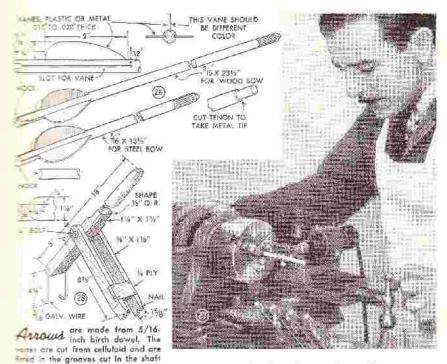


Fig. 20 are the number of threads of 6-cord flax required to hold a bow of the drawing weight indicated. Stepping on the center of the bow while the ends are supported on wood blocks will bend the bow enough to permit slipping the string in place.

Stock for steel bow: Because of the heavier drawing weight, the stock for a steel bow must be made from walnut or other hard, strong wood. The stock should be laid out full-size, Figs. 21 and 24, then transferred to wood, cut out, and then machined in much the same manner as the wood-how stock already described. An addition is the metal track on each side of forearm. Fig. 22. This originally was to protect the wood from the rubbing action of a metal bow string. The metal string (6-strand, 19-wire flexible cable \$\frac{2}{2}\$-in, did not stand up under actual shooting and was discarded for the flax thread. The track, however, is worthwhile protec-

tion even with the flax string, although not essential. All parts of the action are metal, steel for the release, Fig. 23, and trigger, and aluminum or brass for release plates and string track. The bow is housed in a notch cut in the end of the stock, and is held by means of three locating pins and a bolt, as shown in Fig. 25. The carriage bolt is ground round under the head, which is sawed to form a screwdriver slot. The release pin is ½-in diameter, slotted on one end for a screwdriver and threaded on other end to fit a tapped hole in the release plate. All metal parts are of ample strength for bows up to 400 lbs. drawing weight Follow the release and trigger design closely; these parts are nicely balanced to provide positive holding while retaining a light trigger pull.

Arrows: Arrows for both bows are %ain birch dowed. Vanes are plastic, celluloid or metal, glued in grooves cut in the shaft.



27 shows one way of cutting the
28 the shaft being held in the lathe,
29 and by the indexing head, while a
29 hand tool mounted in a slide rest
20 the cutting. Vanes are mounted at
21 tengles, Fig. 26, instead of the usual
22 cuter pattern used for long bow arThis method of mounting provides
22 truddering for smooth, straight
23 and, at the same time, fits the me24 construction of the crossbow.

Cocking lever: Bows up to about 100 lbs.

The weight can be set by hand; over

the eight if is necessary to use a cooking

the fig. 28 shows the construction and

the store of a cocking lever for 11½-in.

The galvanized-wire hook which

the bow will automatically as
the position the first time it is

used. Photo Fig. 7 shows the manner of using the lever. If the release is set slightly forward, the trigger will cock automatically when the string engages the rear prong of the release.

Shooting: After cocking the bow, the cross bow is shot very much like a shot-gun, sighting down the arrow to the target. A little practice will enable you to judge the range and drop of an arrow very nicely. When hunting, the bow can be carried cocked but without arrow. When not in use, the steel bow is left braced, but the wood bow is unstrung. Needless to say, any bow over 100 lbs. packs a terrific drive, and the utmost caution should be exercised in its use. Never fit an arrow in place until you are ready to shoot, and don't point the gun in any other direction than toward the target when the arrow is in place.

Three Simple Ways You Can Preserve Linseed-Oil Putty

To assure a supply of soft putty whenever needed, pack it in a jar having a tightling lid. Level off the putty and cover it with the linseed oil to a depth of '& in. Do not use boiled oil. Before use, pour tia all and take out the required amount putty and repack the remainder. If the little whiting. To do this, cut the putty in small pieces, sprinkle on the whiting and knead the mixture to the desired consistency. If you just want to keep putty soft overnight in hot weather, place it in a jar and cover it with water. You can keep putty for a few weeks by wrapping it in waxed paper before putting it in water.