter as bad stuff. Fenykovi likes U.S. shells.

HAVE
FUN
WITH
GUNS

GO LIGHT AND HUNT HAPPY

By CLIFTON CAMP



The right boots, the right clothing, the right piece of equipment in your pockets, can make the difference between fun and misery on a hunt. Lack of a two-bit item can spoil a \$500 trip.

**SECOND IN IMPORTANCE ONLY TO THE
GUN IS THE EQUIPMENT YOU CARRY.
HERE ARE SOME TIPS ON WHAT TO BUY**

FOR WANT OF A NAIL, the shoe was lost . . ." And the loss of the shoe, in that storied instance, caused the loss of a kingdom. In exactly the same sense, the lack of one small, seemingly insignificant item of equipment may spoil a hunt. "Go light and hunt happy" is good advice, but it must go hand in hand with the Boy Scout motto, "Be Prepared." What you need in hunting you'll need badly. What you don't need is the burden.

The most important single item you will carry on that hunting trip this fall is the gun. But any number of things could happen that would make one dry match or one short strand of wire or cord or whang leather assume amazing importance. And there are many items which, included in your kit, can make your trip a lot happier, a lot safer, and more successful. It is an old hunters' axiom that if you dress well, sleep well, eat well, and keep well, hunting is fun even if you don't blood your weapon. Conversely, sore feet from ill-chosen or ill-fitting boots can make you miserable even on the day you drop a set of trophy antlers. And the lack of one small item of equipment—be it a knife, a screwdriver for sight adjustment, a pain-killer for headache, or a compass to get you home safely—can ruin a trip that may have cost you hundreds of dollars and months of anticipation.

Where you go, what you hunt, and how you hunt it, will affect the question of what you will need to carry and what you should include in your camp kit; but let's assume that it is a big game hunt and that it's within the continental limits of the United States. For most of us, that means deer. So let's think of this as a deer hunt—trying, at the same time, to keep it general enough to apply, with appropriate modifications, to other types of hunting also.

Few things can contribute as much to your comfort, or to your misery, as the clothing you wear. It can make or break the success of your hunt by helping or hindering you in getting game, also. Here are a few tips: Boots are the most important single item of hunting clothing, so buy good ones. I hunt more than most people, so I have three pairs of hunting boots, of different types. Perhaps my reasons for choosing them will guide you in choosing yours.



Trail watching hunter goes in for real comfort with warm clothing, a "stove" seat, and snug arctic boots.

Where hunting areas can be reached by car, equipment can include extra guns, most of the comforts of home.



The boots I use most often and for most types of hunting are the type widely known as "bird-hunter" boots: full moccasin construction, with fairly heavy but pliable soles, tops ending just above the ankle. As hunting boots go, these are light in weight, made of soft leather that molds to your feet. Soles are thick enough to protect against stones, stiff enough to give a toe-hold in climbing. I like half or three-quarters of an inch extra heel-height for better balance when packing and for digging in on downhill trails. Soles and heels can be any one of several "composition" materials, roughly treaded. These cling to more kinds of footing, wear better, prevent slips and falls better, than either rubber or leather.

If I'm hunting in "snakey" country, I wear Gokey snake boots. These too are full-moccasin construction, same soles and heels as above, but with "stovepipe" knee-high tops of two thicknesses of hard leather with fine-mesh screen between the layers. These boots are expensive, they're not light, and I'm not particularly fond of heavy leather up around my calves—but I do like having that half-inch of stiff leather and wire between me and the rattler I may not happen to see! Over these, I wear wide floppy pants legs, the idea being to give the snake a wide target—only a part of which is me! It should be understood that these are special precautions, essential only where poisonous snakes are numerous.

Both of these boots, the bird-hunters and the Gokeys, are bought big enough to permit wearing a pair of medium-weight wool socks over a pair of light wool or medium cotton ones. This gives three choices, depending on weather and ground conditions: two pairs of socks for real cold or snow, the heavier wool ones for medium-cold weather, the light wool or cotton for warmer days. Try to adjust footwear for reasonable warmth without sweating. Feet wet from sweat will soon be cold feet, are apt to be sore feet also. And speaking of socks, take at least two pairs of each weight for any trip of more than one day duration, for daily changes.

My number three boots are for real mountain hunting, where I'll be doing lots of climbing, moving up or down or across steep slopes, where I'm apt to encounter packed snow or ice. These boots are a half-size larger than either of the others, because I'm sure to want both pairs of socks here (or even two pairs of the heavier ones), and because my feet swell badly from that kind of punishment. The heels are a good half-inch higher than on the other boots, too—for still more dig-in. And the soles and heels are armed with loggers' drive-calks and edging hobs. The tops are 14 inches high, heavy and strapped for maximum ankle support. (If you're tall, you may want 16 inches, but not taller.) I don't wear these boots unless they are really needed; but for really rough going, for icy slopes, or for walking the logs of a windfall, nothing can equal them.

There's one additional item of footwear that I list among the essentials. That's a pair of comfortable camp slippers. Clean socks and comfortable light shoes are worth their weight in gold after a day of rough going, and your feet will feel better tomorrow also. Remember that you'll be wearing these loafers in camp, not in carpeted rooms, and decide for yourself whether you want the luxury of soft soles or the better foot-protection of hard ones. My own camp loafers are of soft, light leather, ankle high, with zipper closures, with hard soles just thick enough to protect against the stones and sticks I'll step on around camp.

For underwear, I like light-to-medium-weight wool union



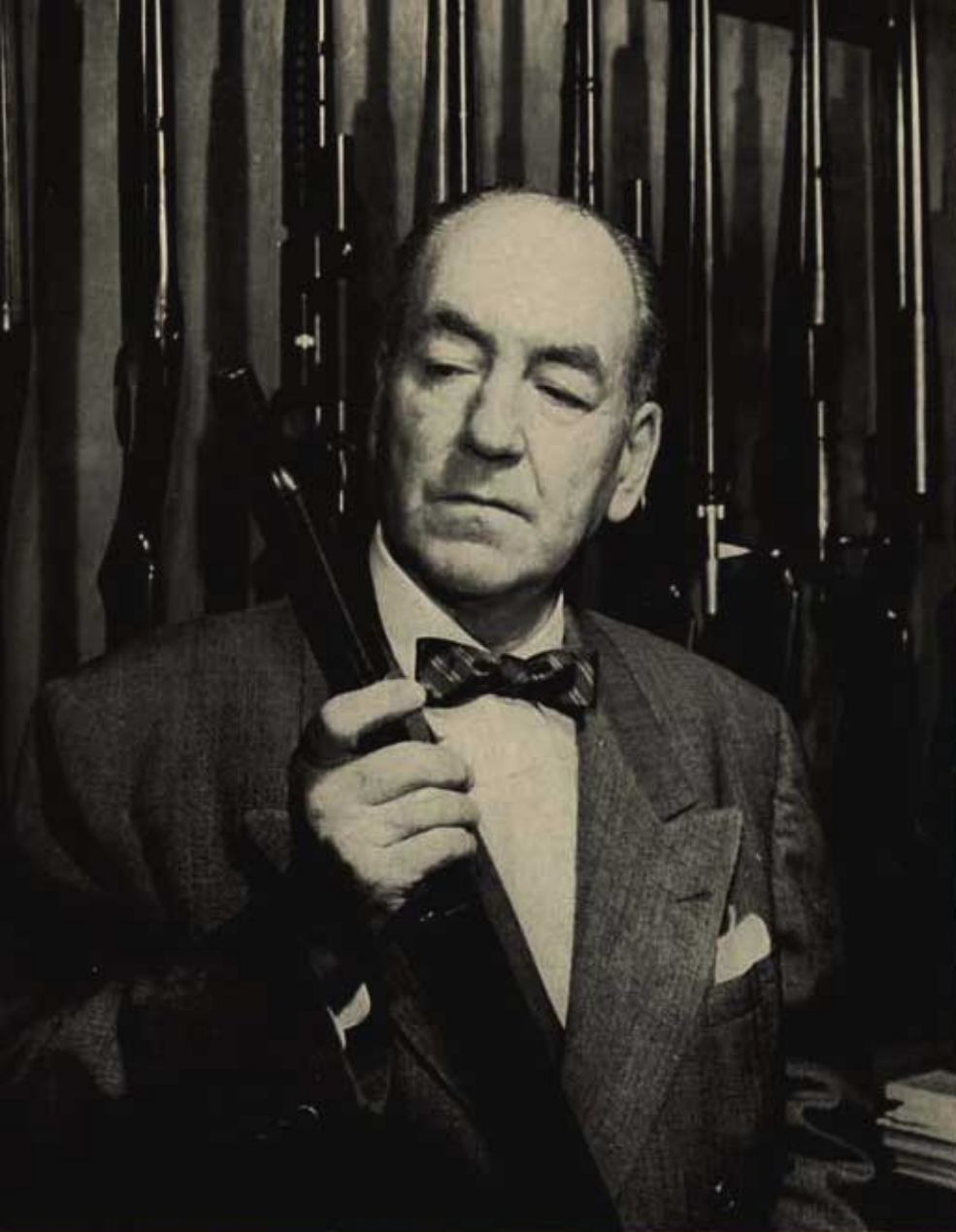
If you and your friends hunt the same area year after year, a well equipped cabin like this makes hunting real fun even for office-softened adventurers.

suits, large enough not to bind. If it's really bitter cold, two light suits are better than one heavy one. If you can't wear wool next to your skin, you can buy underwear made of two layers, cotton inside and wool out.

For shirts, I buy light-weight wool ones, roomy, figuring to wear two if I need them. Trousers should be of heavy wool or heavy cotton depending on weather, but heavy in either case and of tight hard weave to withstand wear, prevent snagging, provide protection against scratches, and to resist water. They must *not* be of a material that will be noisy in the woods, either when they rub against themselves in walking or when brush strikes against or drags across them. With my bird-hunter and mountain boots I wear the ski-style trousers with baggy legs down to a tight knitted cuff at the bottom. With the cuff snug down over the boot-top, a man is pretty well armored against cold or snow. If you prefer straight-legged trousers, be sure they

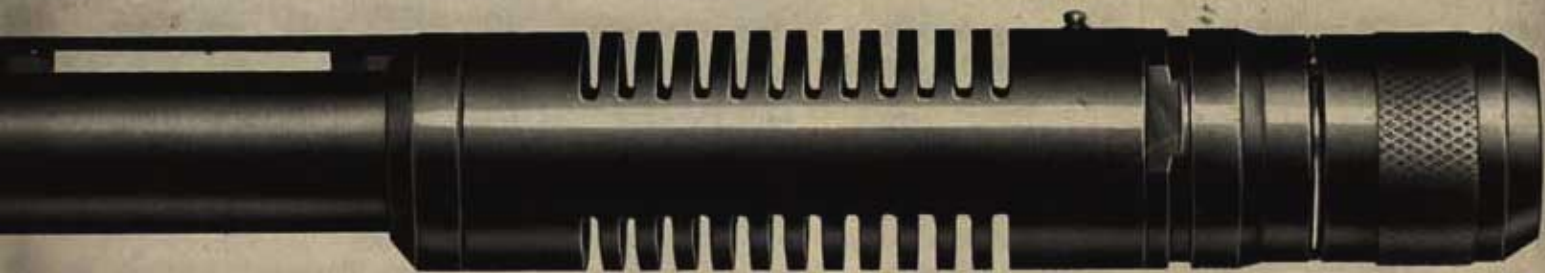
are cuffless and shorter by a couple of inches than your dress trousers. Turned-up cuffs snag, catch snow and water, are a general nuisance. Too-long trouser legs may trip you. Or if you insist on the choke-bore breeches fitted to wear under boots or puttees, be very sure that they are loose, even baggy, around the knees and upper calves. Otherwise, they're sure to bind painfully, cramp your legs in sitting or kneeling.

Gloves and/or mittens are invariably a nuisance, but weather can make them essential. My favorites when forced to wear any hand-covering are light, tight-weave and close fitting wool gloves with pigskin palms. The wool is warmer than leather, the close fit doesn't interfere too much with the trigger finger, and the pigskin palms provide a good grip on gun, bridle reins, or steering wheel even when wet. If it's really bitter weather, I supplement these with a couple of hand-warmers, one (Continued on page 42)



Browning auto rifle made at Colt's and dubbed "Monitor" for police use employed a Cutts Comp to control it in full-auto firing.

Co-designer of Compensator, General R. M. Cutts, Jr., examines shotgun fitted with device he and his father pioneered in 1920's. Cutts Comps are standard on many guns, include new model (below) with variable choke collet.



THE STORY



By BRIGADIER GENERAL RICHARD M. CUTTS, Jr.



THE JUNGLES OF HAITI abound with birds of many colors and startling beauty. But to a lot of hungry U. S. Marines stationed in that country during the rebellious times of some 30 years ago, those birds attained even greater beauty when broiled to a golden brown over twinkling bivouac fires. Few shooters today know that this hunger for a change from the monotony of field rations had much to do with the development of that now-common shotgun attachment, the Cutts Compensator.

My father, the late Colonel Richard M. Cutts, was with the Marine detachment sent down from the United States to keep order on the romantic treasure isle of "Hispaniola" or Haiti. It was the custom of the officers to augment their mess with any game they could bag, and Colonel Cutts seemed somehow to have better luck than his fellow officers in supplying himself with "jungle chicken." Because of this consistent good fortune, the other shooters began to examine with much interest the odd little contraption which adorned the muzzle of Colonel Cutts' gun. It was a gadget designed for military purposes, but one that soon took its place in the world of shotgun sports. The attachment, of course, was the forerunner of today's Cutts Compensator.

My father had designed this device after some kick-

Cutts Comp makers Dick Lyman (left) and brother Charley shoot skeet with spreader and full-choke tubes on Comps.

