(No Model.)

F. J. WOOSTER.

POWER DRIVEN TOOL FOR DRESSING BARS AND INGOTS.

No. 570,079. Patented Oct. 27, 1896.

Fig. 1.

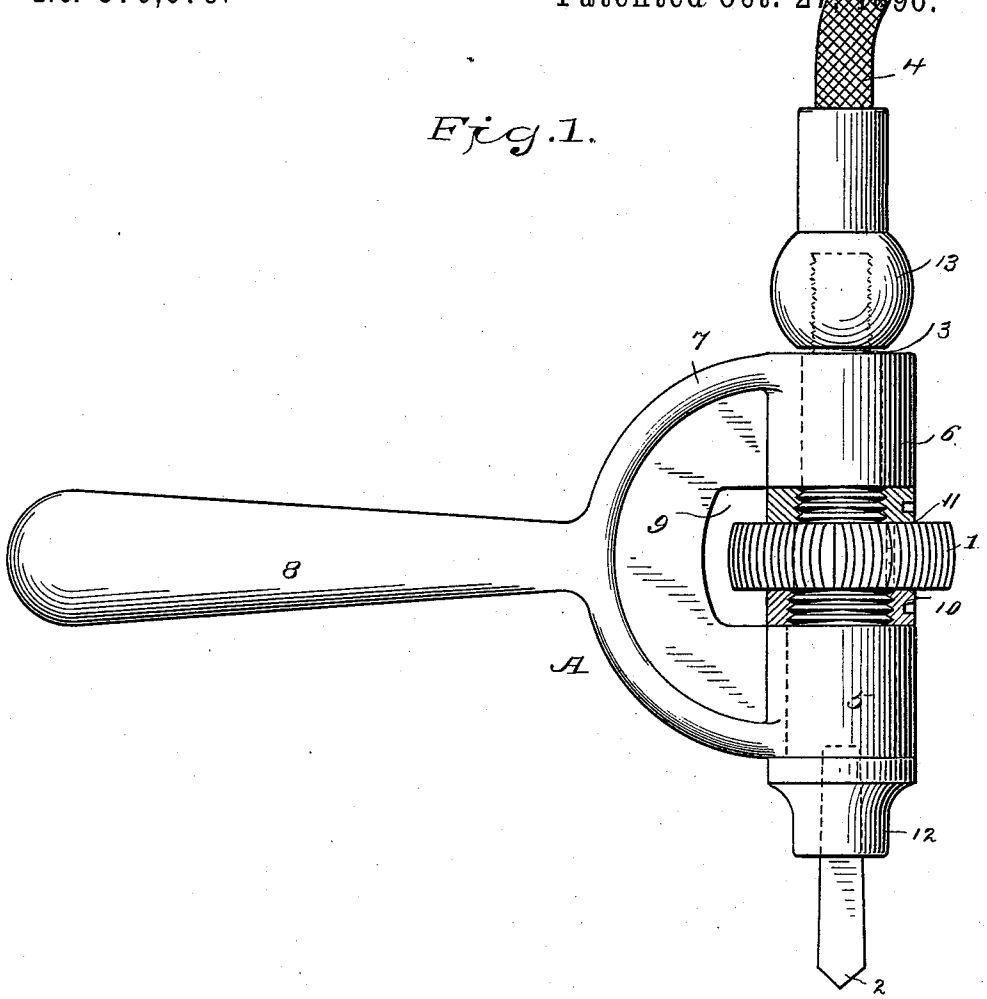
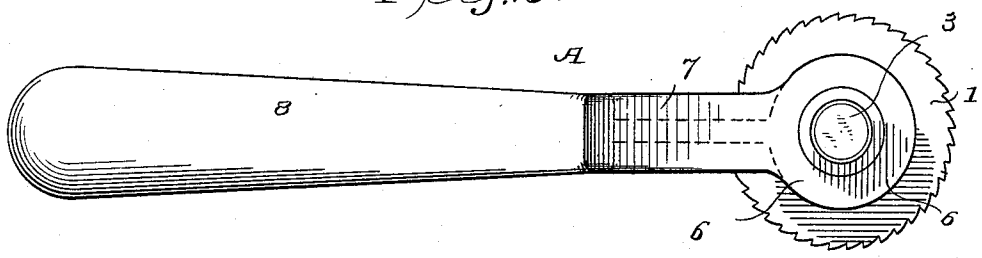


Fig. 2.



