

WAGON WRENCH

The wagon wrench is also used for a clevis pin on the tongue of the wagon. The width, $3\frac{1}{4}$ inches, Plate 26, should be such that it will just slip over the nut on the axle. This weld is not a true lap weld as neither part is scarfed.

How to Make the Wagon Wrench

1. Form the head of the wrench, Plate 26.
2. Heat the head, and over a cold piece of round iron or with a top fuller form a small groove across the back where the pin will be welded.
3. Bring both parts to a welding heat (at the same time) and weld. By placing the pin underneath the groove of the head and picking up the two parts together when removing from the fire, the welding may be made somewhat easier. The wagon wrench is shown in Fig. 51.



FIG. 51. WAGON WRENCH.

BOLT HEAD

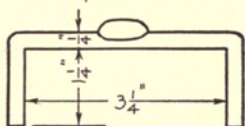
If you have made the various clevis pins shown in this book the making of a bolt head is a simple matter. It can be made readily without a heading tool.

How to Make a Bolt Head

1. Heat the end of the rod to a bright red heat, place in the vise and upset considerably.
2. Heat again and place in the vise at the same point, only turned one-quarter around.
3. Shape the head.
4. Make a good square shoulder all the way around under the head, on the edge of the anvil. Use a set hammer for this if you have one.

WAGON WRENCH

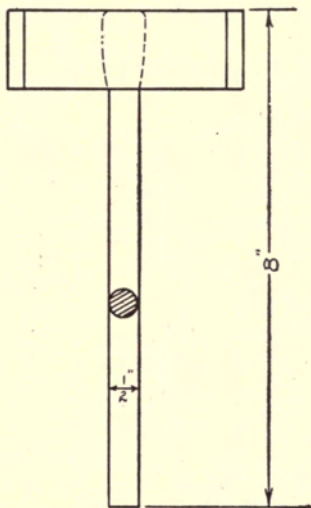
Top View



Stock

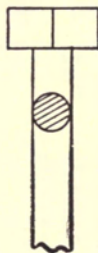
1pc. $\frac{1}{4}$ " x $1\frac{1}{4}$ " x 5"

1pc. $\frac{1}{2}$ " x 8" Round



Front View

BOLT HEAD



UNIVERSITY OF CALIFORNIA

FARM BLACKSMITHING

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

BY
JOHN F. FRIESE

Head of the Machine Shop and Forging Departments,
Technical High School, St. Cloud, Minn.

Author of "Blueprinting"



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