**POPULAR MUZZLE DEVICE FOR SHOTGUNS WAS
DESIGNED FOR MACHINE WEAPONS, WON ITS FIRST
FAME AS BIRD-GETTER ON DUTY WITH MARINES IN HAITI**

OF THE CUTTS COMP

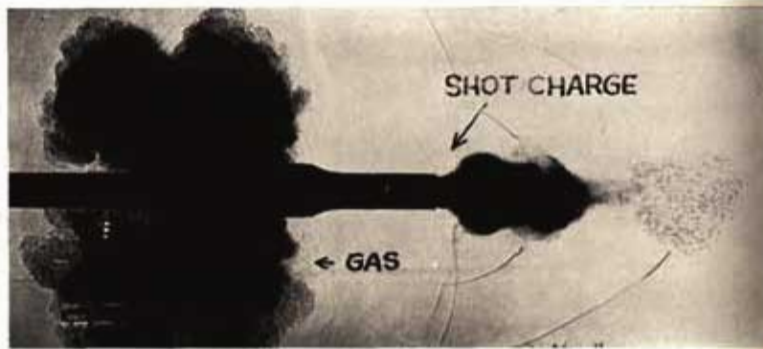


Waiting at Fieldale, lady skeeter shows preference for Comp wide pattern spreader tube.

reducing experiments he and I had done on the Tommy Gun. The compensating devices which we developed in our submachine work were primarily to avoid the muzzle rise of the Thompson gun on full automatic fire. As the gun recoiled after the first shot, and before the shooter could recover from the kick, the gun would fire its second shot and the muzzle would bounce still higher. Successive shots would punch the muzzle up and up, with the shooter himself actually assisting the climb rather than hindering it, simply because his muscular effort and delayed muscular reaction prevented the gun from dropping to its original level so that its jump started from a higher point after each shot. The Cutts Comp we worked up for this gun did not affect the flight of the projectile as did the latter shotgun choke devices, but it did vent gas from top slots while retaining the gas pressure against a solid bottom. Thus the gas forced downwards on the Comp and muzzle rise was reduced.

The first Compensator attached to my father's shotgun in the Haitian jungles was a parallel design to the Tommy Gun Comp. It, too, had slots, but the reduction of kick in a full automatic weapon was less important in the sporting gun than were other features. It did reduce recoil; but the idea of fitting detachable choke tubes to the compensator had occurred in the early stages of designing and by having a single-barreled gun with several different chokes at his disposal, my father had increased the game-getting efficiency of his gun. He had no conception at that time of the commercial value of this extraordinary product. That came later and, I must confess, at my instigation.

Actually, the birth of the Compensator occurred in 1926, just after we had been issued our first Browning (Continued on page 50)



Shot charge passing through Cutts Comp is shown in spark photos made during design period. In first photo, top wad has sealed choke tube and expelled air from muzzle, while in second view shot charge has been shaped by tube and is just emerging. In bottom view over-powder wads fall behind shot, avoid "blown patterns" and missed birds.





THE .30-06: WORLD'S MOST VERSATILE CARTRIDGE

Creator of fine
bullets for .30-
06 is Fred Barnes
of Durango, Colo.

DESIGNED FOR WAR, FAVORITE FOR TARGETS,

USED BY HUNTERS FOR EVERYTHING FROM RABBIT TO MOOSE—THAT'S THE .30-06

By COLONEL B. R. LEWIS

Chief, Ammunition Group, Frankford Arsenal

AMONG THE WORLD'S CARTRIDGES probably no other is as well known as the United States' caliber .30, Model 1906. Since its adoption, this cartridge has been a favorite of hunters and target shooters. Wildcatters have made innumerable modifications of the cartridge case, altering case length, slope of shoulder, length of neck, and caliber, but usually retaining the basic cartridge shape and characteristics. No doubt this was often a matter of convenience, as the official components have always been of excellent quality, reliable vehicles for experimentation. Wildcatting has not been confined to the civilians. Many variations have been tried at Frankford Arsenal also, but always they returned to the reliable .30-06. For so widely distributed, so

popular a cartridge, the story behind it is remarkably little known.

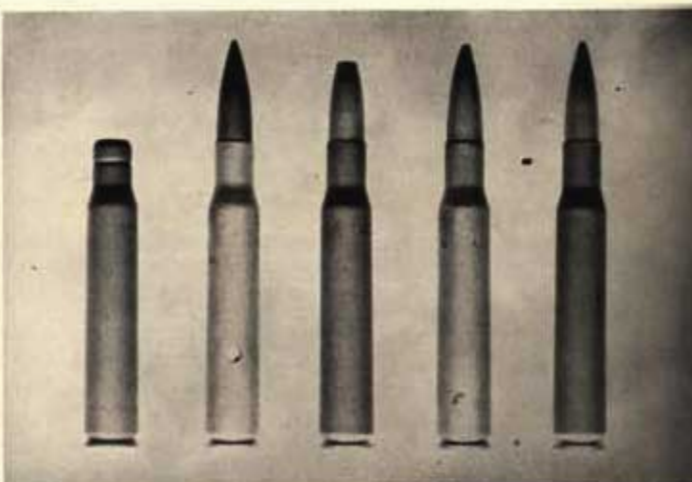
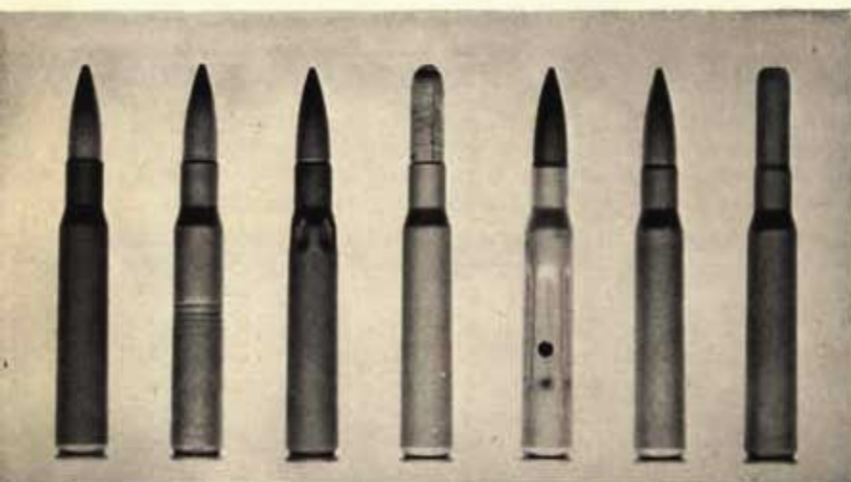
The decision to adopt a caliber .30 rifle was made back in 1890. For a while, ordnance officers considered using another single-shot action, based on the flip-up .45-70, but the need for a repeater prevailed. Tests included both rimmed and rimless types of cartridges, provided by the government for use by the inventors who submitted rifles for trial. In 1892 these trials culminated in the Army's selection of the Krag-Jorgenson bolt action system. The ammunition for this rifle, known variously as the .30 Krag, .30 USA, .30-40, or .30 Government, used a round-nosed, 220-grain bullet with a copper jacket, fulminate primer,



Early Springfields made during development of cartridge were M1900 with Mannlicher magazine, Lee-type cut-off; M1901 with rod bayonet, Mauser magazine; original M1903.



Early cal. .30 rounds are, l. to r., 1890 trial rimmed type; 1890 rimless; Krag .30-40 adopted 1892; rimless Krag tested 1901; round nose long neck 1903; pointed M1906.



M1906 cartridges in left picture are, l. to r., Ball; grooved Guard M1906; dented Guard M1909; Blank, M1906; Dummy, M1906; High Pressure Test; long-cased Gatling Gun Blank M1906. Later cal. 30's are (right photo) Blank, M1909; Dummy, WWI experimental; flat-tip M1917 incendiary; M1917 AP and Tracer, M1917 used in World War I.

and smokeless powder. Two earlier experimental single-shot rounds used copper and German-silver jackets respectively. About 1894 the Krag jacket was changed to cupro-nickel.

At first the loads were of European smokeless powders, such as Wetteren. But by 1892, Peyton smokeless powder became available in the United States. This was a double-base type, containing nitro-cellulose, nitro-glycerine, and ammonium picrate. This last ingredient made it necessary to tin the cases and the primer components to prevent deterioration, as brass is attacked by ammonia. Peyton powder had distinctive greenish hexagonal grains. Frankford made a change to "W.A." (Whistler and Aspinwall) powder in 1894. This was a single-base nitro-cellulose powder, characterized by yellow tubular grains with a single perforation. In 1898, the fulminate primer was dropped in favor of one based on potassium chlorate. The mercury in the fulminate mixture had contaminated the cartridge case on firing, by forming an amalgum. This resulted in embrittlement and eventually case failure upon reloading.

Meanwhile, a Joint Board had recommended that we change to a one-barrel-length rifle to replace both the rifle and carbine then in use. They asked for 2,500 feet-per-second minimum muzzle velocity and for a rimless case to permit clip loading a la Mauser. This was the requirement that led to the .30-06. They first tried to use the Krag case made without a rim but no powder then available would produce over 2,000 feet per second velocity with the 220-grain bullet. Though the new rifle, based on the German Model 1898 Mauser, was ready in 1903, further development was needed on the ammunition. The Model 1903 cartridge retained the Krag-type bullet, but even with a longer case it failed to give the desired velocity. Finally, a lighter, more pointed bullet, based on the German "Spitzer" type, gave what they sought, requiring only a slight change in the case. This cartridge, with shorter neck, was to be known as the Model 1906.

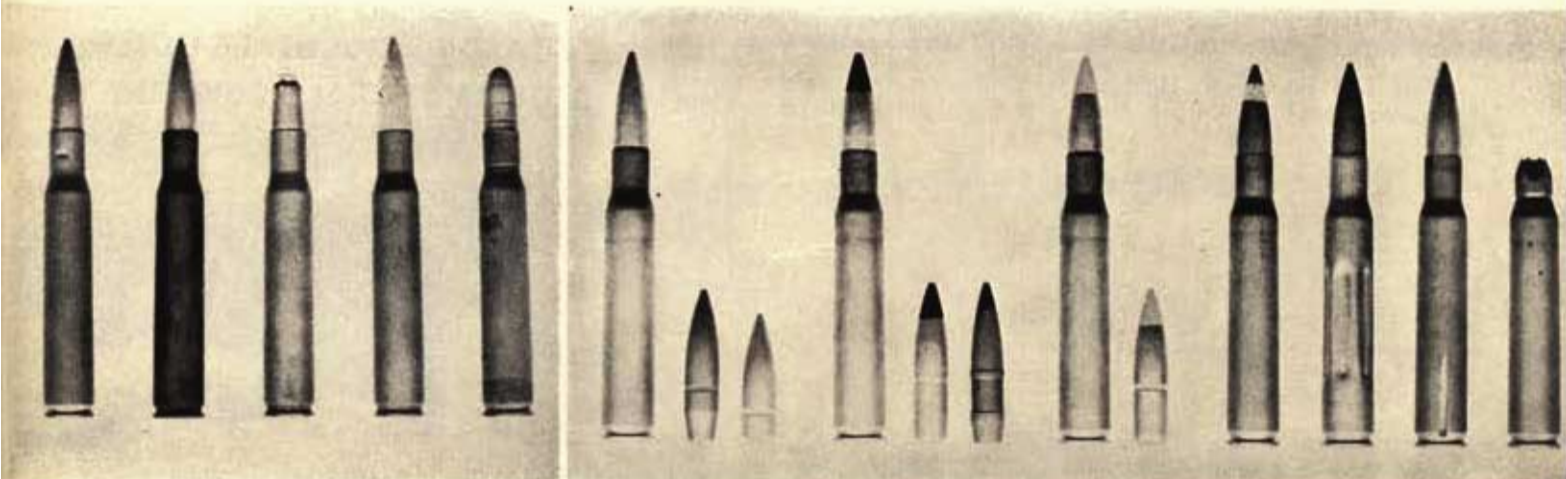
Since 1906, the changes in the cartridge have been in refinement of components. Primer, powder, and bullet have

all changed. The case alone has remained constant, though its manufacture has been greatly simplified and its performance much improved.

Accuracy has always been a primary consideration in the manufacture of military ammunition. Beyond a certain point extreme accuracy was not needed for combat use, but the philosophy has been that we must know how to make superior ammunition, then loosen the controls to produce the desired compromise between accuracy and cost and ease of production. There has been no compromise on reliability or safety. In the first years of making the .30-06 cartridge, the mean radius of an average ten-shot group at 500 yards was from seven to eight inches. By 1909, this had been reduced to 4.87 inches. In 1911, the mean radius of all ammunition produced at Frankford Arsenal was 3.92 inches, and in 1912 it was 4.13 inches.

Throughout the history of the .30-06 cartridge, a series of improvements has been made in the powder used. After the "W.A." came Pyro D.G., which was used from 1908 to 1919. The D.G. stands for diphenylamine graphited. A modification of Pyro D.G. known as MR1909 (military rifle) was used till about 1925. Then began a series known as IMR (improved military rifle) powders. The first of these employed in quantity was IMR1147. It contained a small amount of metallic tin, which helped to reduce metal fouling in the bore.

