

(No Model.)

J. BENESH.  
KNIFE SHARPENER.

No. 538,404.

Patented Apr. 30, 1895.

Fig. 1.

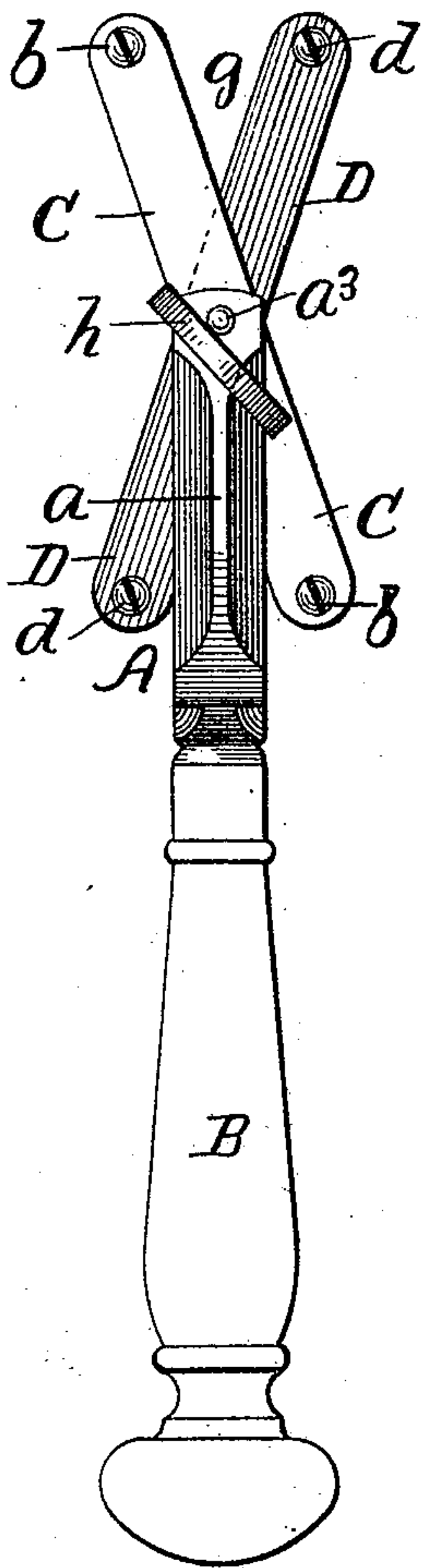


Fig. 2.

