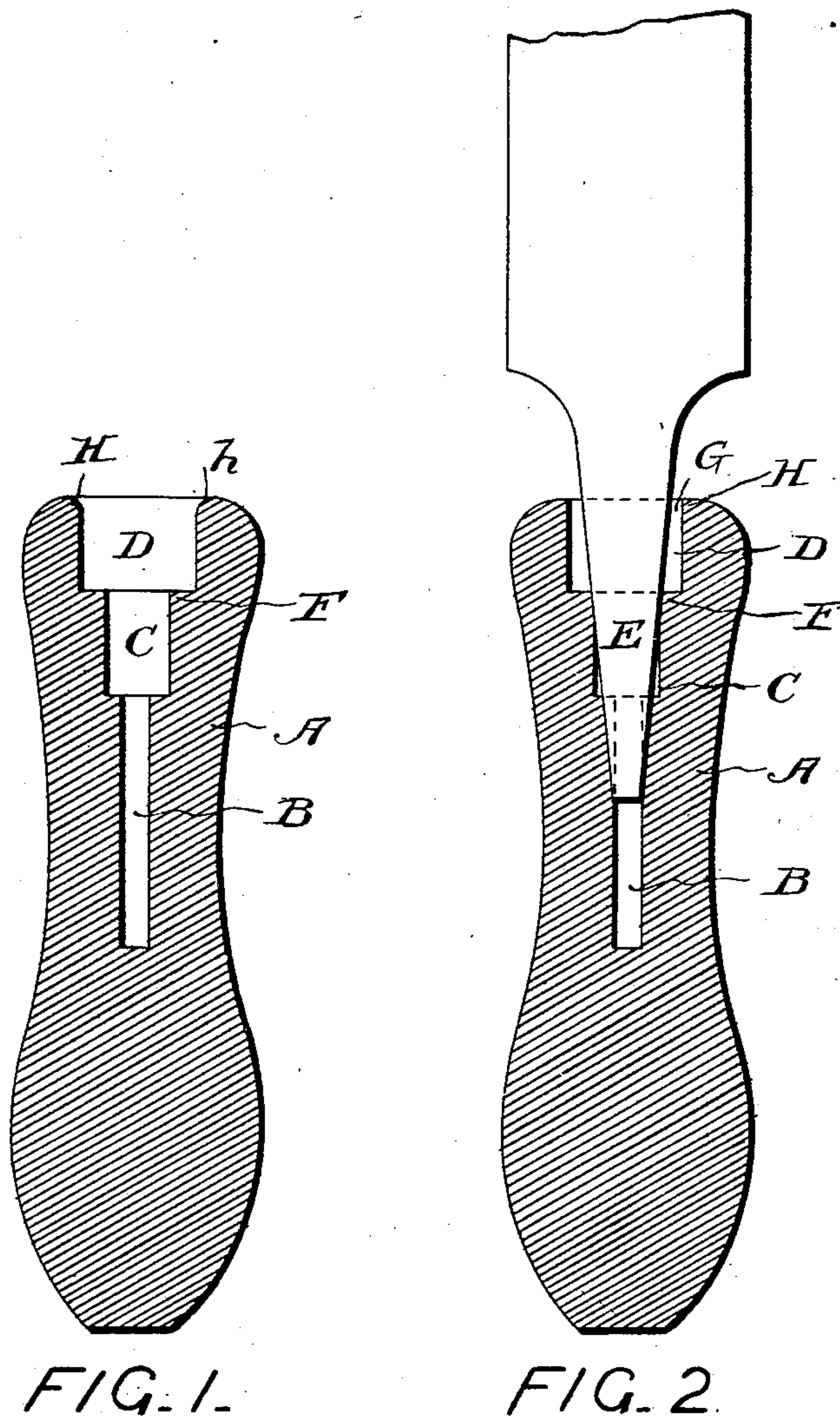


No. 677,253.

Patented June 25, 1901.

J. H. MORGAN.
HANDLE FOR FILES, &c.
(Application filed Mar. 29, 1901.)

(No Model.)



Inventor
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Witnesses
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UNITED STATES PATENT OFFICE.

JOHN HENRY MORGAN, OF HARROGATE, ENGLAND.

HANDLE FOR FILES, &c.

SPECIFICATION forming part of Letters Patent No. 677,253, dated June 25, 1901.

Application filed March 29, 1901. Serial No. 53,450. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENRY MORGAN, a subject of the King of Great Britain and Ireland, and a resident of Thornton, Duchy road, Harrogate, in the county of York, England, have invented certain new and useful Improvements in Handles for Files and other Analogous Hand-Tools, (for which I have made application for Letters Patent in Great Britain, No. 4,681, dated March 5, 1901,) of which the following is a specification.

My present invention has been devised with the object of producing a wooden file or other like tool handle which shall be non-splitting and cheap to manufacture and can consequently be retailed at a low price.

Additional features of my present invention are that I am enabled not only to dispense with the use of a ferrule, which is a necessary adjunct of the ordinary wooden tool-handle, but also to use woods of a softer nature than those usually employed for making tool-handles.

According to my invention I provide the wooden handle with three holes of different diameters. The diameters and depths of these holes are so proportioned that when the tool-tang is driven into the handle the inner hole, which is of the smallest diameter, grips and supports the inner or smaller part of the tang, while the tang is centered and further supported at an intermediate portion of its length by the substance of the wood at the shoulder formed by the junction of the two other holes. The outer hole is formed of such a diameter that that part of the tool-tang located at its outer end is separated by an intervening space from the shoulder or corner formed by the junction of the outer hole with the face of the tool-handle. This intervening space is such that the outer part of the tang, which exerts the greatest splitting effect, never comes in contact with the said shoulder or corner even when the tang has been repeatedly driven farther into the handle, thus

enabling me to dispense with the ordinary strengthening-ferrule.

Referring to the drawings accompanying this specification, Figure 1 is a section of the tool-handle before use. Fig. 2 is a section showing how the tool-tang is supported in my improved handle.

The wooden tool-handle A is formed with three circular holes B C D, of increasing diameter. On reference to Fig. 2 it will be seen that the inner hole B supports and grips the inner or smaller portion of the tool-tang E and that the tang E is centered and supported at an intermediate portion of its length by means of the substance of the wood at the shoulder F. The outer hole D is of such a diameter that a space G always intervenes between the shoulder H and the tang E. The shoulder H may be rounded off, as shown by dotted lines at *h*, Fig. 1, in which case the diameter of the hole D can be reduced.

It may be observed that by increasing the number of holes I can, if desired, support the tang at more than one intermediate position and that the diameters and depths of the holes will vary with the taper and length of the tang.

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

As a new article of manufacture, a wooden handle for files and other analogous hand-tools provided with an inner hole of small diameter an intermediate hole or holes of increased diameter and an outer hole of a diameter greater than that of the broadest part of the tool-tang for the purposes described herein.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

JOHN HENRY MORGAN.

Witnesses:

ERNOLD SIMPSON MOSELEY,
ARTHUR VERNON BATHO.