P. HARTIN & W. CUMMINS.

Tool for Pointing Bolts.

No. 159,922. Patented Feb. 16, 1875.

Fig. 1.

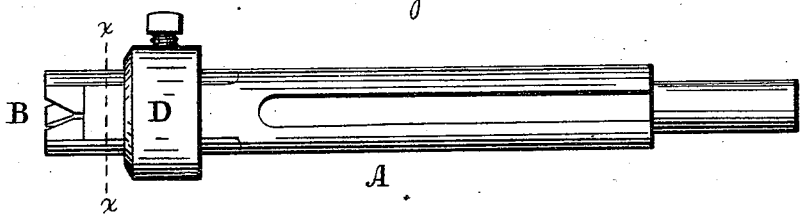


Fig. 2.

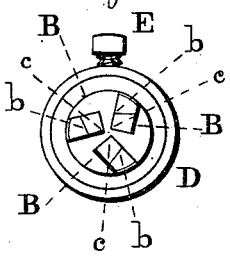


Fig. 4.

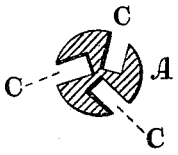


Fig. 5.

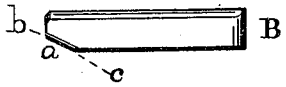


Fig. 3.

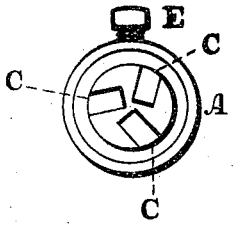
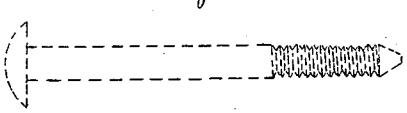


Fig. 6.



Witnesses:

L. F. Brus.

A. P. Grant.

Inventors:

Philip Hartin.

Wm Cummins

by John A. Wiedersheim

Atty.

UNITED STATES PATENT OFFICE.

PHILIP HARTIN AND WILLIAM CUMMINS, OF PHILADELPHIA, PA., ASSIGNORS TO THE M. J. COLEMAN BOLT AND NUT COMPANY, OF SAME PLACE.

IMPROVEMENT IN TOOLS FOR POINTING BOLTS.

Specification forming part of Letters Patent No. **159,922**, dated February 16, 1875; application filed October 13, 1874.

To all whom it may concern:

Be it known that we, PHILIP HARTIN and WILLIAM CUMMINS, of the city and county of Philadelphia and the State of Pennsylvania, have invented a new and useful Improvement in Pointing Bolts; and we do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which our invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side view of the device embodying our invention. Fig. 2 is a front-end view thereof. Fig. 3 is a similar view, the bits being removed. Fig. 4 is a front-end view of the bit stock or head in the transverse sectional line *x x*, Fig. 1. Fig. 5 is a side view of one of the bits. Fig. 6 is a representation of a pointed bolt.

Our invention consists in the combination of a stock and bits arranged in circular order on said stock or head in grooves, secured therein by a screw sleeve or collar, whereby the cutting-edges of the bits properly present themselves for quickly and uniformly pointing or finishing the ends of bolts.

Referring to the drawings, A represents a stock or head, and B B a series of bits or cutters, which are applied thereto and fitted in longitudinal grooves or slots C. The forward portion of the bit is chamfered transversely, as at *a*, and one angle thereof constitutes the cutting-edge, as at *b c*, said angle being preferably acute, so as to increase the cutting qualities of the edge. The bits are fitted in the grooves C, and so disposed that the cutting-edge *b c* of each bit faces toward the chamfered portion of the adjacent bit, whereby said edge is in advance of the remaining portion of the bit, and thus properly presented for the cutting or finishing operation. The outer faces of the bits will conform to the shape of the surface of the stock A, and are made flush therewith, and over the bits and adjacent portion of the stock is passed a sleeve, D, which, by means of a screw, E, firmly secures the bits to the stock. The bolt is properly advanced to the cutters, and its end comes in contact with the edges *b c*, which readily and quickly remove a portion of the bolt, leaving the end of the bolt, owing to the chamfers *a* of the bits of conical form.

In the event that the bits B require sharpening or have become broken or fractured the screw E is loosened and the sleeve D removed, whereby the bit or bits may be easily withdrawn from the grooves of the stock.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The improved pointing-tool, herein described, consisting of the removable bits B, grooved stock A, sleeve D, and screw E, combined and operating substantially as and for the purpose set forth.

PHILIP HARTIN.
WILLIAM CUMMINS.

Witnesses:
JOHN A. WIEDERSHEIM,
FRANK H. WELSH.