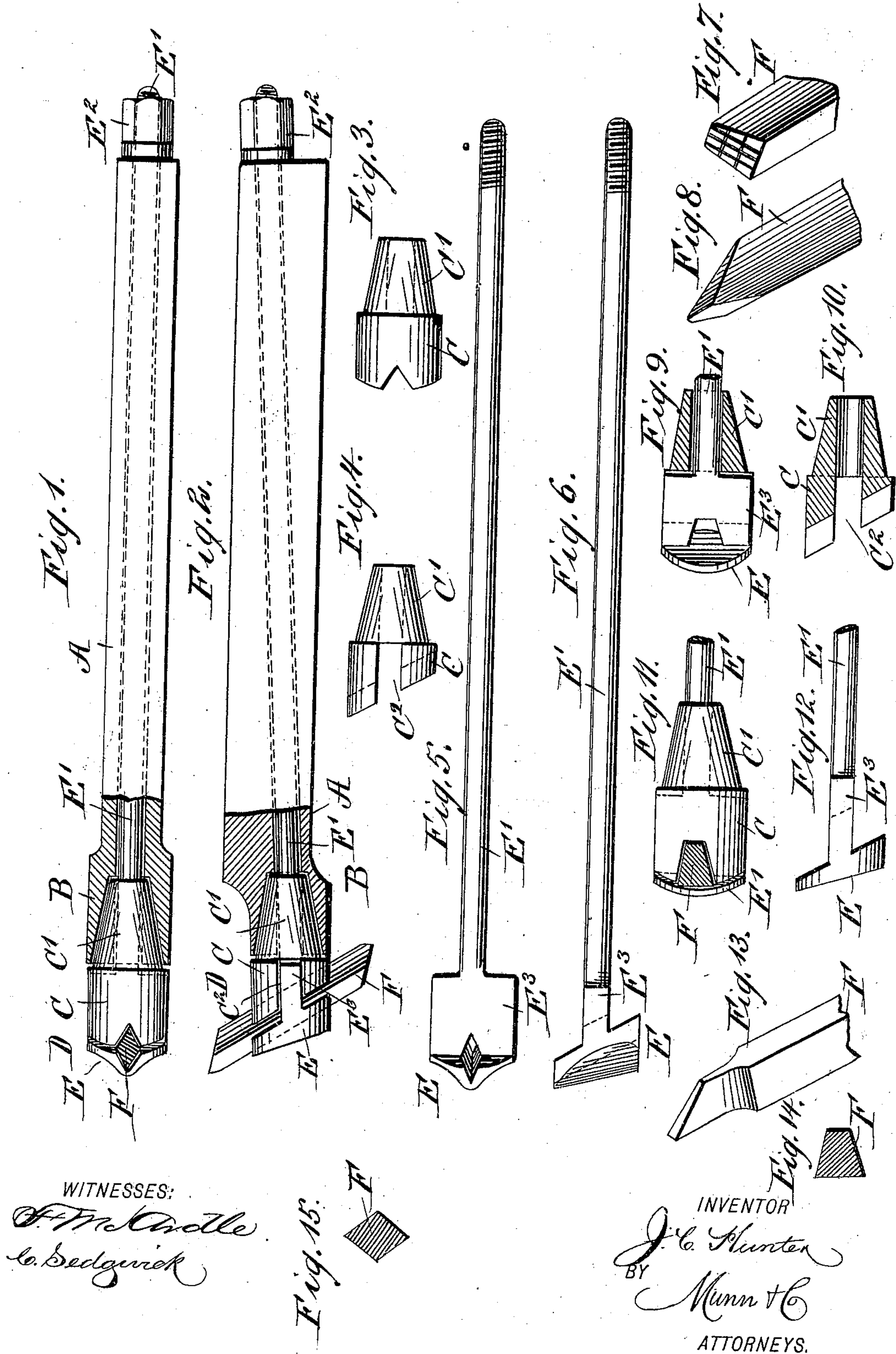


(No Model.)

J. C. HUNTER.
TOOL HOLDER.

No. 502,564.

