

H. BARRY.
Tool-Holders for Sharpening.

No. 152,961.

Patented July 14, 1874.

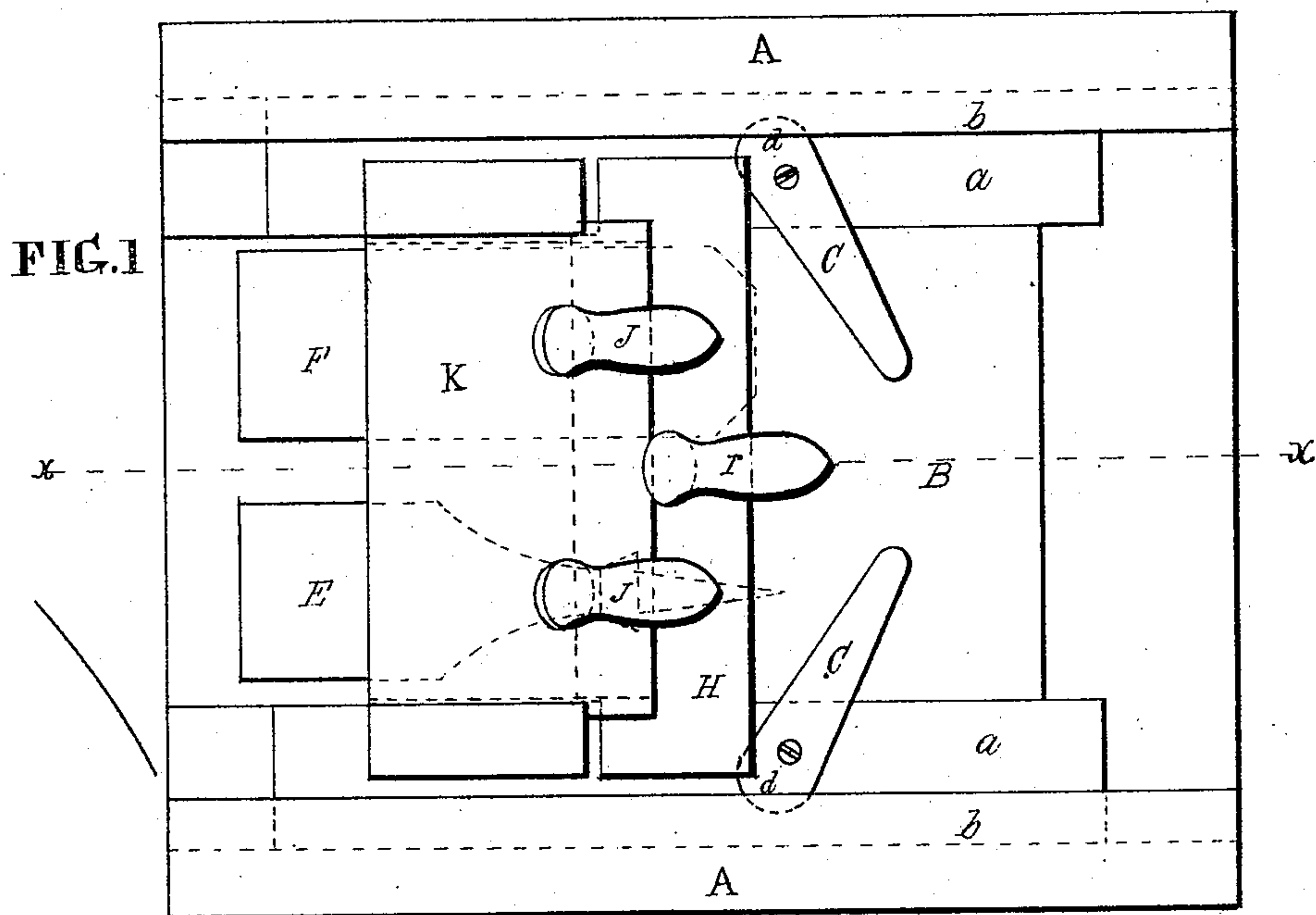


FIG. 2

