

No. 662,535.

Patented Nov. 27, 1900.

C. H. JENKINS.

HAND VISE.

(Application filed May 22, 1900.)

(No Model.)

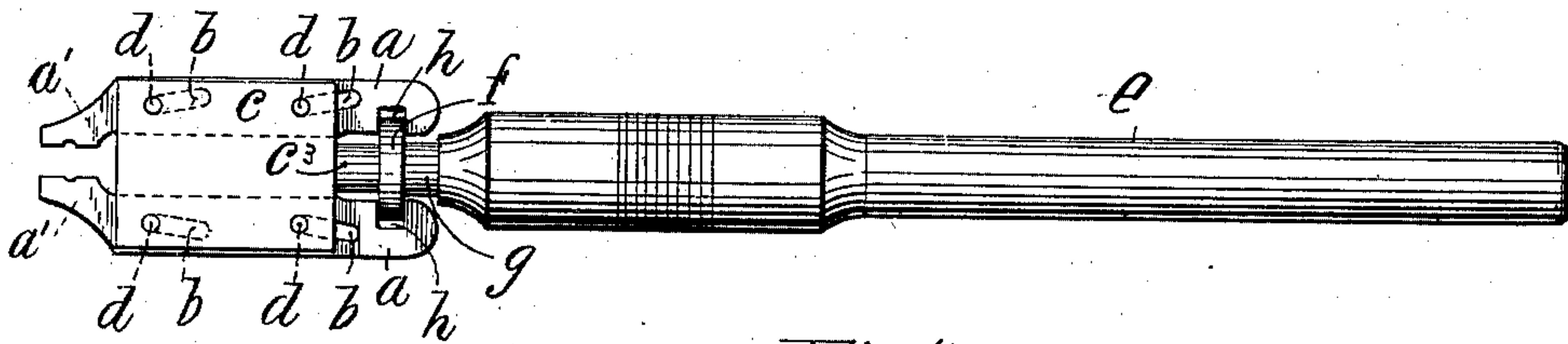


Fig. 1.

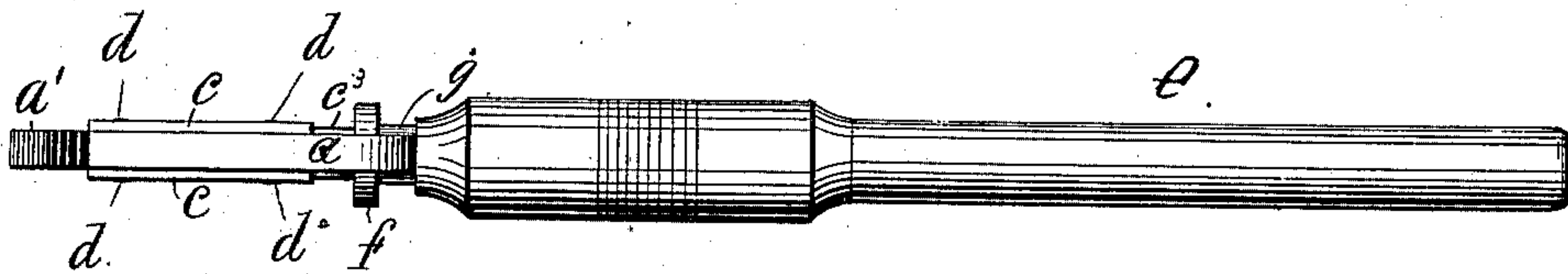


Fig. 2.

