

(No Model.)

2 Sheets—Sheet 1.

P. HITTEL.

TOOL HOLDER FOR CUTTER HEADS.

No. 270,313.

Patented Jan. 9, 1883

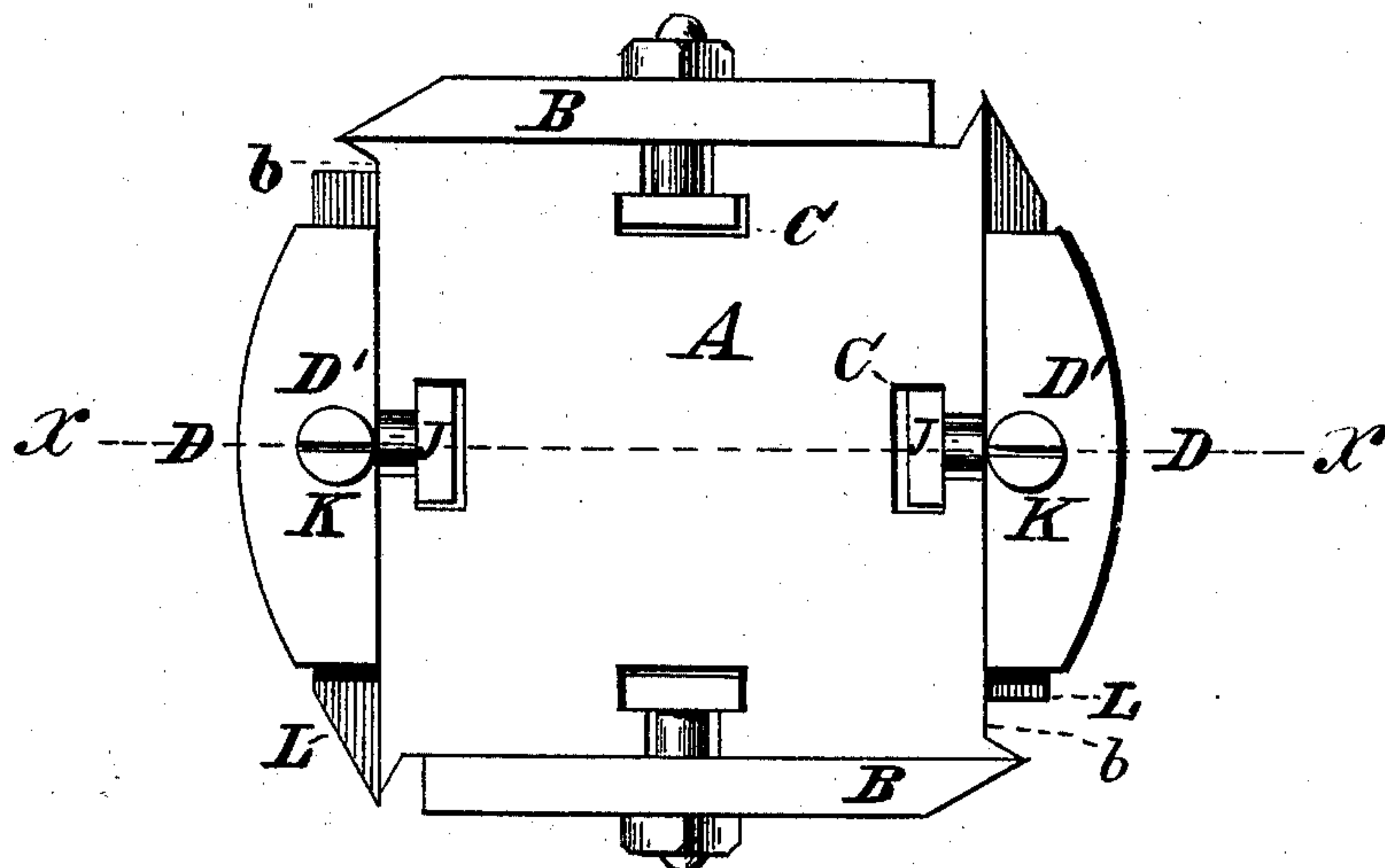


FIG. 1.