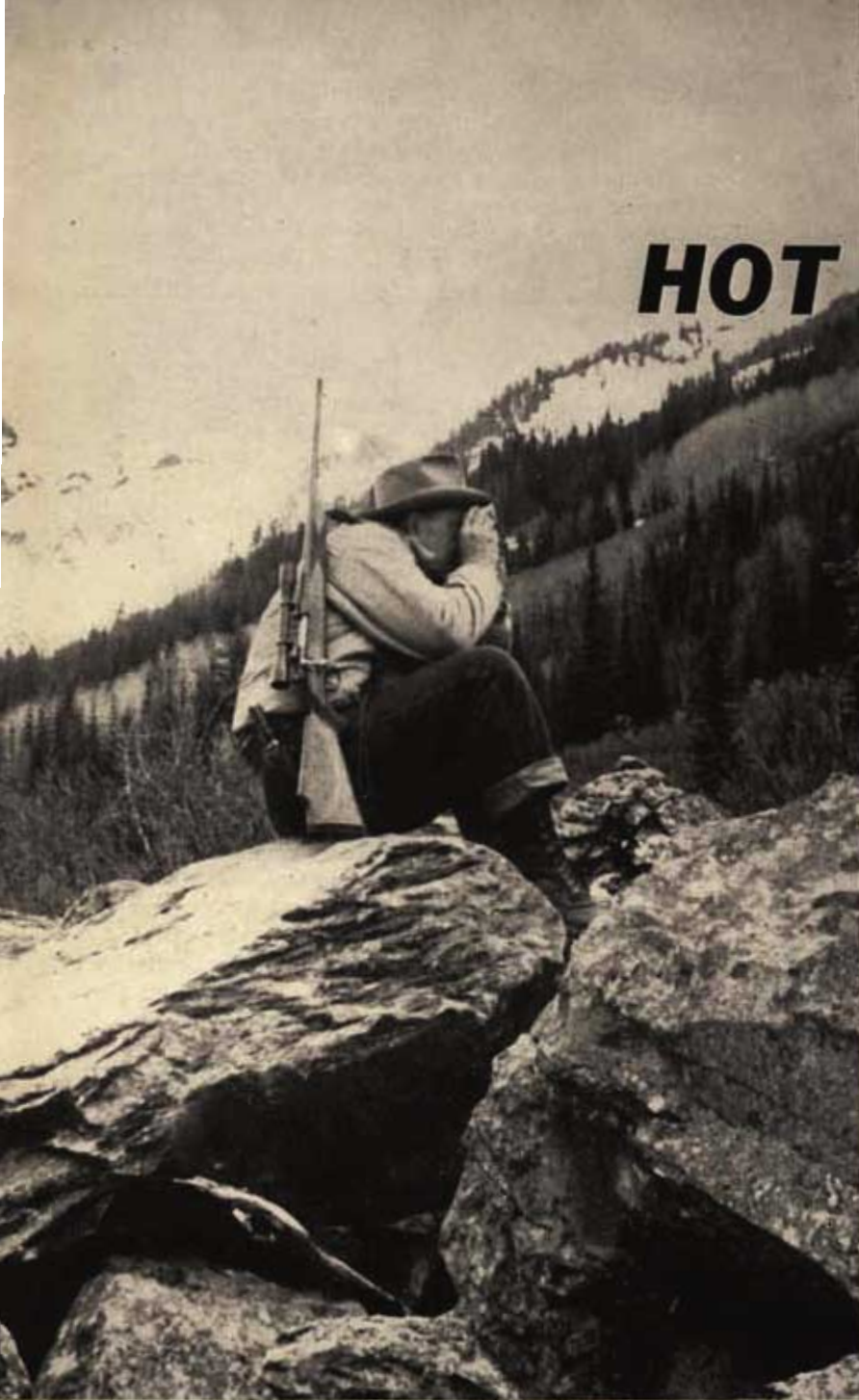
During World War I, the combatants used long-range machine gun fire extensively. When the AEF found that British, French, and German rifle ammunition out-ranged ours by at least 1,000 yards, they asked Ordnance to develop a cartridge with an effective range of 3,800 yards and with as flat a trajectory as possible. From this requirement came the M1 bullet, adopted in 1925. This bullet has excellent ballistic properties—the average mean radius of all M1 ammunition made at Frankford Arsenal from 1926 through 1941 was 3.71 inches at 600 yards! The best year, 1935, produced an average of 3.51 inches. This bullet used a gilding metal jacket instead of cupro-nickel, which about eliminated fouling. Not needing (Continued on page 56)



Cal. .30's from WWI (left photo) include staked neck M1918 AP; Tracer M1918; flat nose "Spotlight"; Blank, VB grenade; lead bullet Gallery M1919. Right photo shows WWII ammo including Ball M1 and bullets M1 and M2; AP, M2 and bullets AP M1 and M2; M25 Tracer and bullet; Frangible; Dummy; slotted range dummy; crimp neck Blank M3.

HOT

CALIBERS



First find the goat! Light weight binoculars help author Goerg search slopes for target for his scope sighted Husqvarna .270.



**HEAVY AS A DEER, TOUGH AS
A GRIZZLY, USUALLY A FAR
TARGET, MOUNTAIN GOAT
REQUIRE SPECIAL EQUIPMENT**



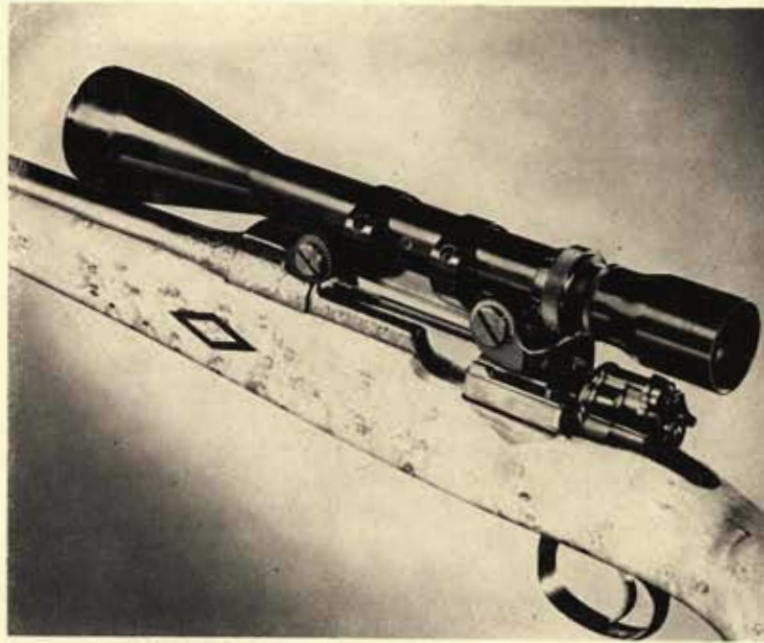
FOR HIGH CLIMBERS

HUNTING MOUNTAIN GOAT calls for shooting gear not commonly used by deer hunters. The pursuit of this mountain dweller calls for high velocity bullets and flat shooting rifles, since the majority of shots offered the goat hunter must be taken at long ranges. By comparison to the average deer shot taken at ninety yards or less, the average shooting range for goat may well average two hundred yards, or more.

The firearm for this hunting should be one of light weight, such as the new Crown Mauser Swedish Husqvarna HVA. Because of the extreme high and difficult climbing that mountain goat hunting requires, it is better to sacrifice rifle weight.

Rifle scopes are very nearly a necessity for this long range shooting. Most scopes are not very heavy and the weight they do add is more than offset by increased efficiency. It is far wiser to be concerned about the weather proofness of the scope than about its weight. All big game hunting must, occasionally, be done in wet weather. The best scopes should be the ones considered, and when you contemplate spending from \$500.00 to \$1500.00 on a big game hunt it is foolhardy to quibble over an increased cost of fifteen to thirty dollars which can easily spell the difference between a prize trophy and an utter failure. I lean, personally, towards the Leupold Mountaineer 4x or the Pioneer 4x. The Bausch and Lomb 2½x to 4x variable power is also one of my favorites. I live on the west side of the Cascade Mountains where it rains a great deal of the time, and these scopes have never let me down. Even when I was soaked to the skin these scopes worked perfectly. If you remember to keep your ocular lens (eye piece) free from moisture, you'll be ready to shoot even under the most adverse weather conditions.

Lately I have been eyeing the new Balvar 8 scope made by Bausch and Lomb Co. This is a variable job of from



Goat hunting at high altitudes demands scopes sealed against fog, makes vari-powers like B & L 2½-8X useful.

2½ to 8 power, and one that is bound to set a new trend in the field of scopes. The Balvar 8 is attractive because of its variable power and also because of the tapered crosshair reticle which allows full utilization of the values of that variable power.

Before going into caliber and bullets for this mountain tough boy, let's look into his characteristics. Unlike the high strung deer, the goat is phlegmatic and next in tough-



Highly efficient rifle for goats is this M70 .257 Improved Roberts with 4x Leupold Mountaineer scope & mount.



Mountain toughie, lord of the high peaks, the goat is a prized trophy for which hunters risk their necks.

Saving many miles of hard hiking, a 20x spotting scope locates goats and helps hunters plan approach for shot.



Loads author has used for goat include (l to r) standard .270 with 130 gr. Hornady bullet, wildcat .257 with 100 gr. Sierra, and .357 Magnum with Protxbore slug from revolver carried for defense. Sectioned bullets are (l to r) 117 gr. .257 Core-Lokt, 90 gr. .257 Ackley, 115 gr. Nosler.

ness to a grizzly bear. The white mountain goat is related to the serow of Asia and they resemble each other except that the serow is grizzled black, or grayish black.

The chamois of southern Europe and western Asia is also a relative of our mountain goat but is somewhat smaller. It varies in color with the season, from brownish winter coat to a gray in the spring, and then a reddish coat for summer. Their weight varies from 65 pounds to 120 pounds compared to the white mountain goat of 100 to 300 pounds. Continuous heavy hunting has caused the chamois to become very rare.

People interested in mountain goat inevitably ask if they smell and taste like a domestic goat. I have been on several kills and can truthfully say that, of all wild animals of my experience, the mountain goat has less odor than the others. The flesh is not gamey or wild, but very pleasant in taste. It is my choice of the "venisons."

Being the size of the average whitetail deer, nearly as tough as the grizzly, and shot at rather long (*Continued on page 46*)



Revolvers for Fun and Fur

DOUBLE ACTION SHOOTING IS EASIER THAN YOU THINK.
TRY IT FOR PLINKING FUN AND ON "CAMP MEAT" TARGETS

Ten fast shots, double action, score ten hits (nine lethal) on man silhouette.



By FRANK de HAAS

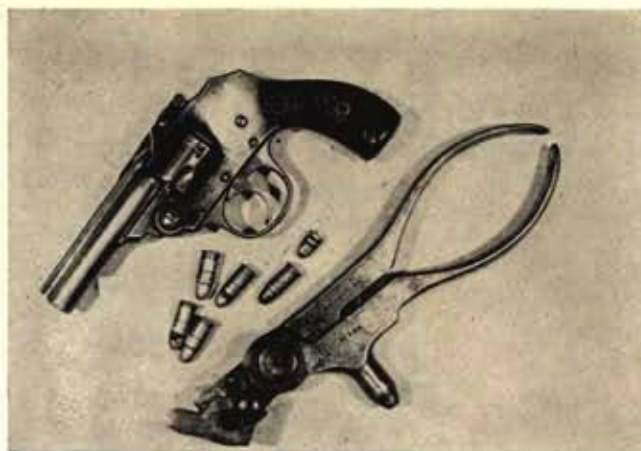
FOR PLINKING AFIELD, the way to shoot a revolver is double action, and fast. Solid single action shooting, with breathing, trigger squeeze, and the sweat beading on the marksman's brow, is all right for the target range, but to respond to the alertness of the out of doors, to use a revolver for most efficiency in terms of a fleeting bunny for the camp kettle or an instant shot at a mark, double action firing offers the most fun and challenge to tyro or expert.

The double action mechanism on a revolver, although little understood and

seldom used, was and is primarily made for fast shooting so that the cylinder can be emptied in a hurry. It is also an instinctive and natural way to shoot; just watch a boy with a cap pistol. But what is more important, the natural speed of double action shooting can be combined with accuracy, making this method of shooting the fastest, most accurate, and most natural way to shoot a double action revolver. That statement has no catch in it, either. I proved it to myself and others with much satisfaction. Given a good D. A. revolver that you can handle, a little



Rabbits are fast, sporting targets for double-action work, provide both meat and practice.



"Bureau drawer" guns like one above, though designed for double action only, have too-small grips and too-heavy pull for good double action shooting. Reloading tools cut cost of large lots of ammo used in practice.



Though used by certain western gunfighters, old Colt .45 revolver is a difficult gun to shoot double action.



For men who love the big ones, have big hands, strong grip, Model 1917 S & W .45 is an excellent selection.

training and practice, you can do the same.

Aside from hammerless models, all revolvers are most often fired by the single action method. Most shooters think that the revolver is under better control, can be held steadier, through the lighter trigger pull which is characteristic of single action shooting. This method of handling a revolver may, and often does result in very accurate work, but the shooter has to be in constant training and practice, and have cast iron or non-existent nerves. Everything has to be just so for accuracy. Stance, grip, shooting arm, sight alignment, trigger squeeze and let-off must be perfectly controlled. The modern target revolver, even

though it is a double action model, is really a whooped-up single action arm, with its cock-eyed hammer spur, short hammer fall, over sized grips, and a short, light trigger pull that has a "glass rod breaking" let-off. But it is not equipped with a nerve quieter. And above all, shooting single action is slow. Contrary to popular belief, the same shooter with far less training and practice, with a plain and much cheaper un-targetized revolver, shooting double action, can equal or even surpass his single action accuracy, with amazing speed and naturalness.

Two things interested me in this double action game. The first was a revolver I received in a trade. The second was reading double action

shooting articles by Bob Nichols and Ed McGivern. There is supposed to be some kind of theory behind this double action shooting method. To understand it, many factors are involved, but briefly, it leaves the shooter with much less to do and think about when shooting. Better control of the weapon is obtained in D. A. shooting. And, most important of all, it gives a trigger action that will beat the finching bugaboo by removing all means of the shooter knowing when the gun is going to fire, and that is the one most important factor in shooting a handgun. But I was more interested in the "how" than in the "why." It sounded challenging and interesting, and if others could do it, so could I.



The grip of the revolver, and the shooter's grip on it, are important factors in fast double action work. Grip must be firm, comfortable, slip-proof against recoil.

Latest in the double action line is the Smith & Wesson Sentinel, .22 caliber, $2\frac{3}{8}$ " barrel, spurless hammer. Grip fits well, holds firm for small-caliber practice.

That revolver I got hung with in a trade had the hammer spur ground off, and that was just fine. If I wanted to shoot it, it would have to be done double action. One afternoon I took that spurless D. A. revolver to the shop with me and when I had nothing better to do, I practiced double action snapping. I had absorbed some of Bob's and Ed's instructions and wanted to learn this double action technique quickly, so I must have snapped that S&W 500 or more times, till I couldn't trigger it another time. Then, giving my hand a couple of hours rest during supper time, I went straight to the range to trigger that gun with live ammo in it, just to see what I could do. Starting at 25 feet, I was a bit doubtful of keeping the bullets in the trap even at this short range.

I let loose five shots and to my surprise all were in the black. Another 30 shots were fired with the same results, before I began moving back a little at a time. At fifty feet I could keep about half the shots in the bull on a fifty foot slow fire target. It sure tickled me to find this double action shooting so easy and yet so accurate with only one afternoon's practice. And I had only scratched the surface of this fascinating shooting game.