WITNESSES

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FREDERICK J. WOOSTER, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE WATERBURY BRASS COMPANY, OF SAME PLACE.

POWER-DRIVEN TOOL FOR DRESSING BARS AND INGOTS.

SPECIFICATION forming part of Letters Patent No. 570,079, dated October 27, 1896.

Application filed August 15, 1896. Serial No. 602,850. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK J. WOOSTER, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Power-Driven Tools for Dressing Bars and Ingots; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide a simple and inexpensive power-driven tool for cleaning bars and ingots of metal. With this end in view I have devised the novel tool of which the following description, in connection with the accompanying drawings, is a specification, numerals being used to designate the several parts.

Figure 1 is an elevation of my novel tool complete, and Fig. 2 is an end view with the flexible driving-shaft removed.

It is of course well understood that under the present system of manipulation bars and ingots of brass and copper, before being rolled, are dressed by being carefully scraped with a hand-tool, and the deeper imperfections removed with a gouge before it is practicable to submit them to the rolling operation; otherwise the sheet metal would be full of flaws and other imperfections and would be useless for the finer grades of work. This dressing operation is quite expensive, as it takes considerable time and wastes a great deal of stock.

My present power hand-tool does away with the use of ordinary hand-tools entirely and renders the operation of scraping entirely unnecessary.

My novel tool consists, essentially, of a bur 1 and a drill 2, both of which are carried by a shaft 3, journaled in a suitable handpiece A and adapted to receive movement from a flexible power-shaft 4. The handpiece consists, essentially, of hubs 5 and 6, which are connected by a yoke 7, the latter extending into a handle 8. The bur lies in an opening 9 between the hubs and is held in place on the shaft by nuts 10 and 11, which engage different-sized threads on the shaft on opposite sides of the bur. The drill is retained in place by a suitable chuck 12, which I have not illustrated in detail, as specifically it forms no portion of my present invention. The end of shaft 3 opposite to the chuck is threaded (see dotted lines, Fig. 1) to receive the connection 13 of the flexible power-shaft.

The operation of my novel tool is as follows: The bur and drill are rotated at any required rate of speed by means of the flexible power-shaft, as described. The operator simply passes the bur over the surface of the bar or ingot to be dressed. The action of the bur is to quickly and lightly remove just the surface of the bar or ingot, without cutting into it deeply and without wasting any appreciable amount of stock. This action of the bur leaves the surface of the bar or ingot bright, so that the operator can easily see any flaws or other imperfections there may be in its surface. These deeper impressions may be removed almost instantly by the drill, the operator simply changing the position of the tool so that the drill will act upon the imperfection in the bar or ingot.

Having thus described my invention, I claim—

1. A tool for cleaning bars and ingots consisting of a handpiece having two hubs with an opening between them, a shaft journaled in the hubs and adapted to be connected with power driving mechanism, a bur carried by the shaft and lying in the opening between the hubs and a drill carried at one end of the shaft.

2. A tool for cleaning bars and ingots consisting of a handpiece having two hubs with an opening between them, a shaft journaled in the hubs and having a flexible power-shaft connected with one end thereof, a bur carried by the shaft and lying in the opening between the hubs, nuts on opposite sides of the bur to hold the latter in place, and a chuck at the opposite end of the shaft from the flexible shaft adapted to receive a drill, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK J. WOOSTER.

Witnesses:
JOHN P. ELTON,
CHAS. E. CONNER.