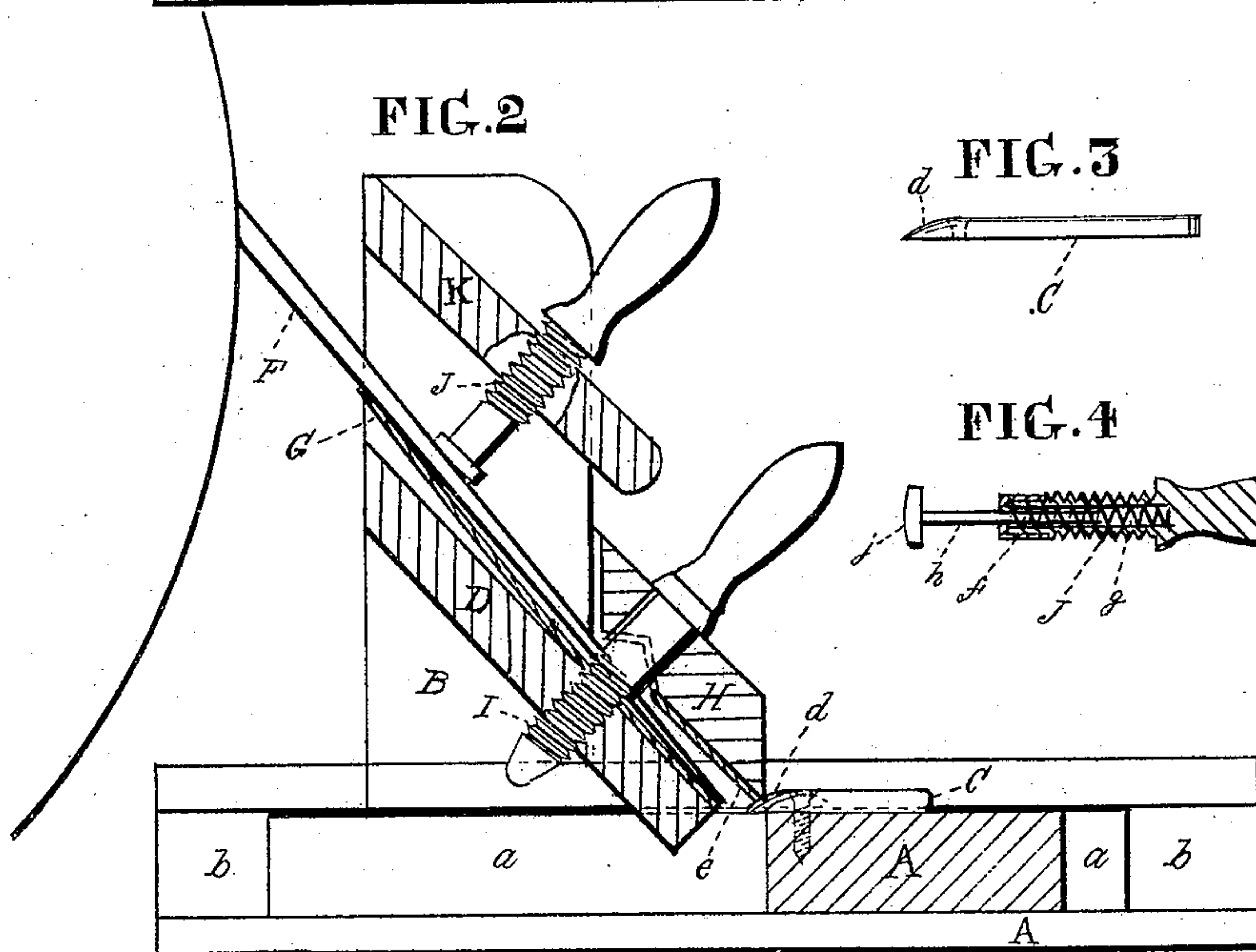


FIG. 3

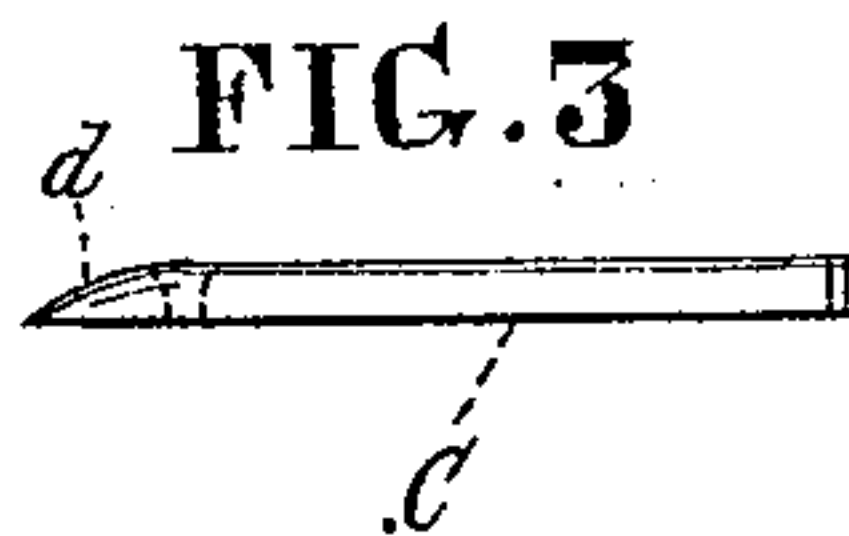
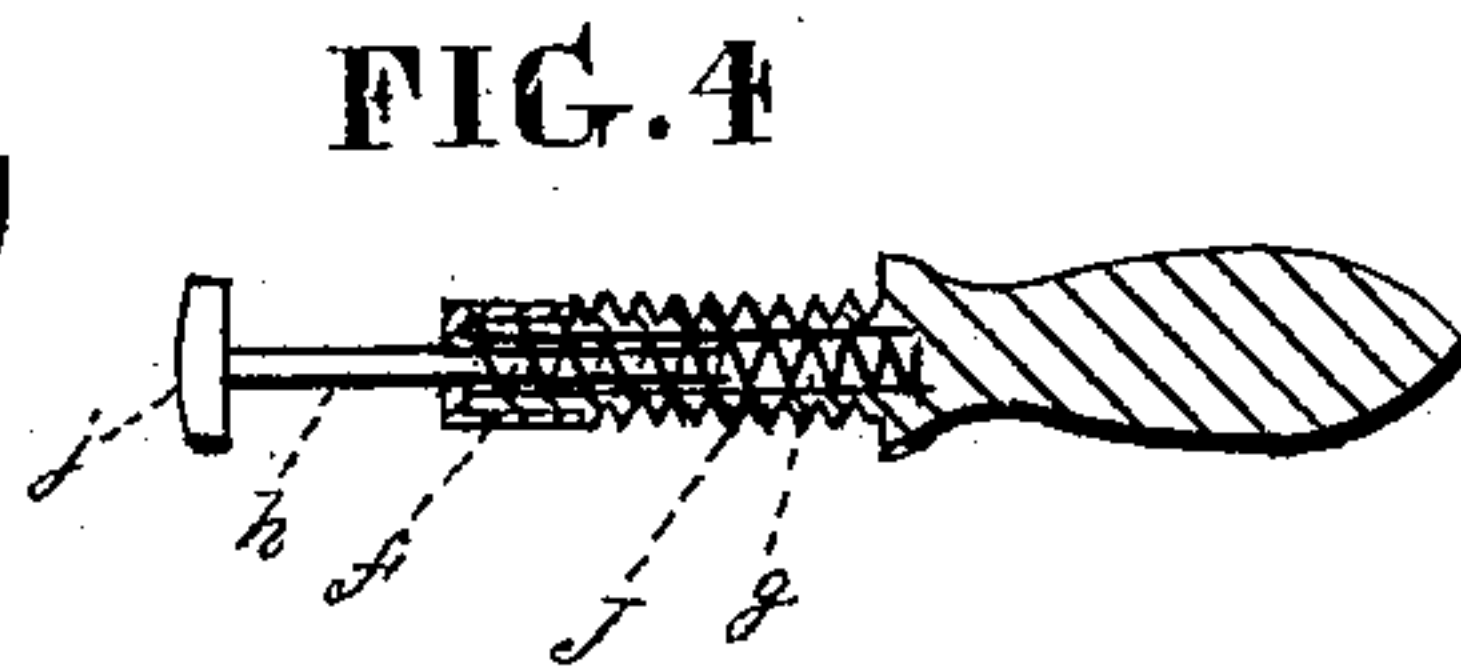


FIG. 4



Witnesses.
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HENRY BARRY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN TOOL-HOLDERS FOR SHARPENING.