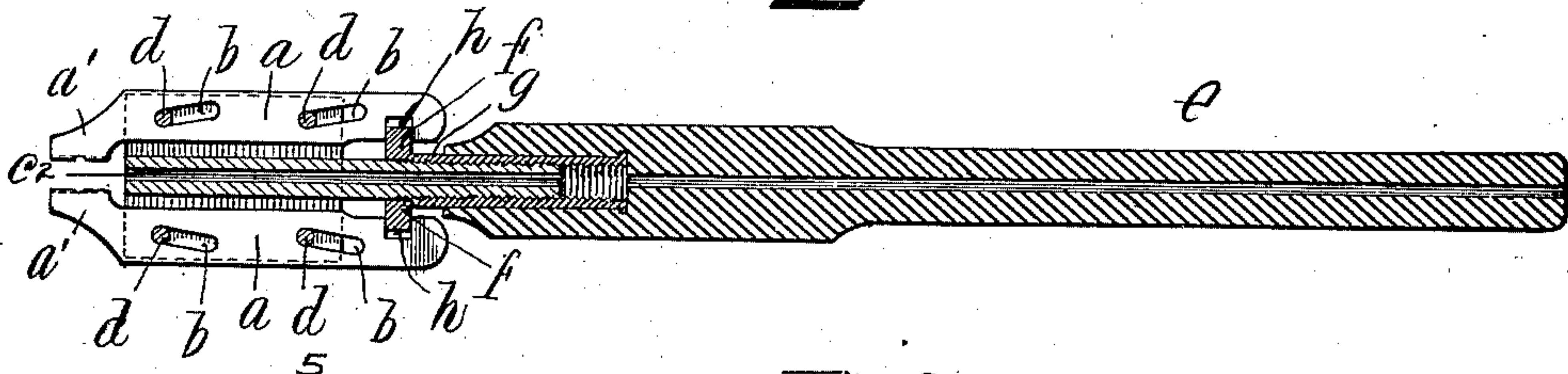


Fig. 3.

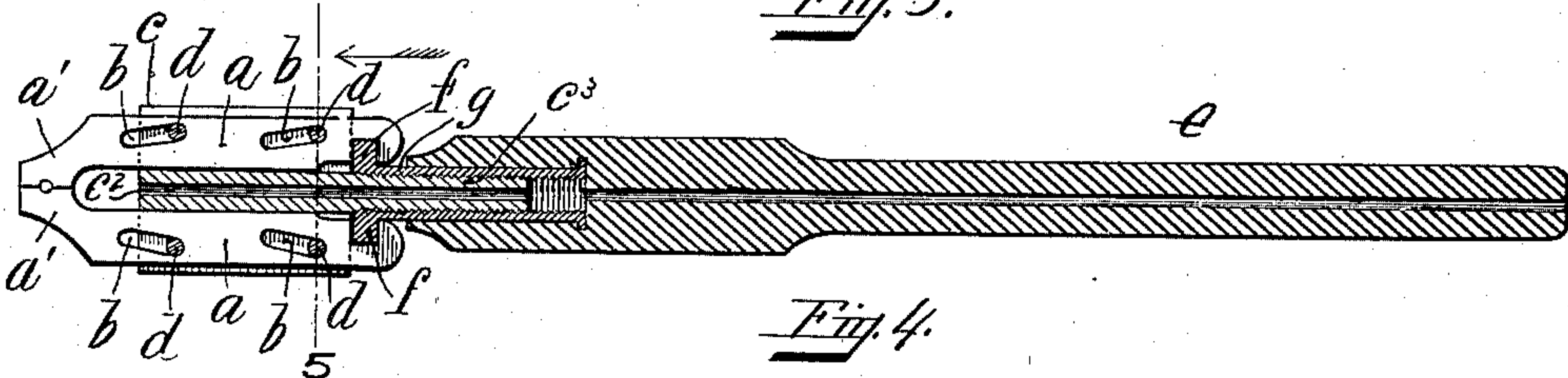


Fig. 4.

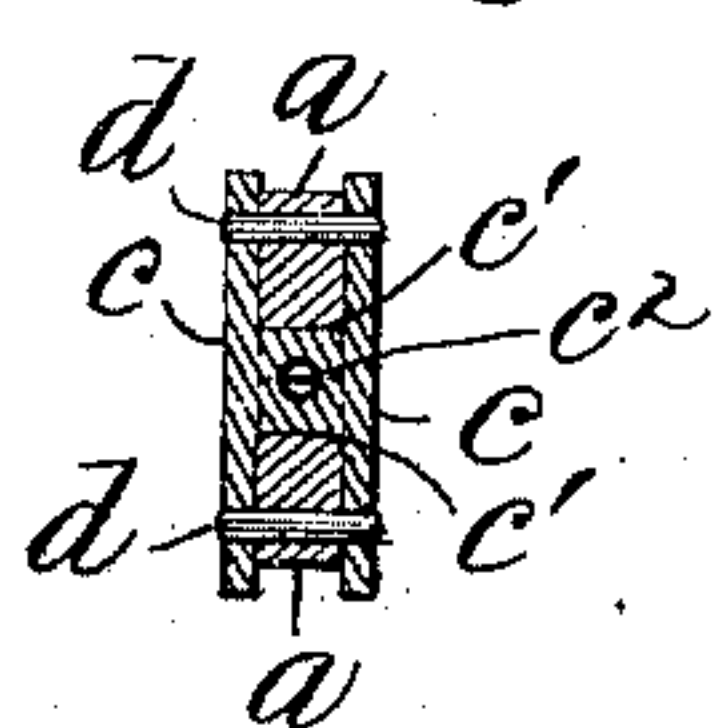


Fig. 5.

