

(Model.)

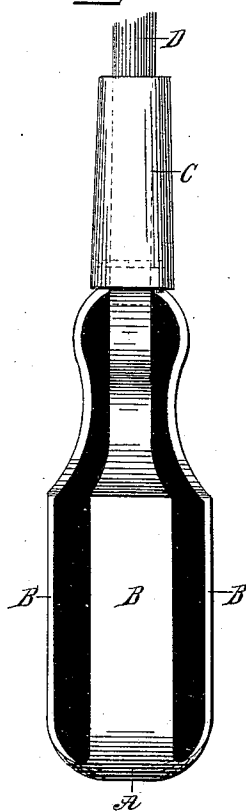
D. & D. C. WHEELER.

TOOL HANDLE.

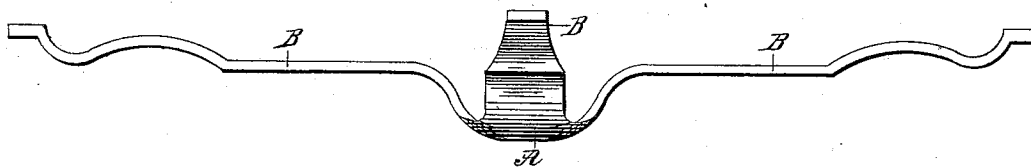
No. 348,145.

Patented Aug. 24, 1886.

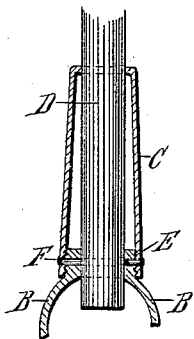
*Fig 1.*



*Fig 2.*



*Fig 3.*



Witnesses.

*E. C. Tucker.*  
*C. E. Ruggles.*

Inventors.

*Twight Wheeler*  
*David C. Wheeler*

*By A. M. Wooster*  
*att'y.*

# UNITED STATES PATENT OFFICE.

DWIGHT WHEELER AND DAVID C. WHEELER, OF BRIDGEPORT, CONNECTICUT, ASSIGNORS OF ONE-THIRD TO JOHN A. CROFUT, OF SAME PLACE.

## TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 348,145, dated August 24, 1886.

Application filed June 17, 1885. Serial No. 168,952. (Model.)

*To all whom it may concern:*

Be it known that we, DWIGHT WHEELER and DAVID C. WHEELER, citizens of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Tool-Handles; and we 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.

Our invention relates to the manufacture of tool-handles, and has for its object to simplify and strengthen their construction, and at the same time to greatly lessen the cost of production, the object being, in brief, to produce a handle that will stand an unlimited amount of hard usage, and which at the same time will cost less than the ordinary styles of handles now in use.

With these ends in view our invention consists in the novel construction which we will now describe, referring by letters to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of the handle complete, and also showing the shank of the tool; Fig. 2, an elevation of the casting as drawn from the mold, and Fig. 3 a section showing the manner in which the shank is secured in the handle.

Similar letters indicate the same parts in all figures.

A indicates the central portion of the handle, B the side pieces, C the ferrule, and D the shank, of the tool.

The upper ends of the arms or side pieces, B, are externally screw-threaded, as at E, and the lower end of the ferrule is provided with a corresponding screw-thread, which engages therewith. The handle may be made of any suitable material, preferably malleable iron, and is cast in the form shown in Fig. 2, thus rendering a core unnecessary, and enabling the casting to be readily drawn from the sand.

The special form of the handle is not of the essence of our invention, and may be varied to

suit the requirements of the tool or the taste of the manufacturer.

The handles as they come from the molds are bent to the form shown in Fig. 1 in suitable dies, and the screw-thread at the ends of the arms or side pieces is cut in the usual manner. If preferred, however, the arms may be cast with the sections of screw-threads thereon.

In assembling, the shank of the tool is passed through the ferrule and down below the upper ends of the side pieces. The operation is completed by turning the ferrule down upon the screw-thread at the ends of the arms or side pieces and securing the parts firmly together by a pin, F, which is driven through the ferrule and shank, and also through two of the side pieces.

We have illustrated the handle as consisting of the central portion and four side pieces. It should be understood however, that three, five, or any other suitable number of side pieces may be used, if preferred.

Having thus described our invention, we claim—

1. A cast-metal handle consisting of a solid central portion forming the base, and arms or side pieces, B, integral therewith, in combination with a ferrule, a tool-shank passing through said ferrule and below the ends of the arms, and a pin, F, driven through said shank and ferrule and through two of the side pieces.

2. A cast-metal handle consisting of a solid central portion forming the base, and arms or side pieces having screw-threads E, in combination with an internally-threaded ferrule adapted to engage therewith, a tool-shank passing through said ferrule and through the ends of the side pieces, and a pin driven through said ferrule and shank and through two of the side pieces.

In testimony whereof we affix our signatures in presence of two witnesses.

DWIGHT WHEELER.  
DAVID C. WHEELER.

Witnesses:

A. M. WOOSTER,  
C. E. RUGGLES.