Now for the "how" of it. The technique for successful fast and accurate double action shooting is very simple. The revolver is held firmly and sighted the same way as you would normally use a handgun of this type. Then the trigger is pulled until the gun is fired. But herein lies the basis of good D. A. shooting: when the trigger is being pulled it must be done in one even motion from start to finish, pulled continually and non-stop. That is all there is to it. The pull is long and you have no notion (Continued on page 40)



Targets prove potential accuracy of double action shooting at 40 feet, a shot a second. Combat Masterpiece .32, left; M & P .38 Special, right.

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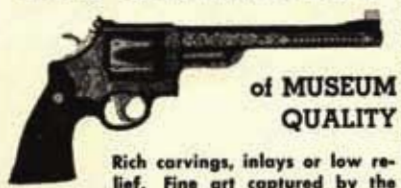
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**GUNS FOR DANGEROUS
GAME**

(Continued from Page 20)

close to an animal so as to hit it in a vital spot. In real African big game hunting, the shooting is at very short distances. At such short distances, initial speed and flat trajectory are of no importance.

On the other hand, in open country, the hunter often has 100 yard shots at antelopes or other thin-skinned game, and in these cases light or medium rifles with flat trajectory bullets and telescopic sights are advisable. Still, this kind of hunting is more a matter of marksmanship than of sport. The sport of hunting consists of tracking a dangerous animal to the nearest possible range. The shot itself is merely the final and by far not the most important act of the whole performance.

A wounded animal generally runs away, but sometimes it charges, especially when it is followed or being pursued while escaping. It may be that the companion of the animal, or others in the herd, may attack.

The charge of dangerous animals is always quick as lightning, and the hunter seldom has any chance to make more than one shot. This single shot must be the decisive one. Even if it does not kill the animal at once, it must bring it down. In my experience, this requires big bullets. The hunter who has to consider the possibility of facing the attack of dangerous animals should be provided with big caliber rifles, especially if he is not accompanied by another hunter who can help him at the moment of danger.

Reliable though the rifle is, in the hands of the most expert hunter it can hardly prove to be of any use at all if the ammunition is not adequate. For each rifle, the ammunition recommended by the gun manufacturer should be used. Before your big game hunting expedition it is worthwhile to study the efficiency of the ammunition by killing less dangerous game. These experiments are not only useful for observing the efficiency of the ammunition, but also help the hunter become accustomed to the handling of the gun itself, and, in the case of big caliber guns, to the corresponding recoil, which is rather strong.

Hunting dangerous animals, the life of the hunter often depends on the ammunition used. So it is important always to have fresh, dependable ammunition. Old cartridges, especially in tropical climates, can easily suffer alterations which might affect efficiency.

THE importation of ammunition is severely controlled in some parts of Africa. Due to these difficulties, ammunition retailers and even private hunters generally try to import large quantities of ammunition at a time, which they keep for several years. If this is done, it is advisable to keep the ammunition in a cool place, if possible in hermetically sealed metal boxes. Some cartridge makers supply their ammunition in soldered metal boxes. Cartridges taken on a hunting expedition but not used should be put aside and used only when there is no danger. Fresh ammunition must always be ready for dangerous game.

I have often been asked whether expanding bullets are right for dangerous game. My answer has been both yes and no. For soft game, animals without excessively thick or strong skin, soft point bullets are generally

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used. They expand after penetrating, tearing the interior organs. Such bullets are not good when hunting elephant, rhino, or hippo, because after hitting the strong, thick hide of the animal, the bullet expands on or very near the surface of the skin without touching any vital spot. Solid bullets should be used for such animals. These bullets go right into the body of the animal and break the bones they hit. Solid bullets sometimes perforate the animal from one side to the other without causing an immediate death-wound. This is one of the reasons why elephants are seldom killed with a single shot, especially if bullets with high initial speed have been used. Solid bullets with less initial speed generally remain in the body of the animal. As the whole kinetic energy of the bullet is spent in the body of the animal, such solid bullets have a greater destructive effect than those which merely pass through the animal.

Lately, some ammunition manufacturers have put on the market a new type of cartridge made with a tip of special metal, something between solid and soft-nose bullets. These bullets, also mushroom-type, have a greater penetrating power than the ordinary soft-nose bullets. It is not advisable to use even these bullets for pachyderms, but they are excellent for all kinds of soft game, including game of great weight. Among these bullets is the American "Silvertip."

A FRIEND told me that on a certain occasion with one Silvertip 220 grain bullet from the .300 Magnum, he managed to bring down a rhino with one shot in the neck. This was an extraordinary case and does not mean one should hunt rhinos with this kind of bullet. However, it shows at least that the bullet had enough penetrating power to pierce the thick skin of the rhino and destroy the main artery of the animal. I have used this kind of bullet often but only for soft-skinned game and never for animals weighing more than 900 pounds. The results were really good, far superior to those obtained with the conventional soft-nose bullets.

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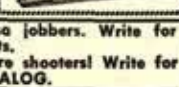
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pounds it is advisable to use big caliber rifles, for instance the .375 Magnum, either with soft-nose bullets, Silvertip, or other similar type. In my opinion, the advantage of Silvertip bullets over soft-nose bullets is that they not only strike the bone but also break it, while soft-nose bullets often flatten after striking the bone. Many African hunters persist in using solid bullets, even for soft game, so as not to spoil the precious skin with the big exit holes made by expanding bullets.

WHEN hunting dangerous soft-skinned game, such as leopard or lion, it is best to use expanding bullets. For hunting buffalo, which cannot be considered as belonging to the group of pachyderms, but because of the thick skin can hardly be counted amongst soft game, hunters use solid and expanding bullets alternately. This means that in a bolt action rifle holding four cartridges two solid and two soft-point bullets are loaded.

Black African buffalos may sometimes reach a weight of one ton. Even when you hit the forehead of the buffalo with solid bullets of medium or big caliber it is extremely difficult to perforate the strong forehead armour where the two horns grow together. Hitting the flank of the animal, expanding bullets of great power can perforate the skin and completely tear the interior organs, but if the bullets hit the hard bones in the head, they just flatten. This is why in buffalo hunting it is always recommended to use both solid and expanding bullets either loaded alternately in one gun as above or with two hunters loading solid and expanding respectively. In the case of two hunters, if the man using solid bullets, while his companion or guide is in the better position or if it is his "turn" to shoot when they meet a lion or leopard, the rifles can be exchanged so that the shot can be made with the one loaded with expanding bullets.

In short, respecting ammunition for dangerous game, it is advisable to use fresh ammunition, of a fully reliable origin, which has been duly tried out before the hunting expedition sets out. According to the game the hunter wants to kill, soft nose or "Silver-tip" bullets should be used, in a rifle of adequate power to turn a charge.

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REVOLVERS FOR FUN AND FUR

(Continued from page 35)

whatsoever when the gun is going to fire, so there is no chance to flinch or to jerk the trigger.

Start with a lot of dry firing practice. Then begin firing slowly, and work towards more accurate and faster shooting a little at a time. But always remember that trigger pull should be one continuous movement from start to finish, because the moment the trigger pull is interrupted by slowing down or other irregularities, the sights will wander 'way off the target. And odd as it may seem, it is no job at all to keep the sights on or near the bull while the trigger is being pulled back evenly, whether fast or slow. Actually the firm grip on the revolver and the trigger finger pressure helps steady the sights.

The trigger finger should be free and touch nothing but the trigger. Nothing should interfere with its movement in pulling the trigger back. Do not use a finger stop on the grip; do not use the tip of the thumb to warn the tip of the trigger finger when the gun is about to fire. This will defeat the accuracy advantage of double action shooting. After a lot of practice firing you will set up a cadence of fire at a rate that is most accurate and you will find that it is quite a speedy one. I can do best when I fire the five shots in the cylinder in about five seconds. Accuracy-wise, I find no advantage in shooting slower. As to the firing stance, anything goes, as long as it is natural and comfortable. These factors are particularly gratifying when you are shooting at rabbits, squirrels, or other live and quick-moving targets.

For double action shooting you need a double action revolver of course; but to get accuracy with double action speed just any old D. A. revolver won't do. By sheer luck, the revolver I started with was the old Smith & Wesson Military & Police model and it seems that this old model is one of the really top notch guns for fast and accurate double action work, as many others have found out. McGivern's fast and accurate double action work was done with a Smith & Wesson, and he had his reasons to choose

that revolver over all others. The newer S & W's with the short and fast hammer fall are not as good as the older ones for this kind of shooting, because the shortened hammer fall requires a stiffer main spring, making the long trigger pull too heavy for easy D. A. work. The older S & W's have by far the smoothest and easiest double action pull of any handgun, and there are no light or heavy spots in the pull. The pull can be made lighter, too, and still get proper ignition, if some of the tension is taken off the main spring by backing up the main spring tension screw a turn or two. The S & W M&P model will fit most hands and I certainly can do the best work with them. The heavier S & W models on the .45 frame are also good for double action shooting if you like the big calibers and are strong enough to hang onto them during a fast five shot string.

These old Smith & Wessons should have the grip improved with a Mer-shon grip adaptor, or better still, a new grip installed like the Herretts field model, to provide a secure hold. The grip should not be too large. You should be able to wrap your fingers around it for a very secure grip, and it should have a thumb rest. A trigger shoe may be of some value, for the triggering finger which has a lot of work to do if many shots are to be fired. And since the sights are to be used, they must be the most accurate and easily seen sights you can find. That, of course, means the usual clearly defined target sights, although the fixed sights will work all right. Whatever sights are the most quickly seen and most accurately aligned should be used. I find the 1/10 inch target sights are best for me. The barrel length is of no importance in double action shooting, but the short barrels are more becoming to such a gun, and the sights set close together on a short barreled revolver will line up better.

That old gun of mine was such a pleasure to shoot that I decided to make it into a more truly double action model. The hammer spur was already cut off and if it hadn't been I would have cut it off myself. I added an open trigger guard by cutting out the front part of the guard ahead of the trigger tip.

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The barrel was not in perfect shape, so a new one was installed, 3½ inches long. A long low ramp sight was fitted to it, with the blade 1/10 inch wide and sloped for quick draw. The rear sight is silvered, soldered to the frame. It has a flat top with a square notch and is very rugged. The original square grip was rounded off and a hand-fitting walnut grip put on. It certainly is a small handful of dynamite, yet suitable for target accuracy with practice. Some folks refer to such a handgun as a "bellygun," but I'd rather call it a "personal" gun. I use it solely for a fun gun, punching holes in paper targets and busting bottles.

In these double action shooting experiences, I tried several other revolvers besides the old S & W. Of the several Colts I tried, one was a Detective Special .38, and with it I was able to do quite accurate shooting but couldn't seem to get the speed I got from my first love. There was a slight jump in the double action pull of my Colt that the S & W's did not have. I also shot my S & W K-32 Masterpiece, and it would not give me the double action results of the older Smith, due to the action (hammer fall) being shorter and stiffer; but with more practice and more conditioning of my triggering muscles I think it would work ok. I also tried several of the true hammerless revolvers and liked two of S & W's .38 Specials, the Bodyguard and the Centennial. The latter is like the old squeeze-grip that Smith used to make. Both are very smooth double action revolvers but lack the proper sights and grip for the best accurate shooting. The new Hi-Standard Sentinel with snub barrel and chopped hammer is a fast double action revolver which I like better and better as I become more familiar with it.

For the beginner in this double action shooting game, the .22 caliber revolver would be the best choice, and the Hi-Standard Sentinel with the shortest barrel makes an economical practice gun. It has a well shaped grip, and good sights for accurate shooting, while the absence of a hammer spur makes you train with it double action. Another fine .22 caliber revolver is the old S & W K-22. In the larger calibers, war surplus Smith & Wesson revolvers, Military & Police models in war dress and chambered for the .38 S&W cartridge, are being sold now for less than \$25.00, and a better D. A. revolver can't be found. These may be shot as is, or remodeled to suit your taste.

I don't urge anyone to cut off the hammer spur, but if it is cut off, then double action shooting is going to be learned much quicker. Grinding the spur off is an easy remodeling job. Some gunsmiths serrate the top of the hammer so that if the single action operation is wanted, pressing the trigger finger can lift the hammer and the thumb on the serrations can pull it to full cock.

Double action shooting is going to be lots of fun. Starting with a .22, like the Sentinel, if you stick with it, sooner or later you will wind up with a .38 caliber. Then you'll have an excuse to start rolling your own ammo, because a lot of lead will be poured down that .38 barrel. For my own shooting, I load every round, at a cost of about what I'd be spending if I shot .22s. My favorite load for double action shooting is 2.5 grains Bullseye powder behind Lyman's little 110 grain wadcutter bullet. This is a very light target load, ideally suited to my light revolver. However, double action shooting need not be limited to light loads. With the correct double action trigger pull you are not aware of the instant the gun is going to fire, and no finching will result, even with the hottest cartridges.

Double action revolvers have been made for a very long time and there have been quite a few outstanding double action shooters, of which Ed McGivern is the master. One wonders why so little D. A. shooting is done today. I have introduced several handgun target shooters to this D. A. shooting game, always with the same results—they were simply amazed. I'd hand them my little D. A. Smith, with these simple instructions, "Pull the trigger back with one motion, don't stop it for anything." As they fired, they expected every shot to go clean in the white, and they couldn't believe their eyes when they saw the five shots clustered in the bull. Try it, and you'll be surprised. And you'll agree that it's a natural and easy way to shoot—fast, accurately, for fun and for fur.

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GO LIGHT AND HUNT HAPPY

(Continued from page 23)

in each side pocket of my coat. These can be of the chemical type to which you need add only a little water, or of the smouldering-wick type resembling a cigarette lighter. These little gadgets cost very little, weigh practically nothing, are excellent insurance against that stiffening of the fingers which may cost you the buck you came for.

What you wear in the way of a hunting coat depends, of course, on the weather and your personal sensitivity to cold. Also on how you hunt. Obviously, the man who sits for hours at a time watching a trail or ridge-saddle will need more protection than the hunter who keeps moving. Luckily, the trail-watcher can afford heavier garments because weight is less of a problem to him than to a walker. In many situations, a light wind-breaker jacket (of leather or one of the tight, almost weightless modern fabrics) worn over several layers of light wool (underwear and shirts) can be as effective as a heavy coat while saving many ounces.

