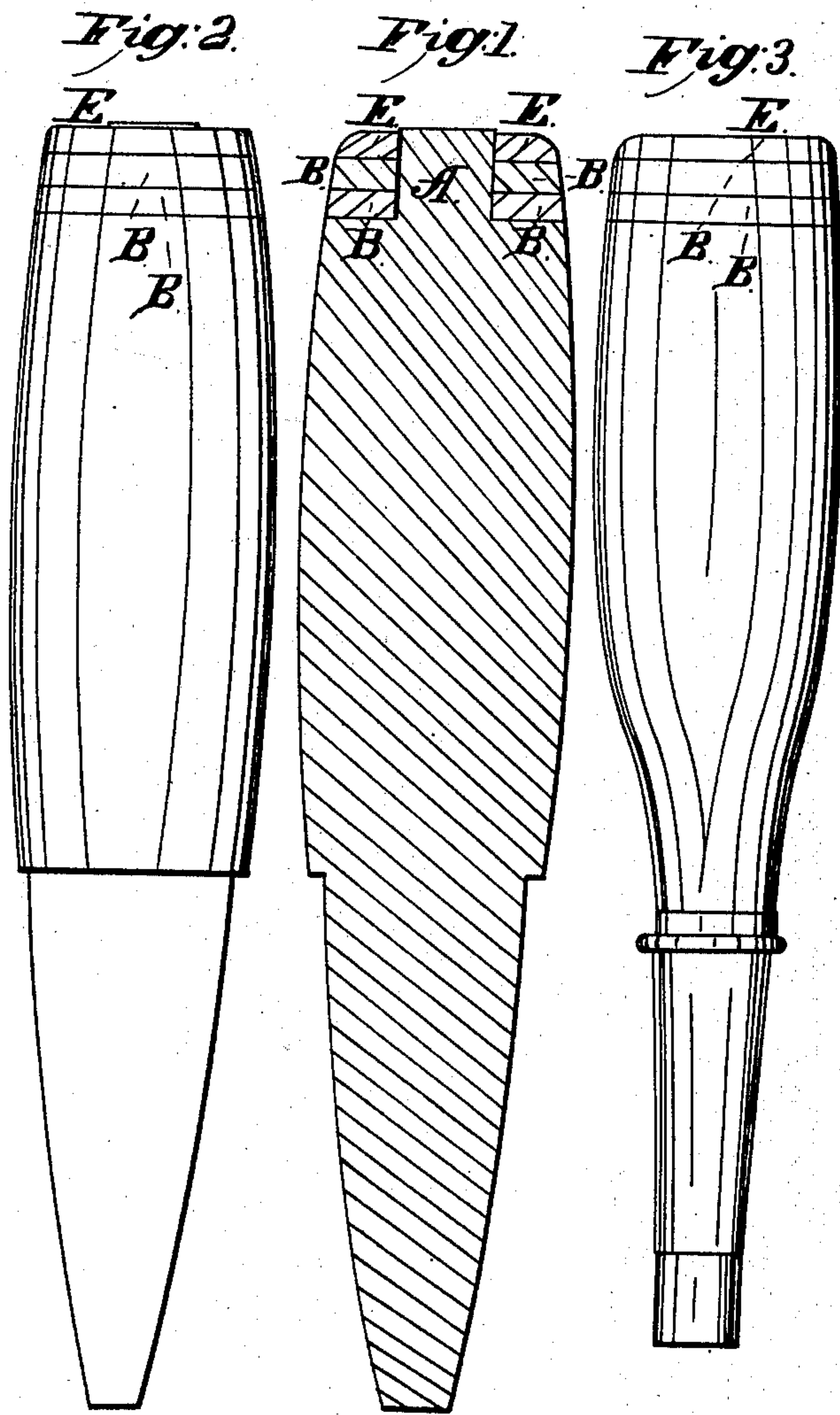


Hilton, Webster & Wheeler.

Tool Handle.

N^o 77,881.

Patented May 12, 1868.



Witnesses
John E. Gome,
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United States Patent Office.

ROBERT V. HILTON, JOHN G. WEBSTER, AND HIRAM E. WHEELER, OF
LOWELL, MASSACHUSETTS.

Letters Patent No. 77,881, dated May 12, 1868.

IMPROVEMENT IN CHISEL-HANDLES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, ROBERT V. HILTON, JOHN G. WEBSTER, and HIRAM E. WHEELER, all of Lowell, in the county of Middlesex, and State of Massachusetts, have invented certain new and useful Improvements in the Handles which are Used with Chisels, Gouges, and other similar tools, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a central longitudinal section of a handle which is used with a socket-chisel or gouge, and with our improvement applied thereto.

Figure 2 is a side elevation of the same.

Figure 3, a side elevation of a handle which is used with the ordinary firmer-chisel.

This invention and improvement consist in the employment of an elastic or a yielding substance between two rigid or unyielding substances, and applied to the top ends or the operating-ends of handles which are used with various kinds of chisels or gouges employed by carpenters and other wood-workers, and has for its object to prevent such handles being split or otherwise injured, by blows of a hammer or a mallet, in driving the gouge or the chisel into wood.

In constructing and applying our invention, a central plug, A, is first formed at the top or the operating-end of the handle C, and of the length desired; then one, two, or more washers, B, of leather or vulcanized rubber, or some other elastic or yielding substance, is placed on the end of the handle, the hole in each washer fitting closely to the outer surface or diameter of the plug. C is the body of the chisel-handle.

There should be a sufficient thickness formed of the above-named washers to bring the upper or the outer washer, B, near the extremity or top end of the plug, but sufficient room must be left for a washer, E, of dry hide or raw hide, which fits on to the plug A above or beyond the leather or the rubber.

This last named washer may be of metal, or any other hard and tough substance, that will resist the action of a mallet or a hammer, and endure for a long time.

The plug A should protrude through the upper or outer washer one-sixteenth of an inch or more, so that a few blows of a mallet or a hammer will upset the wood, and prevent the upper washer coming off or being disengaged while the handle is in use with a chisel or other tool.

When this improvement is applied to a handle, as above described, the elastic or yielding substance B, between the end of the handle and the other hard and tough substance E, (and all of them,) will endure for a great length of time, and protect that end of the handle, and either of the parts may be easily renewed when it has become worn or injured.

What we claim as new, and desire to secure by Letters Patent, is—

The handle C, plug A, elastic rings B B, and cap E, constructed and arranged in the manner and for the purpose as described.

Witnesses:

JOHN E. CRANE,
J. L. WHITNEY.

ROBERT V. HILTON,
JOHN G. WEBSTER,
HIRAM E. WHEELER.