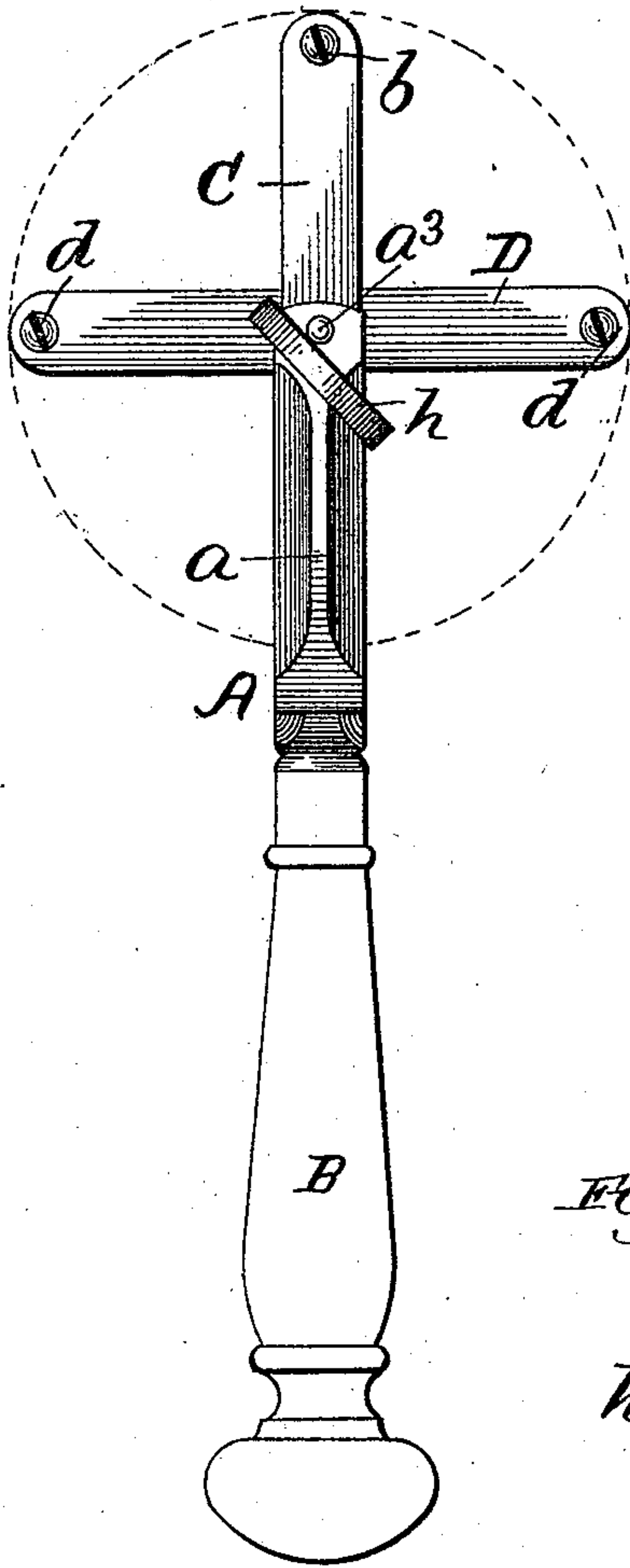


Fig. 3.