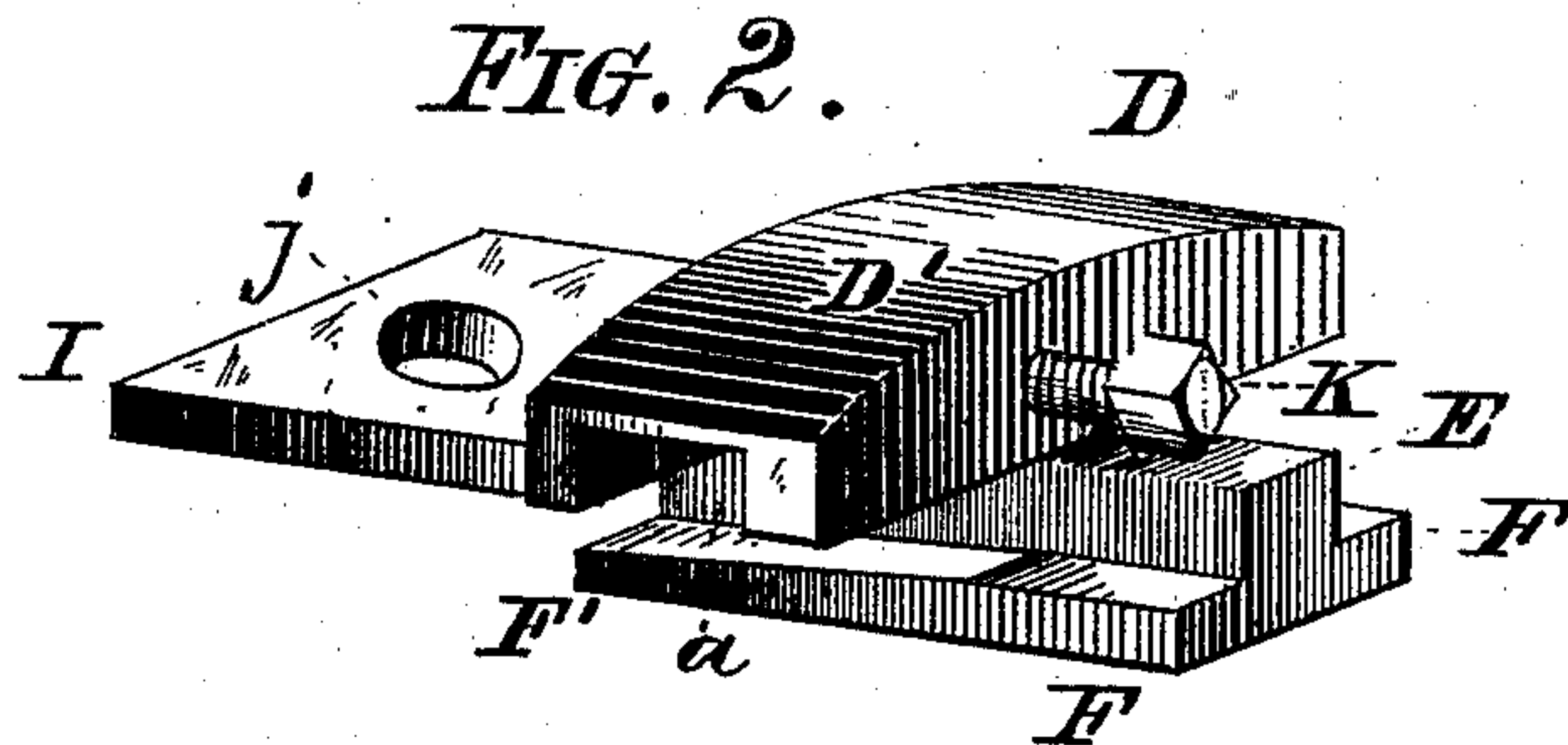


FIG. 2.