ONE thing I look for in a coat is plenty of pockets. I want a number of small bits of equipment on my person, and it's nice to have these easily available without having to dig through one or two big but over-stuffed pockets. A place for everything and everything in its place can save time, temper, and even serious trouble for any hunter.

Don't depend on a red coat, however red or however loudly plaided, to insure you against the goof who shoots at anything he sees moving. Even the brightest of scarlet cloth turns brown and blends into the landscape at surprisingly short distances. Recent extensive tests show that bright yellow is the best color for safety under varying hunting conditions—five times better, in fact, than any red. In my experience, in recent years mostly in sunny country, a fabric worth wearing for safety is the "fire cloth" material which reflects light in the same way that spot reflectors do on a car or along

a highway. I have a small, weightless slip-over of this material, not much bigger than the "halters" women wear as the upper half of "play suits" (except that mine is worn in the reversed position, with the wider part across my back), which I wear outside everything else. Color doesn't seem to make much difference in the visibility of this material; so long as sunlight hits it. Red is no better than any other; it is the light-reflecting quality that does the business.

But there's another gadget that I depend on for safety, in addition to the "halter"—and that's a whistle. It needn't even be a gadget if you have a built-in whistle that is shrill enough, far-reaching enough for the purpose. I'm not so equipped, so I carry a small chrome-plated police-type whistle on a chain which hooks to a shirt button, letting the whistle drop into a pocket. I hunt carefully, with both eyes open; figure I'm pretty likely to see another hunter before he sees or hears me. When this happens, I blow a short sharp blast on my whistle. It gets attention; and nobody has yet mistaken it for a sound to shoot at. My partners and I use these whistles also for keeping track of each other when hunting at spaced intervals through thick country. The whistle blasts do not spook game; I have tested it many times on game within vision. They hear the sound all right, but don't seem to associate it with danger.

Safety in wooded or rough country is more than just safety from trigger-happy gunners, however. The novice in the woods or mountains can be his own worst enemy.

Observe all the rules of gun safety. Carry the gun with the action cracked; that is, with the action just visibly opened. Safeties are good but can be awkward for gloved fingers. I've been laughed at for it, but I like the cracked action better. There's no time loss; you close the action that last half-inch as you bring the gun to aim. Rain, or

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bad snow conditions do force me some times to close the action and depend on the safety, but I'm never entirely happy about it.

Make it an inflexible rule that all guns must be empty and open in car or camp. Or empty and cased. There's never any excuse for a gun "accident" in camp. In fact, there's almost never an excuse for any gun accident anywhere. Gun accidents don't happen; they're caused. And they are caused by human error, human foolishness, or human stupidity.

Getting lost is the bugbear of the novice hunter—and it needn't be. Every hunter, novice or otherwise, should carry a compass in any wild country with which he is not intimately familiar; and he should use it before he gets lost as well as after. Know which direction you traveled away from camp and you will know which direction will get you back to camp.

CARRY waterproof matches and some sort of quickly flammable "tinder" to insure you a fire. A candle stub will do; or there are many varieties of "fire starters" on the market—small, hot-burning cakes made for starting fires in the fireplace at home but equally handy in the woods.

My own "get lost" kit starts with a cylindrical box of hard plastic about the size of an 8 gauge shotgun shell, with a transit-type (look-through) compass on one end and room for about a dozen kitchen-style wooden matches inside the cylinder. In the same pocket I carry at least one, usually two or three, "starters." These are small cakes not more than an inch square by half an inch thick, but they will catch instantly, burn long enough and hot enough to start any but the wettest wood. And you can always get at least a little reasonably dry wood, enough to get a blaze started, by digging into down logs or standing deadwood.

Given a gun, a compass, means for a fire, a knife, and a can of C-rations or other compact ready-to-eat food (candy bars are fine, though somewhat perishable) to give you some nourishment and a little body heat during that first night of lostness, and you are safe enough, can even be quite comfortable—if you don't panic.

Your knife is an essential piece of equipment, so let it be a good one. You don't need a 16-inch Bowie, but you do need good steel that will take and hold an edge, in a blade heavy enough to stand being pounded through a deer's brisket or for cutting light firewood in an emergency. My own pet knife has a 5½ inch blade, ⅜ of an inch thick at the back where blade joins haft, with steel running all the way through the heavy handle which is formed of leather "washers" with a bird-head of the same steel at the end of the grip. There have been times, in butchering, when I've wished for something heavier; but there have been many more times, walking or climbing, when I've wished that all of my equipment was lighter!

Don't carry a sheathknife on the front of your belt. It may look very dashing there, but it's a sure sign that you're a tenderfoot—and it's dangerous. A fall, or even an intentional squat-down in taking cover, can drive the blade down through the sheath into the femoral artery that lies just under the soft flesh of the thigh. Puncture that and, brother, you're in trouble; real trouble. Carry the knife well back on your belt, back of the point of your hip so it can't slip forward.

A pair of binoculars is a "must" for the serious hunter, particularly if he is hunting in "big" country where being able to see across a canyon can save walking miles around it, or in heavy woods where the magnification and light-gathering power of good glasses pick out game you'd never see with the naked eye. Selection of the right binoculars for your specific needs is important. Talk it over with someone who really knows the subject, or read the published advice available.

Somewhere in an out-of-the-way pocket I carry a tiny, thick-walled vial of a strong antiseptic for cuts and scratches, together with a few bandaids for small hurts or blisters. Another pocket holds ten feet or so of whang leather or hard-twist quarter-inch (or heavier) cord, or both. This comes in handy when hanging up or packing game and for many other uses. I've even used it to make temporary mends of broken gun-

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I have a much-prized telescoping set of small screwdrivers that fits very nicely into the pen-pocket found in many shirts and jackets, and these have saved the day many a time in setting sights, tightening loose gun screws, or jacking stuck shells out of jammed actions. I carry a small but not inexpensive jack-knife, too, simply because the small well-sharpened blades are handier for trimming broken nails, extracting splinters, and such-like chores than the sheath can be.

Then, just to make a liar out of my "hunt light" motto, I usually strap a handgun on my hip, just for the hell of it. This may be just because I'm a handgun man, or it may be because there's always that one chance in a million that you might need to stop something from coming at you when your rifle was out of reach, a la Elmer Keith and others; but the gun feels good there even when I'm swearing about the weight of other lighter items. Anyway, I wear it. A man is entitled to at least one inconsistency, and this is mine.

Camp gear could and should be another story, but here's a word or two about it. If you are packing on foot, your kit needs to be pared to the quick—not just to what you can carry but to what you can carry a long time, in rough country, with reasonable comfort. If you are a novice, take my advice and don't tackle pack-on-the-back trips until you have gained enough experience not to need advice on what to carry. There is plenty of good big game country reachable by car or jeep, or certainly with pack animals. Try some of that first.

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trips, I've outgrown the Spartan pride in rub-two-sticks-together-for-fire know-how in favor of easy methods. And any sporting goods store today can provide gadgets to make things easy for you. I throw a good sleeping bag in my car, plus an air mattress. I want a campfire, but I like my Coleman stove better for cooking, and a good compressed-air-and-gas or comparable electric camp lantern makes collecting firewood a lot easier (and safer; less chance of picking up snakes by mistake!). I can cook almost anything in an iron skillet if I have to, but a pot or two, including a good coffee pot, saves time and ingenuity. I want an ax in any camp, and I want a good one, big enough to fell real wood for the fire, not just a "camp ax." And if I'm going to stay in one place longer than a night, I like a tent—or did before I got the station wagon; now I sleep in that and like it. Even so, I still take a tent more often than not, if there are several in the party. Poker at night is nicer in a tent than in the windy out-of-doors—or any place else, for that matter.

I take along an extra rifle, just in case the one I meant to use should get broken in a fall or otherwise put out of business. I usually stick in a shotgun, too—for pot meat, small animals or such fowl as may be in season. And there's always a .22 rifle or pistol, usually both, somewhere in the wagon. They kill their share of pot meat too; and they provide a lot of camp fun, just plinking at targets. I know some dedicated hunters who will say, "Yeah! And spook all the game out of the country!" Maybe. But I sort of doubt that the blasting roar of a .22 pistol, heard at any likely distance, spooks a deer very badly. I seldom have to go home "skunked" for sight of game, even on a day following an evening of plinking.

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HOT CALIBERS FOR HIGH CLIMBERS

(Continued from page 32)

ranges, the goat offers a problem not encountered by the big game hunters of the low country. The low country hunters, particularly hunters of African Game, use rifles of the "punkin slinger" class: .45-70, .375 H and H Magnum, or bigger. For goat, nothing over .30 caliber is recommended. Even the .300 H and H Magnum would not be one of my choosing. Of course, goat can be killed with any gun, given the right opportunity. Only last fall I shot a mountain goat with a Colt Python .357 Magnum revolver with a solid lead bullet that I had hollow-pointed for better expansion. But there are reasons against big bore rifles for goat.

THE primary reasons are—heavy recoil, high trajectory, and lack of bullet speed. With these handicaps it is impossible for the average hunter to shoot at goat ranges with the accuracy that is required and desired. These rifles are, also, too heavy to carry to great heights. My choice would be a selection from the 7x61 Sharpe and Hart down to and including the 6mm jobs such as the .243 and the .244.

In the majority of cases this cliff dweller is much harder to kill than deer of the same weight. But there are exceptions, as in the experience I had in shooting the goat with the revolver. I had crept to within 60 yards of this goat as he was sunning himself on a rock shelf. As I raised to shoot he turned to look at me. The shot slanted in from under his chin to the spinal cord where it chipped the bone, and then on into the shoulder. The animal fell to its side, then a moment later plunged from the shelf to tumble 400 feet farther down the mountain.

By contrast, Bill Bond, shooting a .270, shot his big billy at less than 100 yards. His first shot broke his back and it rolled 30 feet downhill to some windfalls. Even after that, the animal attempted to rise, was full of fight. It took two more shots to put him down.

Col. Townsend Whelen, the dean of riflemen and hunters, in his book "Wilderness Hunting and Wildcraft," published thirty years ago, takes issue with the small bore addicts of that day who recommended .25 caliber and smaller rifles for goat hunting. His apparent objection to the use of these high velocity cartridges was that the bullets used would not penetrate deeply enough before opening up. But today, with our choice of bullet construction, we can speed some of these up to 4000 f.p.s. before they expand.

Fellows like Wallace Taber take a different slant. He tells of a road crew foreman in central Tanganyika, Africa, who had killed everything up to and including Cape Buffalo with a .22 Hornet. Wally, himself, killed a buffalo with a .257 Weatherby magnum with one shot, in self-defense. Jim Bond, well known hunter of the Yukon territory, had no trouble killing barren land caribou with a .228 Ackley, if he could place his shot. Within the last few years, Townsend Whelen made another trip into the big game country of Canada. Here he questioned guides and trappers concerning the firearms carried for big game, including mountain goat. Many, he found, used .218 Bee, .222 Remington and .22 Hornet for everything. Times do change. But, quoting from Town-

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send Whelen's book again: "It is only the shots that strike well into vital areas of big game that count." This is as true today as it was then.


There is a decided difference in reaction of the goat, compared to the deer, when hit. I've seen big buck deer carry a well placed shot with powerful courage, but giving plain evidence of being hard hit. A goat with the same shot would never let you know he was hard hit until death hit him and brought him tumbling from his heights.

WHEN hunting this high country it is always possible to come upon a grizzly bear either by accident or by intent. Here, as in all dangerous game shooting, a hunter should be more concerned in breaking the animal down with a bone-breaking hit instead of a rib cage shot that would be in order if shooting for meat. With high velocity, flat shooting goat-type cartridges, it is very important for the hunter to pay particular attention to the type of bullet he is to use in the high country.

In Europe, where the chamois was hunted so extensively, one of the popular game bullets was the German Strong Jacket. This was a bullet that had a jacket with a collar that nearly partitioned the bullet into two separate pieces. The soft point jacketed bullet would expand back to half of its length where the semi-partition of the mid-section prevented farther expansion. Our American version of this bullet is the Nosler bullet, made in Ashland, Oregon. A similar type is the Ackley bullet, made for a time, that was a drilled out piece of copper rod with a swaged in piece of lead. The base half was solid copper. Care had to be taken with these latter bullets when loading maximum loads not to put in the maximum

recommended powder charge that was used with standard soft points. The solid copper section of the bullet would offer more resistance and consequently increase the pressure.

Loaded with these partition-jacketed bullets, the high velocity rifle becomes a real bone crusher, and the business of breaking down potential dangerous game is no longer a problem. At times it is extremely important also to break down the mountain goat. Say that you are approaching a cliff, face on, or from a creek bed, or on a cliff from the opposite side of the ravine. Looking up from the creek bed your goat will remain in sight but for a short time. By breaking his shoulder there is a small chance of his climbing out of sight and you can then finish him off with a well placed lung shot. The approach from the opposite side of the cliff offers a similar problem, but here you may allow him to climb to a more accessible place for your own approach before you stop him.

Goat have a habit of looking down about 90 per cent of the time, for approaching danger. Danger from above is rare, unless it is from a rock slide. With this in mind you should attempt to approach from above. This will present a tough climbing proposition but will, many times, offer a close shot. As you are approaching the basking brute with the utmost caution, you notice your jaw is aching and your pulse has increased. Your four hour stalk is about to pay dividends and you have a legitimate excuse for the high tension. You cautiously look over the last rock ledge—just in time to see your trophy rise and bounce from sight in one motion. That's the way it is in goat hunting, and there is only one procedure to follow. Turn to your partner and say, "Did you see those short horns? Not worth shooting. Let's go where we saw the big one." 



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CHOOSING THE BEST DEER RIFLE

(Continued from page 17)

hunting, the selection of the proper caliber is all important. I personally would take nothing less than a .270 or the .30-06. I would consider the .300 Magnum as a very wise choice providing the shooter can handle that cartridge. The latter cartridge has been widely accepted in Pennsylvania in those sections where long range shooting is common.