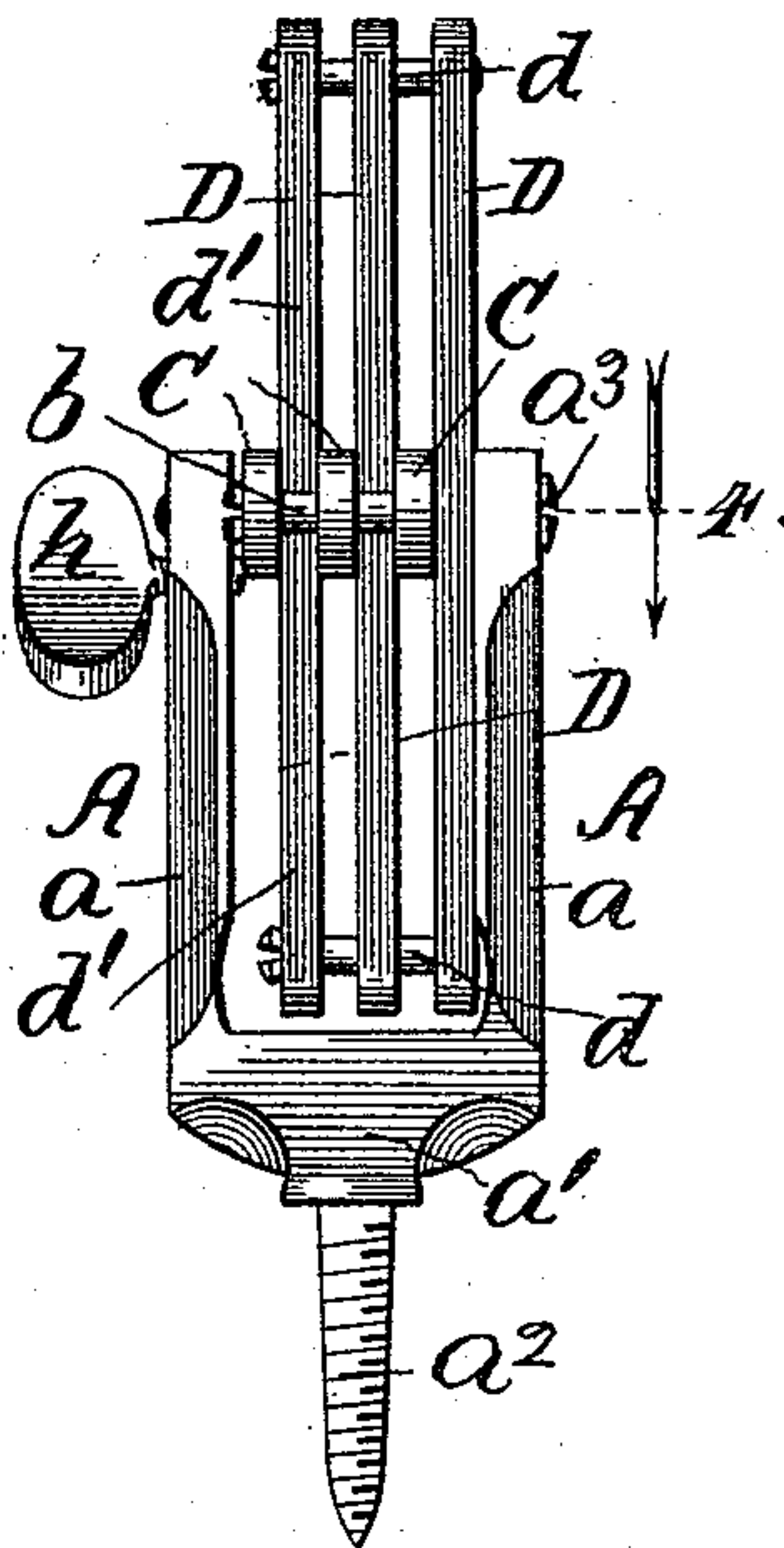
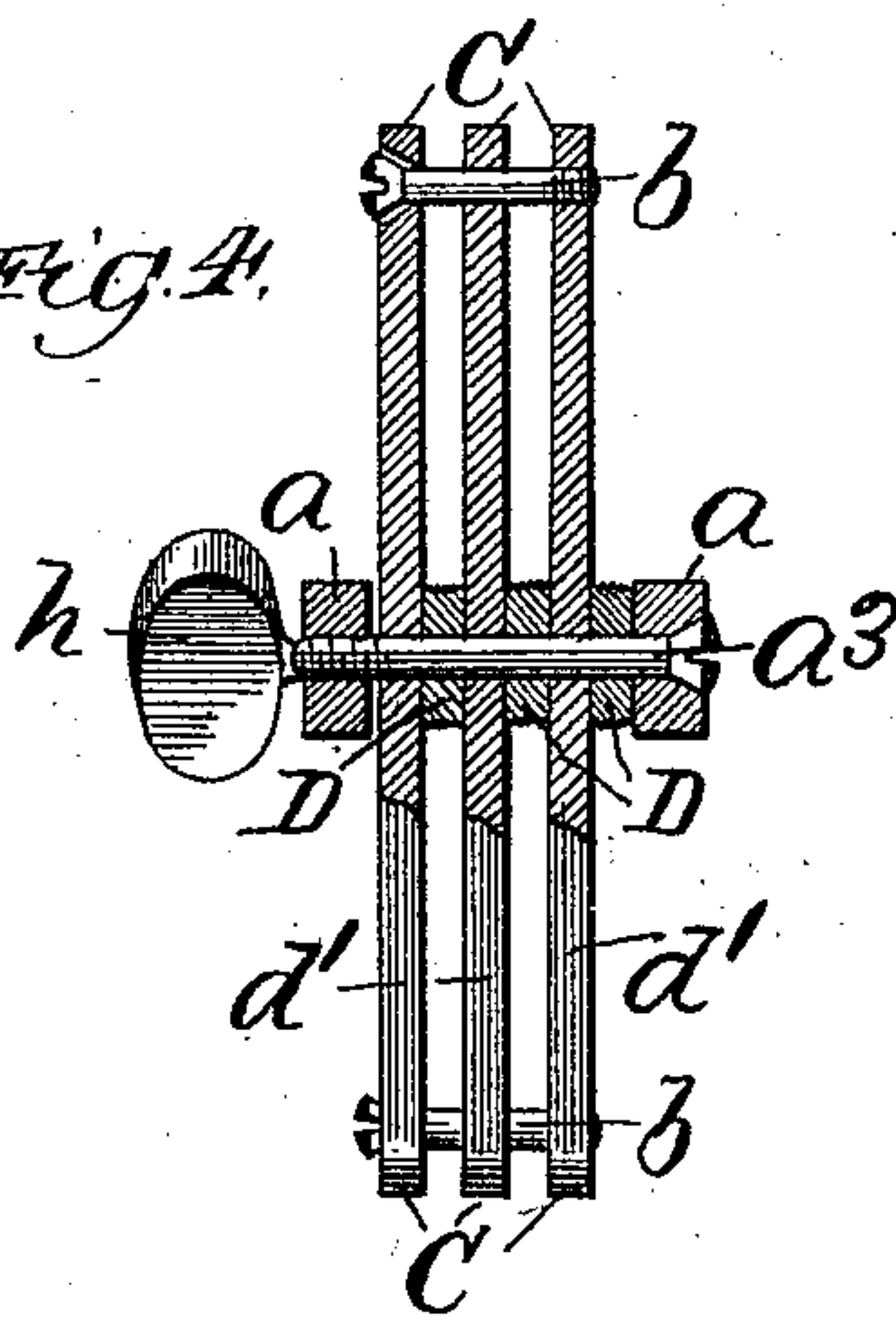