Specification forming part of Letters Patent No. **152,961**, dated July 14, 1874; application filed May 16, 1874.

To all whom it may concern:

Be it known that I, HENRY BARRY, of the city and county of Philadelphia and State of Pennsylvania, have invented an Improvement in Tool-Holders for Grindstones, of which the following is a specification:

My invention relates to a sliding tool-holder for holding plane-bits and chisels to be ground. The holder is combined with a bed-plate which is fastened upon the frame of the grindstone, and is firmly held in any adjusted position by means of levers. It is provided with a spring-bed, upon which the tools rest, and tightening-screws, which are provided with rods actuated by springs in such a manner as to have a yielding force upon the tools. The latter, being thus held between spring devices, are held in an elastic manner against the grinding-surface of the stone, as hereinafter fully described.

In the accompanying drawings, Figure 1 is a plan view of the improved tool-holder B in connection with the bed-plate A. Fig. 2 is a vertical section at the line *xx* of Fig. 1. Fig. 3 is an edge view of one of the levers C. Fig. 4 is a longitudinal section of one of the screws J.

Like letters of reference in all the figures indicate the same parts.

A represents a bed-plate, which is fastened by means of screws or bolts, or other convenient devices to the upper side of the grindstone-frame. B is an adjustable sliding tool-holder, whose slides *a a* are moved in the grooves *b b* of the bed-plate, so as to bring the edges of the tool or tools to be ground to the grindstone. The tool-holder is held down firmly in its adjusted position upon the bed-plate by means of the levers C C, their inclines *d d* pressing hard under the upper sides of the grooves *b b*. D is a board or plate, arranged at any desirable angle for the support of the tool or tools to be ground. In the drawings, a chisel, E, and plane-bit F are shown, the chisel being more clearly seen in Fig. 2. In order to give an elastic support to the tools, I provide the board D with the metallic sheet G, which is confined at its lower edge by

means of screws or otherwise. The upper end has an elastic reactionary pressure against the lower side of the tools, as seen in Fig. 2. They are held down firmly at the lower edge of the board by means of the clamping-board H, which is confined thereon by the screw I, as clearly seen in Fig. 2. The under side of this board is plated with a metallic sheet, *e*. In order to get chisels in their position for grinding, the handles have to be removed. There is a longitudinal groove in the face of the clamping-board, and a corresponding groove in the face *e*, to come over the shank-collar of the chisels, to admit of the board being brought down flat upon the latter. The board D and spring-sheet G, if desired, may have like grooves for the same purpose. The tools are held down upon the resilient edge of the spring-sheet by means of screws J, which pass through the stationary board K, as seen in Fig. 2. In order to admit of the tools springing upward from the grindstone to suit any irregularities of its grinding-surface, I provide the screws J with springs *f*, which are arranged in the central socket *g* in the stem of the screw, as seen in detail in Fig. 4, the spring acting upon the rod *h*, provided at its lower end with the washer or button *j*. Hence, the tools being held between springs, they have the capacity of yielding from the stone, or of being pressed against it in a yielding manner, to suit any irregularities of the same. The screws will sometimes require to be forced farther down as the grinding proceeds.

I claim as my invention—

1. The combination of the screws J, having springs *f* and rods *h*, with the board K, for holding the tools in position to be ground, substantially as described.

2. The combination of the spring-sheet G and spring-rod *h*, substantially as and for the purpose specified.

HENRY BARRY.

Witnesses:

THOMAS J. BEWLEY,
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