Although the .257 Roberts, .243 Winchester, and .244 Remington are good long range varmint cartridges, I feel they are a bit light in weight to be efficient in gusty winter winds. They are, however, admirable cartridges for the woods trail-watcher where the range is considerably shortened. This type of hunter can easily use a rifle chambered for almost any deer cartridge on the market today. Of the deer I have killed by trail watching, I don't recall any that were over forty yards away. I doubt that over 20 percent of the deer killed in Pennsylvania are shot at ranges over sixty yards.

The woods trail-watcher is primarily concerned with getting in one, well-placed shot. The game is usually moving very slowly and unconcerned, and one shot is all that is necessary. The hunter has plenty of time to pick an opening through the brush, so the smaller caliber jobs with exceptionally good accuracy can be used to good advantage, and their lesser report doesn't tend to drive game over into the next county.

Here again, I would definitely choose a bolt action rifle capable of fine accuracy. As we have pointed out, weight and speed of fire are inconsequential. The well-placed bullet is the important item. A featherweight rifle will prove plenty efficient and will not be too heavy to lug into the woods or too bulky to sling on your back while dragging the buck out.

Now the "still-hunter" is a special breed of man, maybe a half mixture of the "drive-hunter" and the "trail-watcher." His requirements must incorporate some features of the rifles suitable for both of the other types.

The rifle for the still-hunter should be about medium weight, say seven to eight-and-a-half pounds, with at least a twenty-two inch barrel. The basis for this reasoning is that although the still-hunter is walking, he isn't pushing himself like the drive-hunter. He moves slowly, stops frequently to look and listen, can tote a heavier arm without undue fatigue. Also, the still-hunter is very apt to encounter either a short range brush shot or a long range, cross-canyon target. Speed of fire is not as essential in this type of hunting, as most of the game encountered (if the hunter is skillful) will be lying down, standing motionless, or moving slowly. The



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still-hunter must rely on sharp eyesight to spot the game before it becomes aware of the hunter. Occasionally, however, the game will be jumped from its bed in a laurel thicket or windfall, at which time speed of fire is at a premium, both for the initial shot and possible follow-up shots. I particularly favor a lever action hammer gun for still-hunting. The hammer can be thumbed back as the rifle is brought to the shoulder, permitting the rifle to be carried with the finger inside the trigger guard, the thumb around the grip, and the remaining three fingers inside the lever loop. The button type safety or the little side-catch safety as used on the Savage Model 99 requires that either the trigger finger or thumb or both remain out of position while the rifle is being carried.

When choosing a cartridge for the still-hunter's rifle, one must consider whether the majority of the shooting is to be done in the brush at short ranges, or a mixture of both short and long range shooting. Only the man familiar with the terrain can answer this question, and if there is any doubt, he should choose a caliber that packs a punch "out yonder" and at the same time carries plenty of bullet weight for the brush.

One cartridge, the .308 Winchester, is particularly adaptable for the above conditions. A second choice would be the .300 Savage. The .308 is available in the Model 88 or the Savage 99, both of which are superb arms for the still-hunter. In a hammer gun, the Winchester Model 71 .348 stands unchallenged, and its trajectory with a 150 grain bullet is only slightly greater than the .308 with a similar weight bullet.

The .358 Winchester and .35 Remington cartridges are both fine hulls for use in the brush. The former is available in the Winchester 88 and the Savage 99, while the latter is available in the Marlin Model 336.

Although a bolt action can be used to good advantage by the still-hunter, they are usually a bit awkward for carrying and slower for follow-up shots; but where the occasional long range shot is to be encountered, the more stable accuracy of the bolt gun pays off. I personally have two still-hunting rifles; a Winchester Model 1886 .45-70 for the brush, and a sawed-off Model 70 .375 Magnum which I carry whenever there is a possibility of long range shooting. Admittedly, the latter caliber is far more powerful than necessary for white-tail deer.

In summing up, when selecting a deer rifle, first consider your method of hunting. There is a right tool for every job; why ruin your hunting for years to come by buying a varmint rifle to use when driving in the brush? Or a short barreled brush gun for long range shooting? The "all-around" rifle is a myth. Analyze your hunting methods and choose your rifle accordingly.



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THE STORY OF THE CUTTS COMPENSATOR

(Continued from page 26)

Automatic Rifles. They were fitted with a flash hider, but they still kicked. The automatic rifle and the Tommy Gun were both sensational in firepower, but few men could control them accurately in full-automatic fire. Our "Comp" proved to be useful in offsetting this problem, and elements of design which we built into that Compensator remain the principal characteristics of the present shotgun Compensator. Meanwhile, we were working closely with the Colt company and the Auto-Ordnance Corporation which made and sold the Thompson guns. Our Cutts Comp was not adopted for the BAR because military manufacture of the gun had virtually ceased, but Colt's made a modified version for police and civilian protective use, called the "Monitor," and the Cutts Comp was standard on that short-barrel model of the Browning.

IN our first attempt to improve the Tommy Gun we tried the obvious: we simply attached heavy weights to the muzzle. This was far from adequate, but it did get us started on a study of the recoil characteristics of guns. By this time we had been bitten by the challenge and were determined to perfect the weapon. So, falling back on the principles of steam engineering as applied to turbines, we discovered that we could harness the power of propellant gases and thereby reduce the recoil, by attaching an expansion chamber and tube at the end of the barrel. We were fortunate in having the cooperation of Philip P. Quayle in our experiments. He was a very able physicist with the Peters Cartridge Co., in addition to being a gun

crank who believed anything less than the best in firearms was no good at all. He developed a method of photographing projectiles in flight. This allowed us to see the results of the changes we were making in the design of a compensating device. We also used a free ballistic pendulum to determine recoil reduction, rather than the springs customarily used to measure recoil.

The Compensator we developed for the Tommy Gun was field-tested under combat conditions in Nicaragua and found to be well worth all the trouble we had taken. In 1926, when the Marines were called upon to defend the U. S. mails from the depredations of American gangsters, they were issued Tommy Guns with our compensators.

Using the same principles of controlling gas flow, my father and I began designing a Compensator for shotguns. Before we had produced a final model, my father was assigned to Haiti. His success in bringing down birds in that tropical aviary convinced us we had something good. After several more or less final modifications in the design of the Compensator, I traveled to New England to find a Yankee manufacturer who might be interested in producing it on a royalty basis.

This trip gave me a profound sympathy for the problems and frustrations which seem to plague the pioneer in gun designing. Although I was thoroughly convinced that our Compensator added considerably to shotgun efficiency, I was unable to transmit this optimism to any of the big manufacturers.

(Continued on page 52)

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Finally, an executive at a major gun manufacturing company "allowed" that I had something new and, perhaps, something marketable. Since there was no place for such a device in his company, he suggested that I take the time to run up to the farming community of Middlefield, some 20 miles north of New Haven, Conn., and talk to the management of a small concern which at the time was engaged in the manufacture of such devices as gun sights and reloading tools—the Lyman Gun Sight Corp. The Lyman family which ran the business, and does to the present time, liked our Compensator and signed a contract to manufacture and sell it.

But this, I soon discovered, was only a preliminary step. The public had to be sold on the advantages of the "Cutts Comp." Lyman's sales representatives returned from their territories with gloomy accounts of dealer resistance. Each time, the Lyman's gave them a pep talk and sent them out to try again. Despite their efforts and some advertising in the trade press, sales were slow. In 1929, sales of the Cutts Compensator amounted to approximately 400 units. At the same time a few of the devices were delivered to the Colt Company, for assembly on Model 1927 and 1928 Tommy Guns.

As I look back to those days, I cannot help but admire the tenacity of the Lyman's. They kept their selling organization plugging away, interesting shotgunners in less kick and controlled patterns. Meanwhile, we worked out some improvements in the product itself and dressed it up in appealing packages. By 1939, sales had multiplied 1,500 times over the first year. Then came the most encouraging news we could have had. Several other companies had begun production of similar products of their own design. Now we had competition, and we knew for the first time that we had broken the barrier of dealer resistance.

Meanwhile, research went on. It was noticed that the shot column passing through the barrel of the ordinary shotgun formed a compact mass of pellets, completely filling the bore. This occurred because the column was being pushed from behind by the propellant gases and, at the same time, was being retarded by air resistance in front. When the column entered the choke constriction in the muzzle of the gun, the pellets were forced together, distorting them. This action caused many pellets to stick to each other, producing an uneven distribution in the pattern as if 4's and 8's were mixed up together. This is known as "shot balling." In addition, the rear powder wads accelerated because of their light weight and the direct action of the gas, and "pancaked" the rear

portion of the shot column after it had left the muzzle of the gun. This upset the column after it had once been rectified by the choke to the pattern desired.

It was also noted that the top wads used at the head of the column would drift rearward through the column after it had been rectified by the choke, because of the air resistance in front of these wads. We designed the "Comp" to correct these troubles.

When the Cutts Compensator is applied to a shotgun, the barrel is shortened to the desired overall length. This loss of barrel compensates almost entirely for the weight of the Compensator itself. Moreover, since the Compensator action vents the gas from behind the powder wad, keeping it from accelerating, there is less shot pellet damage and the remaining velocity of the shot is higher because round pellets fly true.

When the Compensator expansion chamber is mounted on the barrel, the old choke is removed. Upon firing, the shot column proceeds through the bore unimpeded. Entering the expansion chamber, the column elongates slightly, thus causing a reduction in its diameter. The shot column then proceeds through the expansion chamber and enters one of the changeable choke tubes, for the shot pattern desired. There is no squeezing of the shot column, such as occurs in the integral shotgun choke. Since the shot column is nestled in the choke rather than jamming its way through, the friction heat which welds and causes shot balling and pellet distortion, is greatly reduced.

As the shot column proceeds through the expansion chamber, the propellant gases are exhausted through the top and bottom ports. It is this exhaust action of the gases which materially reduces the recoil. The gases passing through the ports produces a gas turbulence which acts on the powder wad to distort it. Consequently, when the powder wad reaches the detachable choke member, it is slightly larger than the diameter of the choke. Since most of the propellant gases have been dissipated through the ports, the drive power behind the wad has been reduced, and it no longer catches up to the shot column to pancake it after it has been rectified by the choke. At the same time, the light, top shot wads are blown through the choke tube with increased velocity and, being light, they drift harmlessly aside instead of back through the shot column.

The propellant gases are purposely exhausted through top and bottom ports of the expansion chamber so as to cause minimum interference with shooters on the right or left, as would occur if the ports were

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placed all around the expansion chamber.

This "nestling" effect of the shot column in the choke tube, plus the reduction in diameter of the column, allows the use of two choke tubes which are tighter than the standard full choke. These are long range tubes, to be used with heavy loads on ducks and geese and are only available with the Cutts Compensator.

No one choke in any gun is designed to handle every weight of load. With the Compensator, an automatic choke effect can be produced simply by the method of loading. In an automatic or pump gun, first load a shotshell of 5's, followed by a load of 6's and then a load of 7½ H. V.'s with a full choke, to be the first shot. The 7½'s will give a good full choke pattern. Then the 6's, followed by the 5's, will reach out farther and give increased center densities of patterns for the longer ranges. There is a "rule of thumb" for the satisfactory use of Compensator choke tubes: more open tubes and lighter loads at the shorter ranges, and closer tubes with heavier loads as the range and size of game increases.

The spreader tube which is so very popular with skeet shooters, has an important field application as well. This tube is very useful for gunners who are quick on the rise, and also for shooting in woods or heavy brush. When a close quick shot is required, the game will either be missed or badly mangled if the choke is too tight.

In field shooting, it is neither necessary nor desirable to change the choke from shot to shot. Changes are only necessary to meet shooting conditions. For instance, in open country, a modified or .755" choke ordinarily

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fills the bill for a day's shooting. One would only change to the spreader when passing through woods and brush. This also holds true for duck shooting. For ducks coming in, as over decoys, a full choke may suit nicely. But if it is a windy day and they are passing high, chokes closer than full choke, with heavier loads, are indicated.

A variable choke has recently been developed for the Cutts Compensator. The outer collet closure, or movable screw member which adjusts the degree of choke, has an interior curved surface. This curved surface maintains contact with rings around the inner slotted sleeve. The tines of the slotted tube are compressed to meet various choke requirements. One important feature of this design, by means of the contact of the rings, is that it supports the inner tines throughout their length. All in all, the adjustable choke fulfills many requirements and gives the Compensator shooter all the effects of other adjustable chokes on the market, plus a reduction in recoil and improved patterns.

So much for the Compensator. I have mentioned 7½ H. V.'s for ducks, but here is another wrinkle which might prove useful. How many of us have chased a wounded duck on the water when he is diving? His head pops up and we blaze away. It reminds one of the Battle of Lake Erie with spume flying in all directions! Sometimes there are just not enough pellets in a heavy load to hit a small duck head at a distance of thirty yards, or more. Why not take a couple of loads of number 9's with you the next time you go out? You may not wind up with a stewpot full of guinea fowl and Birds of Paradise, but you should get your limit in ducks with your "Cutts Comp."

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THE VERSATILE .30-06

(Continued from page 29)

the tin content in the powder any longer, they used a further improved IMR 1185, having tubular DNT-coated grains.

By 1938, the long-range machine gun tactics had changed so that extreme range was no longer needed or desired. Many rifle ranges had been closed for lack of space sufficient to cover the "danger zone" of the M1 load. Also, the heavy bullet as then loaded to about 2800 f/s velocity, was a little rough on the mechanism of the new M1 rifle. Plans were being made for expansion of small arms ammunition facilities. In consideration of these factors and because materials would be saved, we returned to the original flat-based bullet weighing around 150 grains, loaded for a muzzle velocity of about 2,700 f/s. We substituted a gilding metal bullet jacket as used in the M1 for the original cupro-nickel jacket. This change had solved most of the metal fouling problem formerly experienced.

When we got into war production in 1941 we changed this gilding metal jacket to a steel jacket clad with thin gilding metal. The potential accuracy of the 150-grain flat-base bullet is somewhat less than that of the M1 boat-tail type. During World War II and since, the average accuracy of production M2-type ammunition has varied between 5 and 5.5 inches with only an occasional lot down to 4 inches or less. For combat use, this accuracy is quite adequate.