Patented Aug. 1, 1893.



UNITED STATES PATENT OFFICE.

JOHN C. HUNTER, OF SAN FRANCISCO, CALIFORNIA.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 502,564, dated August 1, 1893.

Application filed October 31, 1892. Serial No. 450,574. (No model.)

To all whom it may concern:

Be it known that I, JOHN CHRISTOPHER HUNTER, of San Francisco, in the county of San Francisco and State of California, have
5 invented a new and Improved Tool-Holder, of which the following is a full, clear, and exact description.

The invention relates to tool holders for
10 lathes, planing, shaping, slotting and other machines.

The object of the invention is to provide a new and improved tool holder, which is simple and durable in construction, very effective in operation, and arranged to readily fasten the
15 desired tool in the proper position.

The invention consists of a head made in sections between which the tool is clamped, one of the sections being adapted to be seated in the stock.

20 The invention also consists of certain parts and details, and combinations of the same, as will be hereinafter described and then pointed out in the claim.

Reference is to be had to the accompanying
25 drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the improvement with parts in section. Fig. 2 is a side
30 elevation of the same with parts in section. Fig. 3 is a plan view of one of the head sections. Fig. 4 is a side elevation of the same. Fig. 5 is a plan view of the other head section. Fig. 6 is a side elevation of the same. Figs. 7 and
35 8 are perspective views of different tools. Fig. 9 is a sectional plan view of a modified form of head. Fig. 10 is a sectional side elevation of the section of the head shown in Fig. 9. Fig. 11 is a plan view of another modified form
40 of head with the tool in section. Fig. 12 is a side elevation of one of the head sections shown in Fig. 11. Fig. 13 is a perspective view of another tool, and Figs. 14 and 15 are cross sections of different tools.

45 The improved tool holder is provided with a stock or body A, adapted to be secured to the machine on which the holder is to be applied. In the stock A is formed a socket B, in which is adapted to be seated the conical shank C' of
50 the head section C, forming part of the head

D, provided with another head section E, between which and the head section C, the tool F is clamped.

As shown in the drawings the head section E is formed with a rod E', extending through
55 the head section C, and its shank C' and also through a corresponding aperture formed longitudinally in the stock A, the end of the said rod being screw-threaded and engaged by a
60 nut E², adapted to screw up against the end of the stock, to draw the head section E firmly onto the tool F held between the two head sections E and C.

In order to prevent the head section E from turning, I make part of the rod E' flat as at
65 E³ to form a tongue to engage corresponding recesses C² formed in the other head section C. In order to securely hold the tool F in the proper position, I provide the two sections with recesses or grooves corresponding to the
70 cross section of the tool so that when the nuts E² are screwed up, the tool is securely clamped in place between the head sections.

As shown in the drawings, the adjacent faces
75 of the head sections are preferably inclined so as to hold the tool in an angular position relative to the stock A. In the face or end of the head section C is formed a transverse groove, shaped according to the half cross section of the tool F, which latter also passes
80 through a correspondingly-shaped aperture in the flat part of the rod E', as plainly shown in Fig. 5.

I do not limit myself to any particular form of grooves for the tool as the said grooves and
85 apertures are varied according to the cross section of the tool employed, and also do not limit myself to the particular construction of the heads, as the same may be varied according to the use of the tool on a particular machine.
90

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

A tool holder comprising the longitudinally bored stock A having a socket B in its outer
95 end, the head section C having a longitudinal bore, a shank C' fitting the socket B, and provided with transverse intersecting recesses or grooves across its front face, the rod E' extending through the head section C and the
100

stock and formed at its outer end with the
outer head section H having a flat portion E³
entering one transverse recess C² in the sec-
tion C and having a transverse opening and
5 an intersecting groove receiving the tool or
cutter, and a nut on the opposite end of the
rod to draw the head section E inwardly and

bind the tool in the opposed transverse re-
cesses in the two head sections, substantially
as set forth.

JOHN C. HUNTER.

Witnesses:

E. H. THARP,
GEO. E. HUNTER.