

(No Model.)

E. W. COOKE.
TOOL HOLDER.

No. 466,327.

Patented Jan. 5, 1892.

Fig. 1.

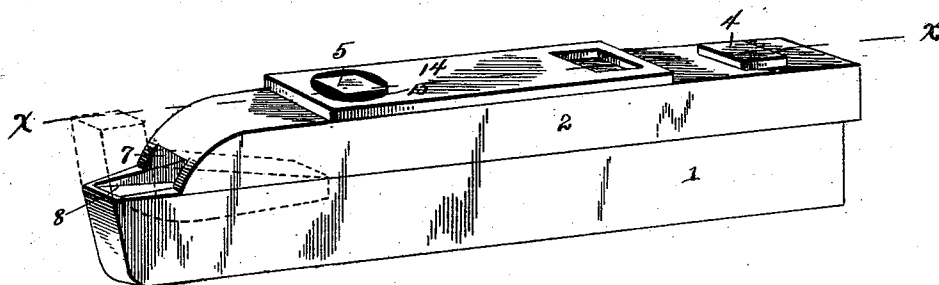


Fig. 2.

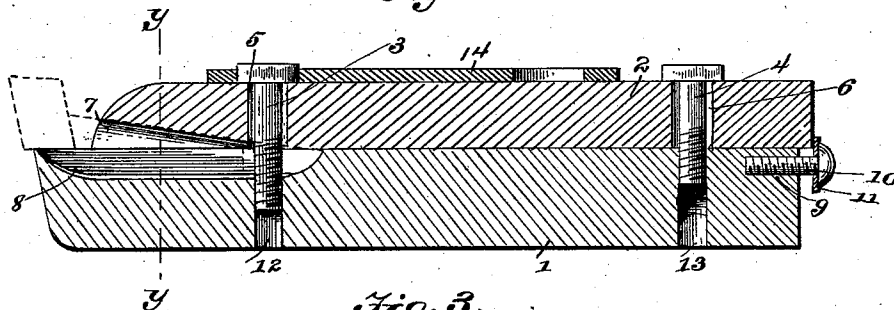
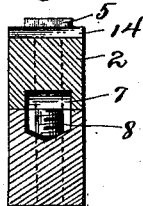


Fig. 3.



WITNESSES.

J. B. Keefe
E. H. Parry

INVENTOR
Ernest William Cooke

BY
W. E. Augustus
ATTORNEY

UNITED STATES PATENT OFFICE.

ERNEST WILLIAM COOKE, OF WESTERN SPRINGS, ILLINOIS.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 466,327, dated January 5, 1892.

Application filed February 9, 1891. Serial No. 380,855. (No model.)

To all whom it may concern:

Beit known that I, ERNEST WILLIAM COOKE, a citizen of the United States, and a resident of Western Springs, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Tool-Holders, of which the following is a specification.

My invention has relation to tool-holders for use in lathes; and my object is to provide a tool-holder that may be readily taken apart and cleaned and one that will hold in a steady and secure manner the cutting-tool, thereby preventing its displacement while in use.

In the accompanying drawings, Figure 1 is a perspective view of my tool-holder, showing in dotted lines the cutting-tool in position. Fig. 2 is a sectional view on line *x x* of Fig. 1, and Fig. 3 is a sectional view on line *y y* of Fig. 2.

In the drawings forming part of this specification, the numeral 1 indicates the lower section of the tool-holder, to which is adjustably secured the upper section 2 by any suitable means, in this instance by screws 3 4, passing through enlarged openings or slots 5 6 in the upper section 2 and entering threaded holes 12 and 13 in the lower section 1, as plainly shown in Fig. 2. The upper section 2 of the tool-holder is cut away or milled at its forward end on the under side, as at 7, said cut-away portion being of substantially the shape of the upper portion of the shank of the tool designed to be held in the holder, in this instance being inclined upwardly. The lower section 1 is also cut out or milled, as at 8, said lower cut-away portion being of a configuration similar to the under side of the shank of the cutting-tool designed to be used. In this instance the cut-away portion is concaved or substantially V-shaped in cross-section, and at its upper end is inclined upwardly, as shown plainly in the drawings. I find that such a construction of tool as this presents better means for securing the tool in position against lateral displacement. The rear end of the lower section 1 is provided with a threaded hole 9, in which the screw 10 operates. 11 indicates a washer interposed between the head of the screw and the end of the tool-holder. By means of this screw 10 I am enabled to adjust longitudinally the upper section 2 of the tool-holder.

In operation the cutting-tool is placed with its convex or swelled portion in the correspondingly-shaped recess in the lower section of the tool-holder, and the upper section is then placed in position with its inclined recessed portion straddling the inclined upper side of the shank of the cutting-tool. The screws 3 and 4 are then passed through the slots in the upper section into the threaded holes in the lower section and turned so as to tightly hold the tool in position. The upper section, as already stated, is adjusted longitudinally by the screw and washer in the rear portion of the lower section.

Owing to the shapes of the portions of the sections which contact with the tool, the latter is immovably locked in position so as to successfully resist the severe strain of the hardest metal that it may be necessary to operate upon. In fact, the resistance of the material operated upon has a tendency to make the fastening more secure.

Having thus fully described my invention, what I claim herein as new, and desire to secure by Letters Patent of the United States, is—

1. A tool-holder having an upper and a lower section recessed, the recess of the lower section being concaved at each end, adapted to receive a non-curved tool, and the upper section provided with a tap for the top of the shank to rest against, and means whereby said sections are adjustably secured together, as set forth.

2. A tool-holder having an upper and a lower section, and means for adjustably securing said sections tightly in contact throughout their lengths, the upper portion being recessed and provided with a straight tapering shoulder and the lower portion having a concaved recess, said recesses being adapted to receive the tool-shank, as set forth.

3. A tool-holder having upper and lower sections with contacting faces through their lengths and both recessed at their forward ends, the recess of the upper section being straight and the recess of the lower section being concaved and said lower-section recess projecting at one end beyond the upper-section recess, and means for securing said sections adjustably together, as set forth.

4. A tool-holder the lower section of which

projects beyond the upper at one end, means
for securing said sections adjustably together,
and a device fitting in the end of one section
and bearing on the end of the other section
5 for adjusting the sections longitudinally, as
shown.

5. A tool-holder in which the lower section
has a concaved seat to receive the convex
portion of the cutting-shank and the upper
10 section of which has an upwardly-inclined
bevel to receive the upper portion of the cut-

ting-shank, means for adjustably clamping
the cutter, and means for longitudinally ad-
justing one section of the holder upon the
other, as set forth. 15

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

ERNEST WILLIAM COOKE.

Witnesses:

W. E. AUGHINBAUGH,

R. J. BEALL, Jr.