Recently, when requirements for special match ammunition were received, it was necessary to return to the heavier boat-tail bullet in order to get superior results. Here a few words about accuracy may be in order. In past years, when special "National Match" or "Palma Match" ammunition was supplied, the best results were obtained by selecting (from routine production) those components which showed least variation. When an exceptionally fine lot of bullets was produced, this was laid aside and used for match car-

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tridges. This past year, 1956, there was no production lot of M1-type bullets to select from. Still, accuracy as good or better than the best formerly made was expected. Such a requirement could be met only by a new approach to the problem. Unfortunately, the difference between a good bullet and a superior one can seldom be detected by any means short of firing them. But manufacturing control methods have improved.

A "human engineering" factor which affects shooting results has to do with recoil. With excessive recoil there is always a tendency to flinch, especially if the shooter has become sore from considerable firing. Here conflicting requirements are involved. We want a heavy bullet to buck wind well and high velocity for the same reason. But the product of mass and velocity gives the measure of recoil, which has a practical limit for the shooter. There is a slight amount of maneuver room, even so. For with same resulting velocities, one powder may give faster action time than another and would apply recoil energy to the shooter's shoulder faster. This and other factors must be reconciled in developing a new load. A primer-powder combination must be selected to provide optimum compromise among velocity, pressure, rate of combustion, loading density.

Aside from the common ball cartridge, there have been many special-purpose loads provided for the .30-06. Ball cartridges made in 1906-09 did not have the case mouth crimped to the bullet. That became necessary later, when the round was used in machine guns. The first version of the guard cartridge had five (or six) light grooves around the center part of the case. In 1909 a new guard cartridge had a series of dents around the shoulder of the case. The original .30-06 blank used a paper bullet, which was made hollow. The powder then used in blanks was bulky, and the bullet was filled with powder in order to have enough for a good bang. The dummy first used had holes drilled in a grooved case, which was also tinned for identification. The high-pressure test car-

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tridge, introduced about 1912, was tinned. These had TEST or HP included in the headstamp. At first they used a bare lead bullet. A special blank for Gatling guns had the case extended to form a bullet shape. This was required in order to work properly in the Accles feed used on the Gatlings. Similar blanks had been used for the .50-70, .45-70, and .30 Krag Gatling guns.

A NEW blank was adopted in 1909. This was loaded with a new "EC" powder which was less bulky than the blank powder formerly used, so a dished cardboard wad could be used to seal the case at the neck. Other new cartridge types were tried in 1917 when we were engaged in World War I. An experimental dummy had only holes, omitting the flutes to expedite production. The 1917 series included incendiary, armor-piercing, and tracer bullets. In general, these were copied from then-current British types, re-designed to conform to our cartridge. The incendiary bullet was flat-nosed and had a white phosphorus filler which was ignited in the barrel. A tiny hole, soldered over by low-temperature alloy, was melted open by the hot gases. The AP had an exposed lead nose which gripped the metal plate on impact, preventing the bullet from glancing off. It had a hardened steel core. The tracer as made by some manufacturers was identified

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by a tiny cannellure near the tip of the bullet. In 1918 they adopted a new group of cartridges. The Germans had protested the use of the Model 1917 AP, claiming its exposed nose made it a "Dum-dum" bullet which was prohibited by existing treaties. The new AP, made to take its place, was identified by a light cannellure near the base of the bullet, otherwise it had the same external appearance as a ball round. A magnet would detect its steel core, of course. The 1918 tracer had a blackened case to distinguish it from other types, while a novelty, the "spot-light" bullet, was developed for target designation. Its bullet contained a small quantity of explosive, a percussion element, and a floating nose fuse, which armed in flight and fired on impact. A special grenade blank was made to use with the "VB" French rifle grenades. The wooden bullet armed the grenade on firing, when it passed through the grenade body. A gallery practice cartridge was made in 1919, using a 135-grain lead bullet, fired at reduced velocity in indoor ranges and, later, for guard duty.

MORE recent types of the .30-06 cartridge include the ball M1 load, with the boat tail M1 and flat base M2 bullets. Next is the black-tipped AP M2 with M1 and M2 AP bullets beside it. The M25 tracer had no tip cannellure. A frangible bullet was developed

(Continued on page 62)

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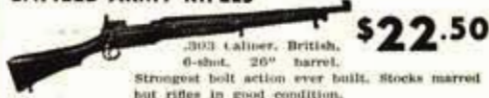
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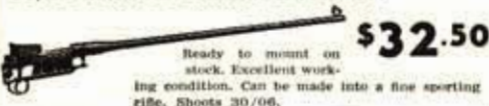
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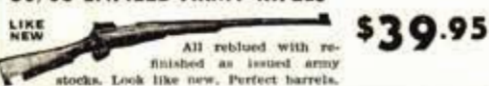
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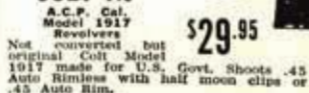
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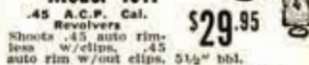
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BREEZEWAY CAMPER is breezy name of new all-aluminum trailer which contains: folding tent. New low price is especially attractive, \$795, available through customer agents FOB Sayville, N.Y., instead of \$1,095 for the company's previous model. Shipped ready to hook up to the rear of your car, new camper sleeps four in special slide-a-bed construction, weighs only 560 pounds. The "Breezeaway" brings the comforts of home to the great outdoors, makes overnight camping trips easily possible at minimum fuss for the busy sportsman. Further details can be obtained by dropping a card to Phillip-North, Inc., Box 105-G, Farmingdale, N.Y.



MOST POWERFUL RIFLES using .30-06 Brass is claim of custom rifle maker R. E. Gibbs, Dept. G10, Viola, Idaho, who has designed line of magnum-power cartridges using popular .30-06 cases. Lengthened case shoulder plus extensive tests using modern ballistic equipment allow Gibbs to develop best loads giving maximum velocities, energies, for particular rifle. For first-class workmanship and top energy in easily reloadable brass, fans of the .30-06 would do well to contact Gibbs.



NICKEL AUTOMATIC PISTOL of the famous Sport-King .22 High Standard model has just been introduced by the New Haven firm. Nickel-finished Sport King pistols can be seen at any good gun store. Some gun fans, because they have seen so many poorly finished top-break junk revolvers renickelled by the fast buck artists, tend to low-rate

nickel plating for a handgun. But latch onto one of these new High Standards with its crisp lines, true surfaces, brilliant polish, and you'll revise your ideas about nickel plating in a hurry—well done by the factory, it's beautiful. Corrosion-resistant nickel is very practical finish to a firearm, especially model like Sport King which will get hard field service as plinking and knockabout sportsman's handgun. Prices for new finish High Standards run about fifty bucks for short or long barrel, or \$58.95 for two-barrel set.



HVA PRESENTATION GRADE RIFLE by the famous Swedish gunmakers is now available at all authorized Tradewinds, Inc., dealers. The "presentation" rifle is the popular, well-finished HVA sporter with high comb, cheek piece, hand-checked walnut stock, and richly blued metal work. Intended for the "Christmas Gift" market, it is a gun any sportsman should look at with a view to "presenting" it to himself! The barrel is branded with the word "Presentation," and the action and guard plate are scroll engraved in a simple and attractive pattern. The appearance of the "Presentation" HVA rifle would lead one to think it should retail for more than the modest list of \$350. Calibers available in the Presentation P-3000 series are .270 and .30-06. Details, address of nearest HVA dealer, on writing Tradewinds, Inc., P. O. Box 1191, Tacoma, Washington.



NEW SHOTSHELL LOADER produced by Zephyr Development Co., Dept. G10, 18971 Santa Maria Ave., Castro Valley, California, is handsome, rugged tool having less bulk and more working space than tools twice its weight. Works on principle of an arbor press. Dies are chucked into an upright ram, rather than tedious process of screwing in and unscrewing needed with

WITH Guns

some other tools. Quickest die change, dies can be changed completely in five seconds. Dies are moved downward on shell held in stationary shell holder, which are sized to within .001" of factory specs. Automatically controlled wad seating pressure ranges from 20 to 90 pounds as desired. Tool complete with dies (specify gauge) retails for \$65.50.



CARTRIDGE BOXES of tough, bright red plastic made by Fitz, Box 49702, Los Angeles 49, Calif., are excellent for handloaders, or just to carry ammo in the field in a permanent container to hold your fired shells. Does not get wet, fall apart like cardboard: bright color aids visibility if you set the package down at camp, on range, Moniker "Amm-O-Safe" points out merit of packages, which come in three sizes for all calibers (bottom of .44-45 box also works as shell holding block for reloading .30-06, similar large rifle shells). Price, 99c, a whisker under one buck at sporting goods, hardware stores.



A **HOT POT** of coffee is always welcome at camp, but not always is it convenient or easy to get it boiling on the fire. Packaged heat company Blu-Burn-R Products, Inc., Dept. G-8, Monroe, Wisconsin, has solved the problem by developing a self-heating coffee pot, "Porta-Perk" coffee maker. Attached can of low pressure butane gas burns five to 12 hours, will brew from 150 to 200 cups of coffee in seven-cup sized pot. When fuel is exhausted, a fresh can of butane, coming into popular use now for many needs where portable fire is wanted, may be quickly installed. Price, complete with two cans of fuel, is \$14.95.



POCKET BLOWTORCH which gives up to 30 minutes of 3500° F. pinpoint flame for delicate soldering, brazing, silver soldering jobs, will prove a boon to gun hobbyists. Handy "Kidde Jet King" is no toy for kids, does professional work where delicate application of heat is needed, as in soldering front ramp sights, tinning mount screws, or repairing shotgun ribs that have bulged away because of incorrect bluing methods. Also useful for flowing brass onto front sights and making repairs with silver solder to fresh-cracked small parts. Especially valuable for work with antique guns where often a hammer is fractured from dry snapping but could be easily put back for display if source of hot heat was available. Developed by Kidde Mfg. Co., Dept. G10, Bloomfield, New Jersey, torch with one fuel cartridge sells for only \$1.95. Extra fuel cartridges, two for 49c. Torch kit with two cartridges, soldering tip and solder, only \$2.95.



IRON SIGHT on a scope-mount is a practical novelty, which Leupold & Stevens, Dept. G-8, Portland 13, Oregon, have done up well in their new Detacho-Mount. Streamlined, quick change levers on mount rings permit shooter to slide scope off instantly, which rear mount base carries an adjustable peep aperture built in for instant use. Levers can be adjusted to lock in 12 different positions to hold scope securely. Leupold Detache-Mounts for 1" or 26 mm scopes have low-mounting dovetail bases individually machined to fit properly on all popular sporting rifles. New mounts are especially adapted to use with Leupold scopes.

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A REAL BUY. Only \$32.50
 Strongest Bolt action, 6-shot repeater. Developed by the great British armory and manufactured by Winchester, Remington and Eddystone, V.G. to excel. A real buy. Only \$32.50. Available as the finest Deluxe Sporter with New zippered Gun Case with carrying sling only \$36.50. 30-06 Enfield Barreled-Actions, Complete—\$29.50 Ea.

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PRECISION SWISS SCHMIDT-RUBIN RIFLES
 For the first time ever offered, converted to Deluxe Sporter and to shoot the popular 30-30 W.C.F. Cartridge. 12-Shot, lightning-fast Repeater. 22" Bbl. Lightweight, accurate and dependable. Ammo available anywhere. N.R.A. Excellent. Only \$37.50 each. Also available in Military 7.5mm (.30 Cal.). Only \$14.50 (2 of these fine rifles \$25.00). This caliber converted to a Sporter, 22" Bbl. Only \$22.50.

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NEW IMPROVED MODEL—CHECK THESE FEATURES: 10 ga. Magnum 32" Solid Lump CHROME lined Toledo Steel barrels. Improved Anson & Deeley action with double purdey bolt, greener crossbolt with scott bite and side clips for extra strength. Lights scroll engraving. Hinged front trigger. Checkered, cheekpiece French Walnut stock with recoil pad. Beavertail forend with pushbutton release. Fine craftsmanship by Gorosabel of Eibar. Wt. 11 to 12 lbs.
 \$175.00 with positive extractors - \$225.00 with selective auto-ejectors
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 We also have the fine Ugarteburu 10 Ga. Magnums with BOHLER ANTI-NIT Steel barrels in stock, retail \$189.50.

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THE VERSATILE .30-06

(Continued from page 59)

for aerial gunners to use in firing practice against actual aircraft. This bullet broke up without penetrating the structure. A further change was made in the dummy, having grooves but no holes. A special "range dummy" looked just like a ball round except for having a groove near the base. It was used by coaches to check shooters for finching. At the grenade blank M3, there have been several variants. All are essentially the same, save for slight changes in closure and crimp. Other bullet types have been provided. They include incendiary, tear gas, special types of tracers, and composite types such as AP/T, AP/I, etc. Probably the world's most highly developed big-bore cartridge, the .30-06 has been used on everything from crows to elephants.

A cartridge collector could keep himself quite busy just trying to find all the various types of the .30-06 cartridge that have been made. If he added the various headstamp variations, he would probably never be able to find them all. Some, such as the British and French .30-06 made on contract during World War I, are very rare indeed.

One of the most recent developments in the .30-06 occurred in the field of match cartridges. During the first part of 1956, Frankford Arsenal produced some small lots of special .30-06 International Match ammunition for the Army team. This was loaded to about 2280 f/s velocity and gave phenomenally accurate results at 300 meters. A similar load was produced in the 7.62 NATO cartridge for the Olympic Matches. Both
 (Continued on page 64)

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 Opens to 33" - Closes to scope only 11" - Complete with case \$6.98 Postpaid
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PANCHO VILLA SPECIAL!!! FAMED ORIGINAL REMINGTON ROLLING BLOCKS!!!

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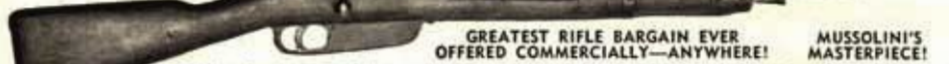
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BUY ONE OF EACH OF THE ABOVE RAREST REMINGTONS AND SAVE, SAVE, SAVE. YES, YE OLD HUNTER (HE'S ALL HEART) WILL MAKE A SPECIAL INCREDIBLE DISCOUNT IN COMPLETE SETS: ALL SIX ABOVE RIFLES FOR ONLY \$59.65 PLUS \$2.94 FOR A SET OF ONE EACH OF 43 AND 7MM ORIGINAL BAYONETS IF DESIRED. NEVER AGAIN WILL YOU HAVE THIS OPPORTUNITY AT SUCH A SAVING: POTENTIALLY A \$600 VALUE! ORDER TODAY AND COMPLETE YOUR REMINGTON COLLECTION IN A SINGLE BREATHTAKING STROKE!!!