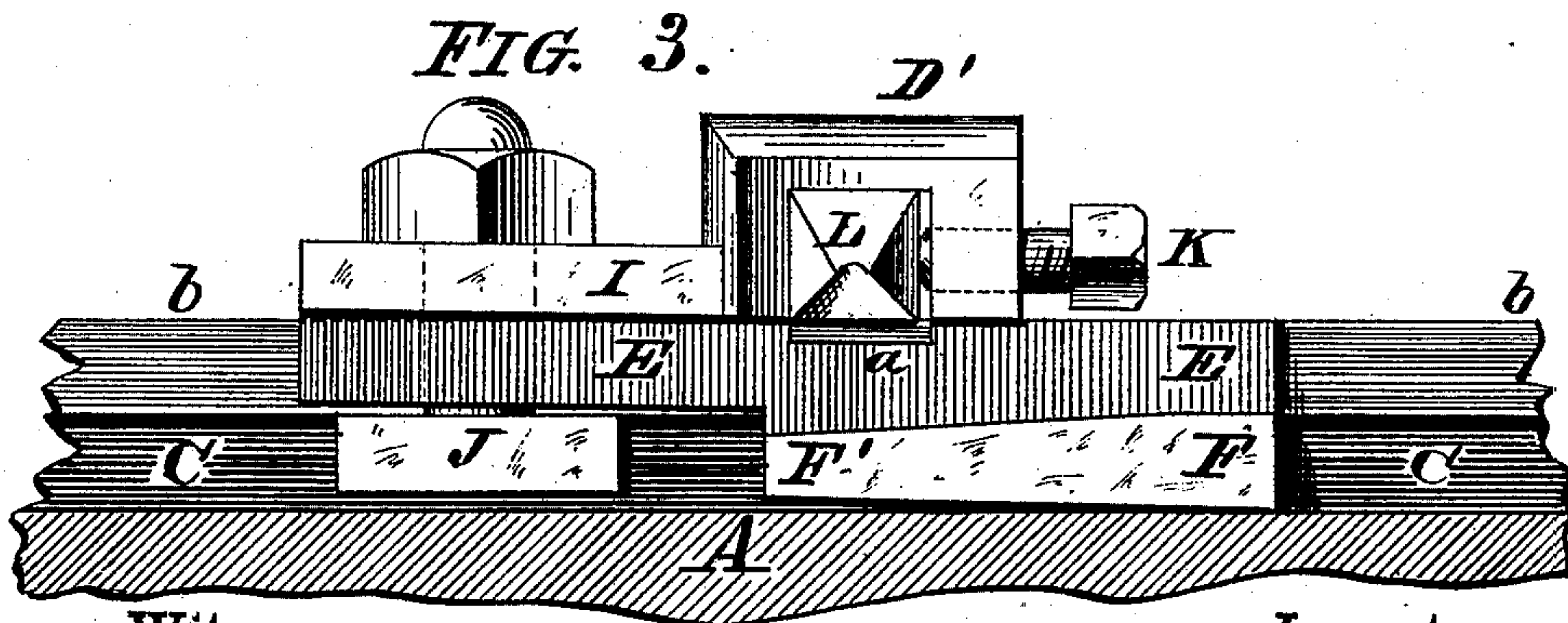


FIG. 3.

Witnesses:

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Inventor:

Peter Hittel
by Michael J. Stark
Attorney.

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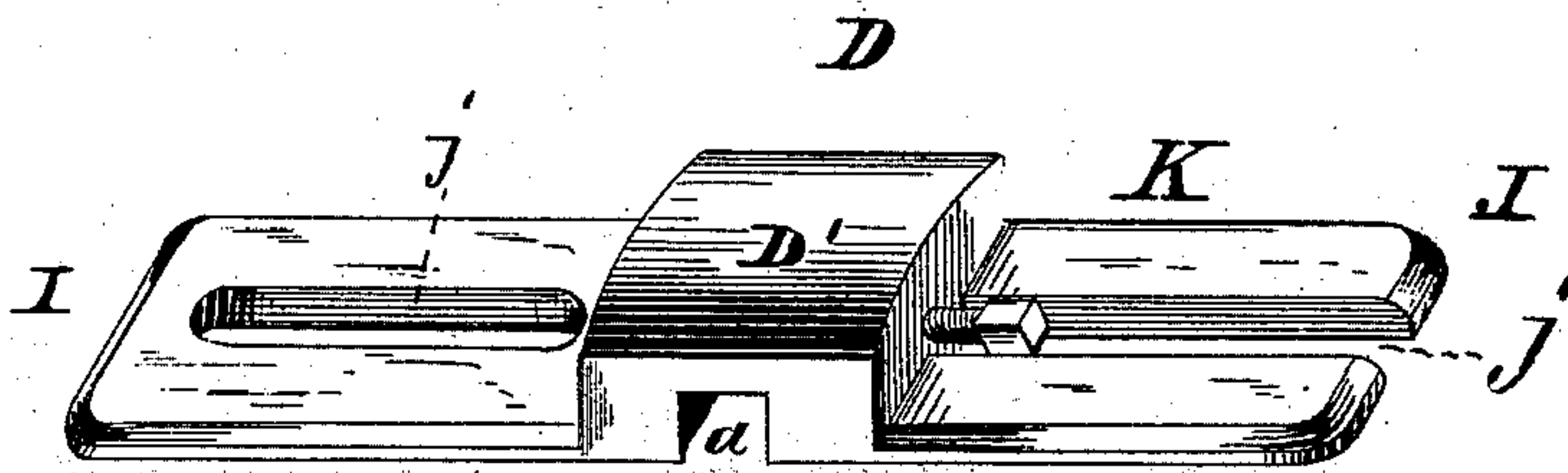