Fig. 4.



Witnesses:

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# UNITED STATES PATENT OFFICE.

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## KNIFE-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 538,404, dated April 30, 1895.

Application filed February 8, 1894. Serial No. 499,484. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH BENESH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Knife-Sharpeners, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to improvements in knife-sharpeners, and has for its object to provide a device of this character that will greatly facilitate the operation, as will be hereinafter set forth.

In the drawings, Figure 1 is a front elevation showing the sharpening-bars nearly folded together. Fig. 2 is a similar view showing the series of bars at right angles; Fig. 3, a side elevation, the handle being removed; and Fig. 4, a horizontal section on line 4, Fig. 3, looking in the direction indicated by the arrow.

A is a rigid head-piece, consisting of the two side framing-bars  $a$   $a$ , joined at their lower ends by the base  $a'$ . This base is also provided with a screw-threaded shank  $a^2$  for the reception of the handle B, having a screw-threaded socket in the engaging end. A number of sharpening-bars or plates consisting of a series C and a companion series D are alternately interlocked and inserted between the framing-bars of the head-piece and are mounted on a pivot-pin  $a^3$ , inserted through their longitudinal centers, on which they may be rotated together, or each series independently of the other, or one series held stationary while the companion series is being rotated.

The series of bars C are detachably connected at their respective ends by screw-pins  $b$   $b$ , and the series D by similar screw-pins  $d$   $d$ , thus retaining each series in parallel planes, so that the article being sharpened will have contact with the sharpening-surface of each bar. The sharpening-edges of the bars are serrated, as shown at  $d'$ , and present roughened or file surface with which the article is brought in contact in the process of sharpening.

By the arrangement shown the sharpening-bars may be rotated so as to bring them into

any desired angular position in accordance with the requirements of the particular article to be operated upon. In Fig. 1, the two series of bars are adjusted to present a contracted V-shaped notch  $g$ , through which the edge of the article to be sharpened may be drawn. The bars may be set at any particular degree of angularity required, in accordance with the thickness of the blade or the amount of bevel to be given to the sharpened edge thereof.

Both edges of the series of sharpening-bars are serrated so that when one edge is worn the other edges may be brought into adjacent relationship and service rendered until all are finally worn out; thus greatly increasing the sharpening-surface and the life of the device.

When the series of steel sharpening-bars are worn out, they may be replaced by new ones, using the same head-piece and thus saving on the original cost.

The bars are locked in any position they are capable of being adjusted to by a thumb clamping-screw  $h$ .

Ordinarily the device will be held in the hand when using the same, but when desired the handle may be removed and the screw-threaded shank inserted in some suitable supporting object, and the device held in a fixed position.

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

In a knife-sharpener, the combination with a rigid head-piece, consisting of two side bars and a base or cross-bar and provided with a suitable handle, of a number of sharpening-bars, divided into two series and alternately interlocked with reference to each other, a pivot-pin, inserted through both of said series of bars at their longitudinal centers and pivotally securing the same in said head-piece and adapting each series to be rotated independently of the other, the screw-pins connecting the respective ends of said bars, and a clamping-screw, for locking the same in a fixed position, substantially as described.

JOSEPH BENESH.

Witnesses:

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