

ICE TONGS

A good way to determine the curve of the tongs is to mark it on a board or piece of paper. Both parts are made exactly alike, Fig. 54.

How to Make the Ice Tongs

1. Upset that part of the rod, three inches long, Plate 28, to $\frac{3}{4}$ inch diameter.

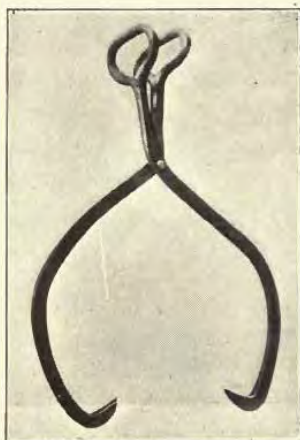


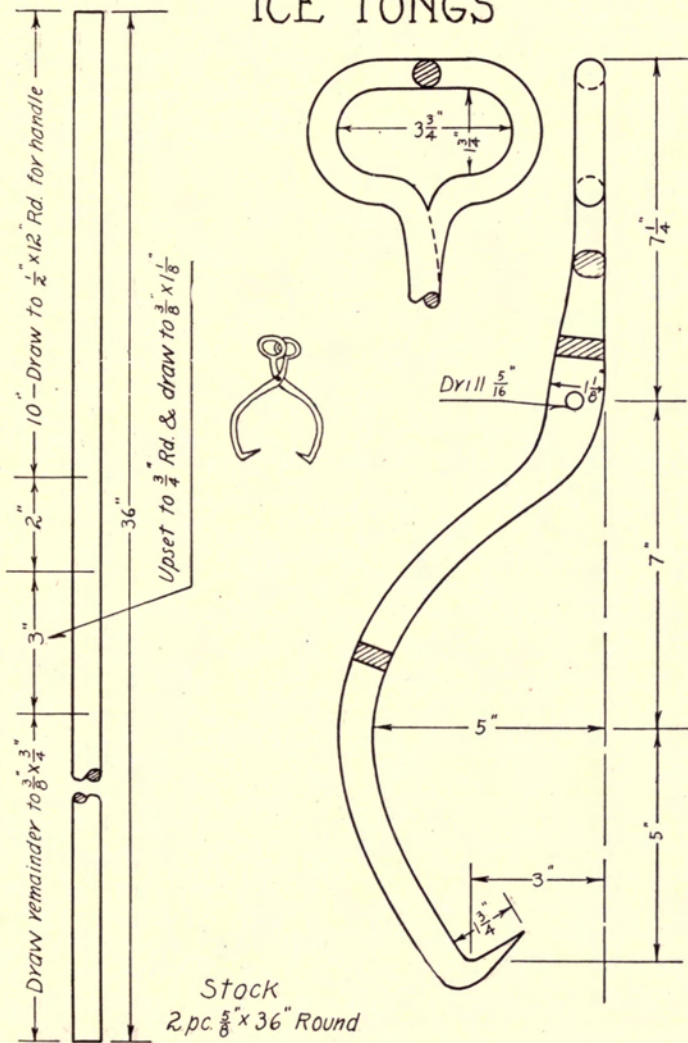
FIG. 54. ICE TONGS.

2. Draw 10 inches of the short end (see drawing on the left of Plate 28) to $\frac{1}{2}$ inch round. This now becomes about 12 inches long.
3. Scarf the end, shape the handle and weld, just as for the baled hay hook, Plate 21.
4. Flatten all of the rest of the rod to $\frac{3}{8}$ inch thick. It will be $\frac{3}{4}$ inch wide except that part which was upset, which will be $1\frac{1}{8}$ inches wide. This part will have the hole drilled in it.
5. Draw a square point as shown in the drawing.
6. Bend the shape indicated in Plate 28.

7. Drill the hole, and make a rivet if you have none.
8. Make the second half of the tongs and rivet the two together.
9. Offset the handles a trifle just below the weld so that they will be opposite each other when the tongs are closed.
10. Case harden the points. They cannot be hardened and tempered because wrought iron or mild steel has so little carbon in it. Heat a point bright red, sprinkle cyanide of potassium over it or rub with a lump held in a tongs. When the iron has lost color reheat quickly and plunge into cold water.

Note.—Cyanide of potassium is a deadly poison. Do not let it touch an open wound, and do not inhale the fumes when sprinkling it on the iron. Wash your hands when you are finished. See page 89 for further information about case hardening.

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UNIVERSITY OF CALIFORNIA

FARM BLACKSMITHING

A TEXTBOOK AND
PROBLEM BOOK FOR STUDENTS IN AGRICULTURAL
SCHOOLS AND COLLEGES, TECHNICAL
SCHOOLS. AND FOR FARMERS

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