

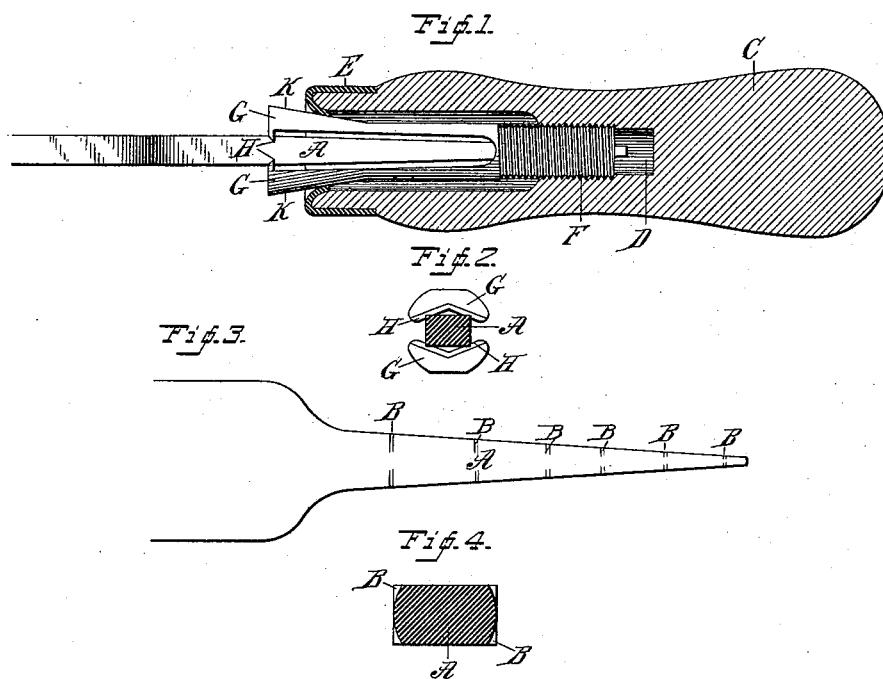
(No Model.)

J. CHANTRELL.

TOOL TANG.

No. 343,225.

Patented June 8, 1886.



Witnesses,

C. C. Perkins.
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Inventor,

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UNITED STATES PATENT OFFICE.

JOHN CHANTRELL, OF READING, PENNSYLVANIA.

TOOL-TANG.

SPECIFICATION forming part of Letters Patent No. 343,225, dated June 8, 1886.

Application filed February 11, 1886. Serial No. 191,582. (No model.)

To all whom it may concern:

Be it known that I, JOHN CHANTRELL, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Tool-Tangs; 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 relates to the class of tools--as, for example, files--which are provided with tangs, ordinarily made integral therewith, to which the handles are secured, and has for its object to produce simple, durable, and economical means, whereby the handles may be attached in such a manner that they will not become loose in use, and the complicated and expensive construction heretofore used may be dispensed with. In order to accomplish this result, and to adapt a tool-tang for ready attachment to a handle, I have devised the improvement in the construction of tangs, which I will now describe, referring by letters to the accompanying drawings, forming part of this specification, in which--

Figure 1 is a section of a handle with a sheath in elevation, and showing my improved tang engaged thereby; Fig. 2, an end elevation of the jaws as in Fig. 1, the tang being in section, showing the manner in which the latter is grasped. Fig. 3 is an elevation of a tang, showing grooves cut at the corners; Fig. 4, an enlarged cross-section of a tang of this style, taken through one of the grooves.

In connection with this case attention is called to my pending applications, Serial Nos. 178,984 and 178,985, filed October 5, 1885, my present invention being intended to cover tools having tangs already prepared for use in connection with my novel styles of handles. A represents the tang of a file or other tool, and B grooves or depressions therein, each set of grooves being arranged in a straight line around it, which are adapted to be engaged by corresponding projections upon some portion of the tool-handle. These grooves may of course be cut in any suitable manner, that not being of the essence of my invention.

This style of tang may be used in connection

with any handle so constructed as to properly grasp it. It is, however, especially adapted for use in connection with my novel tool-handles described in my pending applications above referred to. In order, however, that my invention may be thoroughly understood, irrespective of my pending applications, I will describe the same in connection with one form of tool-handle.

C in Fig. 1 represents the body of the handle, having a central opening, D, and E the ferrule, which is turned over the end of the handle and down into said central opening.

F represents a sheath screw-threaded at its lower end, to engage the interior of the handle.

G represents jaws, which are preferably made integral with the sheath, and are provided at their outer ends with inclined cutting-edges H, adapted to engage grooves or depressions B in the tang.

The operation is as follows: The tang is inserted between the jaws until the cutting-edges enter depressions B. The combined sheath and jaws are then screwed into the handle until inclines K on the backs of the jaws are engaged by the turned-over end of the ferrule, whereby the cutting-edges are forced into depressions B, thereby holding the tang firmly against being turned or removed.

As stated above, files having this style of tangs are adapted for use in connection with any style of handle that will grasp the tang.

I have merely illustrated one style, in order to clearly set forth the object of my invention.

Having thus described my invention, I claim--

As a new manufacture, a tool having an angular tapering tang which is provided with grooves at the corners oblique to the faces thereof, each set of grooves being in a straight line, so that the tool may be securely grasped and held at different places by jaws, and at the same time is prevented from turning.

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

JOHN CHANTRELL.

Witnesses:

J. H. HAGENMANN,
ISAAC R. FISHER.