FIG. 4.

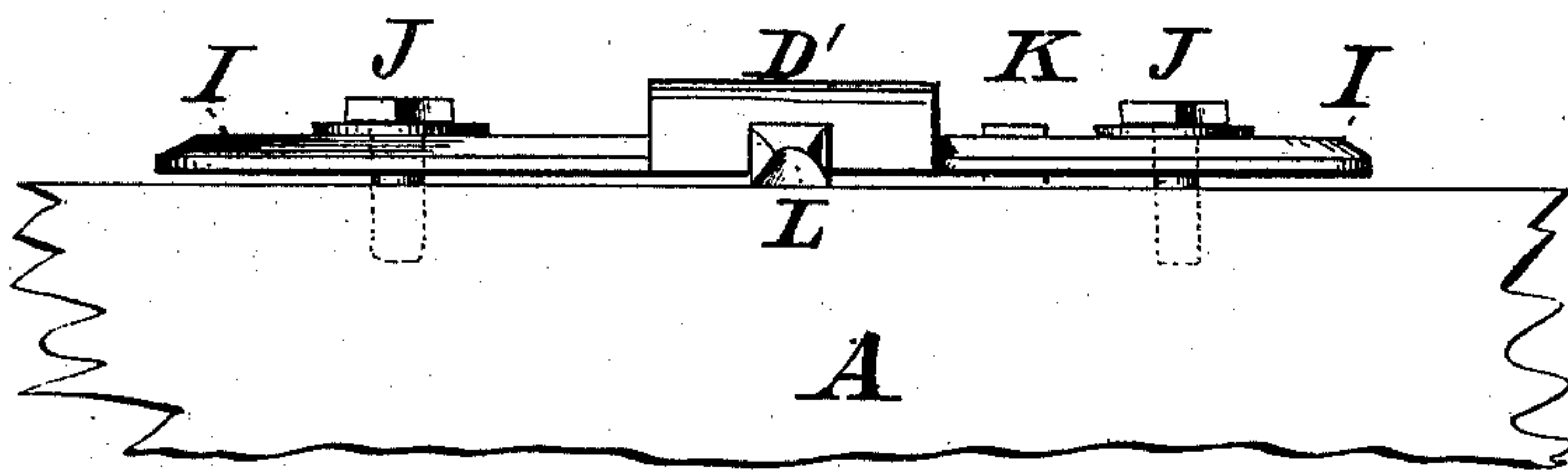


FIG. 5.

Witnesses:

Al. Stark,
Willie O. Stark.

Inventor:

Peter Hittel
by Michael J. Stark,
Attorney.

UNITED STATES PATENT OFFICE.

PETER HITTEL, OF TONAWANDA, NEW YORK.

TOOL-HOLDER FOR CUTTER-HEADS.

SPECIFICATION forming part of Letters Patent No. 270,313, dated January 9, 1883.

Application filed October 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, PETER HITTEL, of Tonawanda, in the county of Erie and State of New York, have invented certain new and useful Improvements in Tool-Holders; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has general reference to a tool-holder for wood-working machinery; and it consists essentially in the novel and peculiar combination of parts and details of construction, as hereinafter first fully set forth and described, and then pointed out in the claims.