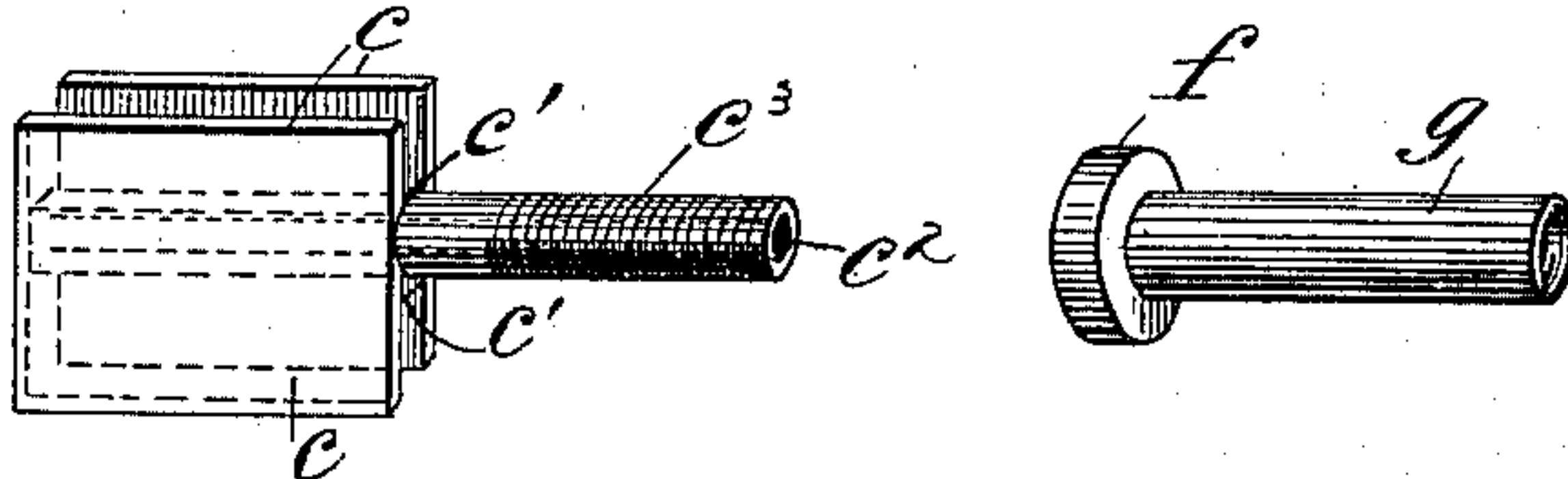


Fig. 6.

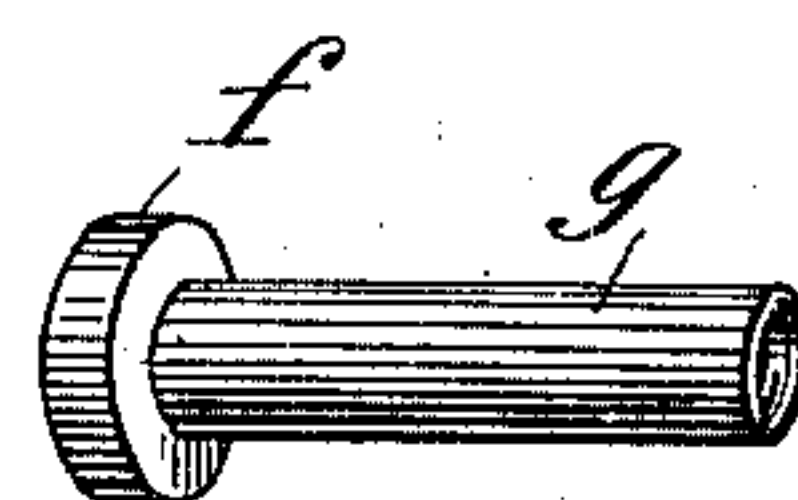


Fig. 7.