(Special condition note on all above RAREST REMINGTONS: These rifles were found by Ze Old Hunter where they shouldn't have been, so it was necessary for him to take them as they were. All rifles are looking like rifles should look when they have been misused for upwards of 90 years, but their form can be clearly made out in the bright sunlight and they will provide years of enjoyable cleaning experience for even the most hardened gun crank. Ze Old Hunter's guarantee looks after you!)

CALIBER .30 (7.35 mm) MANNLICHER MOUNTAIN CARBINES Only \$12.95



GREATEST RIFLE BARGAIN EVER OFFERED COMMERCIALY—ANYWHERE! MUSSOLINI'S MASTERPIECE!

The rifle giveaway of the century which has overnight swept the nation as the first choice of all shooters, hunters, collectors, plinkers and all who love large bore precision rifles but until now, have never been able to afford one. Yes, unbelievable, but absolutely true! For only \$12.95 you receive an original Mannlicher system carbine, cal. 7.35 mm (true cal. .30)—makes .300", weighing only 7 1/2 lbs. in practically unfired condition ready for immediate use as that ideal all purpose sporter, plinker, target or practice rifle. No costly conversion problems, no extras, no delays, no packing charges, just 100% bargain, and ready to go now! !!! All milled parts. 2 1/2" Barrel. No bulky side lock magazine. No dull parkerized finish. No "Unserviceable" fears. Ammo? All you'll ever need of the choicest 128-grain ball type and Ye Old Hunter's giving away at only \$6.00 per 96 rounds in original 6 rd. clips taken from sealed original cases. All ammo beautiful full-mech type! Brass cases!

Special Shipment super sporting 7.35 MM Mannlicher Ammo:

Superb 128 gr. super expanding HP imported hunting cartridges, packed in original clips in 18-round boxes—only \$2.50 per 18-rounds or \$12.95 per 96-rounds. I.o.b. Alexandria, Va. (U.S.'s finest 7.35 MM sporting ammo buy). Bayonets? Gorgeous folding blade knife type for use with the rifle or as an ideal hunting knife for only \$2.00. Ammo? Magnificent Forester leather covered pistol case grain leather for only \$5.00. No pins, web slings. Cleaning rod? Special collapsible one for carrying in exclusive built compartment for only \$5.00. Special connoisseurs special! !!! A very few of these magnificent carbines available in almost mint condition with specially grained alpine walnut stocks and gleaming original blue at only \$17.95. All bolts cock on opening! Note: This rifle is officially known as the Mannlicher-Carcano Carbine, .38 Cal. 7.35mm (.300"). Be certain to use only original issue ammo manufactured exclusively for these carbines and available through Ye Old Hunter.

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- .30-06 U.S. COMMERCIAL LOADS . . . \$6.00
Get the others' page when they see this . . . U.S. Commercial (Winchester and Remington) 150 Gr. FP loads in original commercial 20 rd. boxes. Fresh stock! Pay no more anywhere else-where. Ye Old Hunter brings ammo prices back where they never were and YOU benefit!! No crimped-in corrosive primers.
- 44-40 WINCHESTER BY U.M.C. . . . \$5.00
Rare original UMC 217 Gr. Black Powder loads that will function in all modern guns as well as those choice old Colts and Winchester. Huge new shipment permits this unprecedented low bargain price.
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Finest quality recent date issue ball ammo in original 6 rd. CLIPS at the lowest price ever offered. Others sell the clips alone for more than we sell the ammo loaded in them. 128-gr. original issue ball round . . . the first of the new "short cartridges" and still among the finest . . . Year's greatest bargain!
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Choicest imported 160 Gr. Ball Ammo available at a giveaway price less than the cost of reloading your own. Don't wait to stock up on this tremendous Old Hunter Special!
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Beautiful, original German issue—in original 15-rd. boxes from Germany's greatest factories — RWS, DWM, others. True 6.323 diameter bullets alone worth the price of the ammo! Buy these entire AP rounds. The Pride of the Nazi Wehrmacht!
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AMAZINGLY TRUE! AMMO BUGS & SHOOTER'S DREAM! Original .42 COLT BERDAN cartridges in unopened 6 rd. packets. Full Arsenal! Paper patched 370 gr. bullets in like new condition at this unbelievable bargain. Others list single rounds at up to \$3.75! Minimum order: 6 packets please. To save expense.

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100 ROUNDS 7mm MAUSER . . . \$1.50

Ye Old Hunter rocks the world with this less-than-scrap-price bargain. Aged and selected 7mm guaranteed to be mostly un-damaged but an excellent target ammo. The clips alone are salvager—All brass cases and all beautiful FP bullets. The Ammo offering of the century—Load up now at this bargain cannot last for long! MINIMUM ORDER: 400 ROUNDS, please, to save expense. Others—talk low prices but Ye Old Hunter delivers!

ORIGINAL BRITISH STEN MACHINE GUN



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of finest American Walnut, pretreated, shaped and through 1st sanding, note measurements which permit inletting for both high power and small bore rifles or action shotguns; or cut off and use on pump shotguns. 28 1/2" long, 1 1/4" through, 2 1/4" depth. Special price—\$2.35 plus 25¢ del.

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We thought these, slight unseen, thinking they were brackets alone which we could sell for \$1.50—Lucky us (and you) they came in complete with issue universal gun cases, & we are passing this lucky buy on to you. Case detachable of heavy duty canvas with rust proofed 45" slipper. Ideal for gun carrying in field, wide enough for some mounted guns, moisture & mildew proofed Gun bracket of steel, easily mounted to wall, car, trunk, etc. Holds gun firmly preventing scratching & wear. All surfaces gun touchers protected by cloth. BOTH items—only \$3.50 ppd.

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Shooters! Gunsmiths! Dealer! A terrific value! Choke attachment worth \$17.95, complete and ready to silver-solder or braze in your own shop, 5 in. long, in white, complete—12, 16 or 20 ga.—\$4.95 PPD

used the 172-grain boat-tail bullet. An innovation in FA ammunition included reproductions of test targets in the boxes of each sub-lot, to permit the shooters to use that of best accuracy to best advantage. For example, a lot that is listed as having a mean radius of 600 yards of 3.5 inches, may include sublots that will do 2.0 or 2.5 inches. Formerly the identity of such sublots was lost when shipped to the field. Army Lieutenant Herbert V. Voelcker who placed first in the tryouts for the 300 meter Olympic shoot used this special FA ammunition.

As a result of the 1956 success, once again specially manufactured match ammunition will be available for the service rifles to be fired in the 1957 National Matches at Camp Perry, Ohio.

The Armed Forces are placing great emphasis on good marksmanship, the traditional forte of the American soldier. Hence, when Frankford Arsenal re-entered the Match ammunition field recently, an appropriate label for the carton presented a challenge. They wanted some tie-in to connect the idea of especially accurate Match

cartridges with the past glamour of our early military history. The new Match label, printed in red, white, and blue, incorporates the word MATCH in large block letters, with a superimposed classic American eagle. This eagle was reproduced from the one first used in 1821 on the Regular's headgear.

The current Match ammunition being produced at Frankford Arsenal is averaging a mean radius at 600 yards of about 2.8 inches. Naturally, selected lots are better than the average. This year they would like to beat the old U.S. record for National Match ammunition. The best cartridges formerly supplied for Camp Perry were in 1925, when tests showed an average mean radius at 600 yards of 2.58 inches. One of the 8 sub-lots went 2.42 inches. One sub-lot in 1933 also hit 2.42, though the average for that year's Match ammunition was 2.8. That hot 1933 sub-lot contained 540,000 rounds, so it was really an extremely fine cartridge. Beat the record or not, this year's ammunition will not be bad!

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large quantities of parts for export orders—especially 30 carbine, 30 Garand, 30 & 50 caliber machine gun plus their accessories & attachments. 2 very large orders enable us to pay exceptional prices until orders filled. Advise quantities & best price or ship off for offer—check airmailed, goods returned immediately prepaid if offer not o.k.—still want "Junkers" & commercial parts new or used, of course.

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(23", .308 on threads, 1" at shoulder, tapering to .502 at muzzle). In white, fine 1137 steel, suitable for rim or center fire—a good heavy barrel with guaranteed accuracy—\$2.95 plus 40¢ postage. Same barrel, smooth-bore for shot—\$2.95 plus 40¢ postage.

Add \$1.00 if you wish either blank chambered for .22 rim fire.

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Issue 321c, used, bores good, make excellent shooters. \$6.95 plus 60¢ ppd.

REMINGTON MODEL 12 & 121 BARRELS, brand new, .22 caliber, if used for model 12 dovetail for mag, must be filed in—\$8.50
REMINGTON MODEL 34 & 341 barrels, new, .22 caliber, \$6.50.

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27 1/2" long, straight 1/4" dia.—0 groove. One end turned to 1/4" from 1/4" from turned end shallow position flat. Used for .44-40, .44 S&W. High alloy steel, adaptable to Win. '02, 1873 & others, pistol barrels, etc. Price \$6.95 plus 55¢ ppd.

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Brand new, straight lengths, 3 1/4" x 8", for extra long and/or fancy barrels. Supplied chambered for .45 auto or unchambered, state which—\$3.95 ea.—or 2 for \$6.50.

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Armstrong receiver sights amazing dual range—after micrometer windage & elevation is set, pressing button increases settings automatically 100 yds., another press & sight returns to original setting.

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GUNS & AMMUNITION

THE FOLLOWING listed arms are in brand new & perfect condition & fully guaranteed: Colt Single Action Army 5 1/2" or 7 1/2". .38 Special or .45 Colt. \$99.50, Colt Python, \$99.50, Officer's Model .22 or .38, \$72.50, Official Police, .22 or .38, \$57.50, Police Positive, .22 or .38, \$56.00, Cobra, \$58.88, Woodman, \$74.50, Huntsman, \$41.50, Government Model .45, \$65.00, Smith & Wesson K-22, \$65.00, Chief, \$53.45, Kit Gun, \$61.50, .44 Magnum, \$120.00, Winchester M-70, All cal., \$105.00, Remington 721 or 722, \$80.00, Savage M-99, all cal., \$98.00, Good used Colt Single Actions from \$40.00. Gunsmithing, leather goods, hard to find parts. Catalog \$2.5. Greer Fire Arms Company, Box 201, Griffin, Georgia.

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HANDLOADERS:—CARTRIDGE boxes with partitions and data labels, prepaid—30-06—270 etc. \$1.40 dozen. 38 spec. 45ACP. etc. \$1.50 dozen. Labels only 50c per hundred. J. E. Bridgman, P.O. Box 2502, Kansas City 42, Missouri.

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DON'T MISS Kahokian Gun Show, Shiloh, Illinois, November 2-3. Secretary: Mrs. Helen Luehli, 2012 North Keebler Street, Collinsville, Illinois.

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COLLECTOR WISHES to trade for US gold twenty dollar piece, Winchester 1873 .44-40 carbine, Detective Special stamped US, S&W Victory .38 Special, S&W Sheffield 5 or 6 inch barrel, all excellent. Britt Brown, c/o Eagle, Wichita, Kansas.

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190 TRICK KNOCKOUTS for self-defense \$1.—1c each. Priest, Box 251, Evanston 1, Illinois.

ELMER KEITH SAYS . . .

(Continued from page 12)

enlarged chambers as a rule to handle them, but they would last a long time with black powder loads. Today a great many collectors and shooters want cases for the old rifles, and none are to be had, due largely to cartridge collectors having gathered up everything that was loose over the country. Many a man has a fine Ballard or Stevens Scheutzen rifle or a fine Creedmoor or Buffalo Sharps which he wants to shoot but for which no cases are available. Frank H. Miles, Box 324, Bedford, Va., makes a business of supplying hand turned cases for most all of the old calibers and rifles, either for shooters or for collectors who want duplicates of the early cartridges. He has made some beautiful .40 3 1/4" Sharps, also .45 3 1/4" and 50 3 1/4" cases, as well as .44-77-470, .44-90 to 105, and other obsolete cases. Given a sulphur or other accurate cast of the chamber, he can turn you out cases to fit the rifle. He has even made up the very rare .70 caliber Winchester cartridge for collectors wanting exact duplicates of the original. These handmade cases take our modern large rifle primers and are lathe turned from solid stock and necked down where bottle neck chambers are involved.

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We have received many requests for plans for gun cabinets or gun racks for long guns. The Ithaca Gun Co. now has a little booklet available at small cost, covering a great many plans for either racks or gun cabinets, with full instructions and dimensions for building same. Many styles and designs are covered to meet most demands.

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Model: '03, Bbl.: 24", 4 groove (not 2 groove). Sights: Famous Springfield sights adjustable to 2700 yds. Windage and elevation. Stocks: Gov't selected American Walnut. Caliber: 30/06. Numbers: All high numbers. Packing: Guns shipped to us in orig. army cosmo-line. We degrease and oil lightly. Shipped in heavy duty protective packing case. **ALL MILLED PARTS:** No hurry-up war time stampings. Wt.: 8½ lbs. Shipping Wt.: 10 lbs.

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Slings: U.S. gov't regulation, cowhide. New \$1.95. Used 95¢. Cleaning rods: 3 pc. and tip, U.S. Army brass \$1.95. Brushes: U.S. Army brass, official, new, 2 for 25¢. Oil: G.I. gun oil, 6 oz. can, 25¢. Patches: G.I. cleaning patches, flannel (200) 75¢. Solvent: G.I. gun cleaning solvent, 6 oz. 25¢. Gun Case: G.I. olive drab, heavy-duty, brand new condition, heavy gov't spec. zipper \$1.95. Scabbard, saddle, cowhide, excellent, \$4.95.

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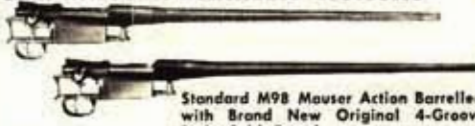
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