In the drawings, already mentioned, which serve to illustrate my said invention more fully, Figure 1 is an end view of a planing-machine cylinder with the planer-knives and my improved tool-holder attached. Fig. 2 is a perspective view of the tool-holder detached. Fig. 3 is a longitudinal sectional elevation through the cylinder, showing the tool-holder in a side elevation. Figs. 4 and 5 are detail views of a modified construction of my said tool-holder.

Like parts are designated by corresponding letters of reference in all the figures.

The object of my present invention is the production of a simple and comparatively-cheap device for holding auxiliary tools to wood-working-machine cylinders. To accomplish this object I construct a tool-holder, D, substantially as shown in the drawings, in which—

A represents the usual wood-working-machine cylinder, having longitudinal grooves or slots C, receiving bolts or screws by means of which the planer-knives B are secured to said cylinder. This cylinder is usually of rectangular cross-section, and has one such groove C in each of its longitudinal sides, two of which are usually arranged for receiving the bolts for said planer-knives and the opposite slots for auxiliary tools.

D' is a socket having an angular aperture, a, for the reception of a planer-tool, L, Fig. 3. This socket is formed integral with a rib, E, having lateral projections or flanges F F and

a plate, I, having an aperture, j, for the reception of a screw-bolt, J, by means of which and the said flanges F F this tool-holder is secured to the cylinder A. The lateral projections or flanges F F are wedge-shaped or tapering toward their forward end, F', for the object hereinafter to be referred to.

In operation, the auxiliary tool L, be it a beading-chisel, a V-groover, or any other tool desired to be run together with or without the planer-knife B, is inserted into the socket D' and secured therein by means of a set-screw, K, as clearly shown in the drawings. This planer-tool L is preferably a trifle higher than the height of the aperture a in said socket D', so as to cause the upper surface of said socket a to bear upon the said tool L when the holder is passed into the cylinder-grooves C, and thereby to press the same tightly upon the surface b of said cylinder A, when the screw-bolt J may be tightened, and thus the holder secured to said cylinder A.

In planing matched stuff, where a bead as well as a false or imitation bead is run onto the boards at the same time that they are surfaced, it is necessary to change the position of the tool producing the false bead as often as the planer is changed for different widths of boards. This change is necessary in order to always place the false bead into the center of the board, and with the ordinary beading-tools requires and consumes quite a space of time, owing to the fact that with such tools adjustment must be made every time, not only for correct position, but also for proper cutting-depth of the beading-tool.

It will therefore be readily observed that when the part or rib E of my tool-holder is made a fair fit into the slotted aperture of the cylinder A, and the tool L secured into the socket D' after having been set for proper cutting-depth, this adjustment will be preserved when the entire holder is slid along in said groove C to any position upon the cylinder A, so that adjustment for position relative to the width of boards only need be made whenever the holder D, with its beading-tool L, is shifted.

In order to enable the sliding of the tool-holder upon the cylinder A, I have formed the lateral projections or flanges F wedge-shaped, so as to prevent their binding in said groove C.

It will be readily observed that the shape of the cutting-edge of the tool L contributes nothing toward the operation of this device, but is entirely non-essential. It follows, therefore, that this tool-holder is capable of being used not only in connection with a planer-cylinder, such as shown and described, but also in connection with or upon any molding-machine or other cylinder, &c., without change or modification, nor without departing from the spirit of my said invention.

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

1. As a new and improved article of manufacture, a tool-holder for planing-machine and other cylinders, consisting of a socket, D', a stem, E, having lateral projections or flanges F, and a plate, I, with an aperture, j, said

flanges F being wedge-shaped, as described, and the whole constructed for operation substantially as and for the use and purpose indicated.

2. A tool-holder for planing-machines, having a socket, D', with set-screw K, a stem, E, with lateral flanges F, a plate, I, with an aperture, j, and a fastening screw or bolt, J, substantially as described, said holder being adapted for use upon the cylinder of a planing and molding machine, substantially in the manner as and for the object specified.

In testimony that I claim the foregoing as my invention I have hereto set my hand in the presence of two subscribing witnesses.

PETER HITTEL.

Attest:

MICHAEL J. STARK,
JOHN C. DUERR.