Witnesses:

Elizabeth Hogan

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UNITED STATES PATENT OFFICE.

CHARLES H. JENKINS, OF LEBANON, NEW HAMPSHIRE, ASSIGNOR OF ONE-HALF TO FRANK B. KENDRICK AND WILLIAM F. DAVIS, OF SAME PLACE.

HAND-VISE.

SPECIFICATION forming part of Letters Patent No. 662,535, dated November 27, 1900.

Application filed May 22, 1900. Serial No. 17,563. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. JENKINS, a citizen of the United States, and a resident of Lebanon, in the county of Grafton and State of New Hampshire, (and whose post-office address is Lebanon, New Hampshire,) have invented certain new and useful Improvements in Hand-Vises, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to improvements in hand-vises, and has for its object to provide a simple and efficient vise especially adapted for holding jewelers' pins, wire, and other like articles. It is not, however, hereby intended that the use of my new and improved vise is to be limited to the use above specified, as it is obvious that by reason of its peculiar construction it may be used to great advantage whenever it is desired to hold any article whether of a round body or shape or otherwise with the greatest firmness.

The invention consists of the novel features of construction hereinafter set forth and described and more fully set forth in the claim hereto appended.

Referring to the drawings, Figure 1 is a side elevation showing the jaws open. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal section showing the jaws open. Fig. 4 is a similar view with the jaws closed. Fig. 5 is a view of a cross-section taken on the line 5 5 of Fig. 4 looking in the direction of the arrow. Fig. 6 is a perspective view of the block with screw-threaded projection, and Fig. 7 is a perspective view of the collar with screw-threaded extension.

Like letters of reference refer to like parts throughout the several views.

$a a$ denote parallel jaws, preferably made of metal, each jaw being provided with two parallel oblique slots $b b$, and c a block, also preferably made of metal, in which block said jaws are movably arranged.

$a' a'$ denote the gripping-faces of the jaws, and $c' c'$ grooves in the block c . The block c is provided with a central opening c^2 and an exteriorly-screw-threaded hollow projection c^3 .

$d d$ denote pins corresponding in number

and location with the slots $b b$ and fixed in the block c and passing through said slots.

e is a hollow rotatable handle made of suitable material, preferably gutta-percha, and f is a collar made, preferably, of metal and provided with an interiorly-screw-threaded extension or socket g , which latter is securely attached to the handle e by any convenient means, as shown in the drawings, Figs. 3 and 4, and which is adapted to receive and engage with the screw-threaded projection c^3 . The inner ends of the jaws $a a$ are provided with notches $h h$, which embrace the collar f , whereby a positive connection between the said jaws and the handle e is made.

It is not hereby intended to limit the invention to a vise provided with jaws having but two pairs of slots and pins corresponding therewith, as above described, for it is obvious that more than two pairs of slots, with their corresponding pins, may be used without departing from the spirit of my invention.

The mode of operation of the device in so far as it has not been disclosed is as follows: The jaws being open, as shown in the drawings, Figs. 1 and 3, and it is desired to hold, for example, a piece of wire by the vise, the wire is inserted in the opening c^2 of the block c and the block c held in one hand and the handle e rotated to the right by the other. This causes the collar f , with its screw-threaded extension, to travel forward on the screw-threaded projection c^3 , and thus force the jaws toward each other by a lengthwise parallel movement until stopped by the wire between the faces of the jaws.

The operation of releasing the wire or other article is the reverse of that above described.

The construction above set forth is simple and at the same time very efficient, in that the article is held with very great force by reason of the great leverage exerted by the rotating collar in positive engagement with the jaws.

What I claim, and desire to secure by Letters Patent, is—

A hand-vise, having parallel jaws provided with pairs of oblique slots, a block in which the said jaws are arranged and engaging said jaws

through the medium of pins passed through
said slots, and having a screw-threaded ex-
tension, and a rotatable handle having a col-
lar *f* in positive engagement with the jaws,
5 and a screw-threaded socket to receive and
engage the screw-threaded projection of the
block, substantially as described.

In witness whereof I have hereunto affixed
my signature, this 15th day of May, A.D. 1900,
in the presence of two witnesses.

CHARLES H. JENKINS.

Witnesses:

F. H. HOSFORD,
E. L. CHOATE.