

(No Model.)

A. F. BARNEY.
BLIND OPERATOR AND LOCK.

No. 564,180.

Fig. 1 Patented July 21, 1896.

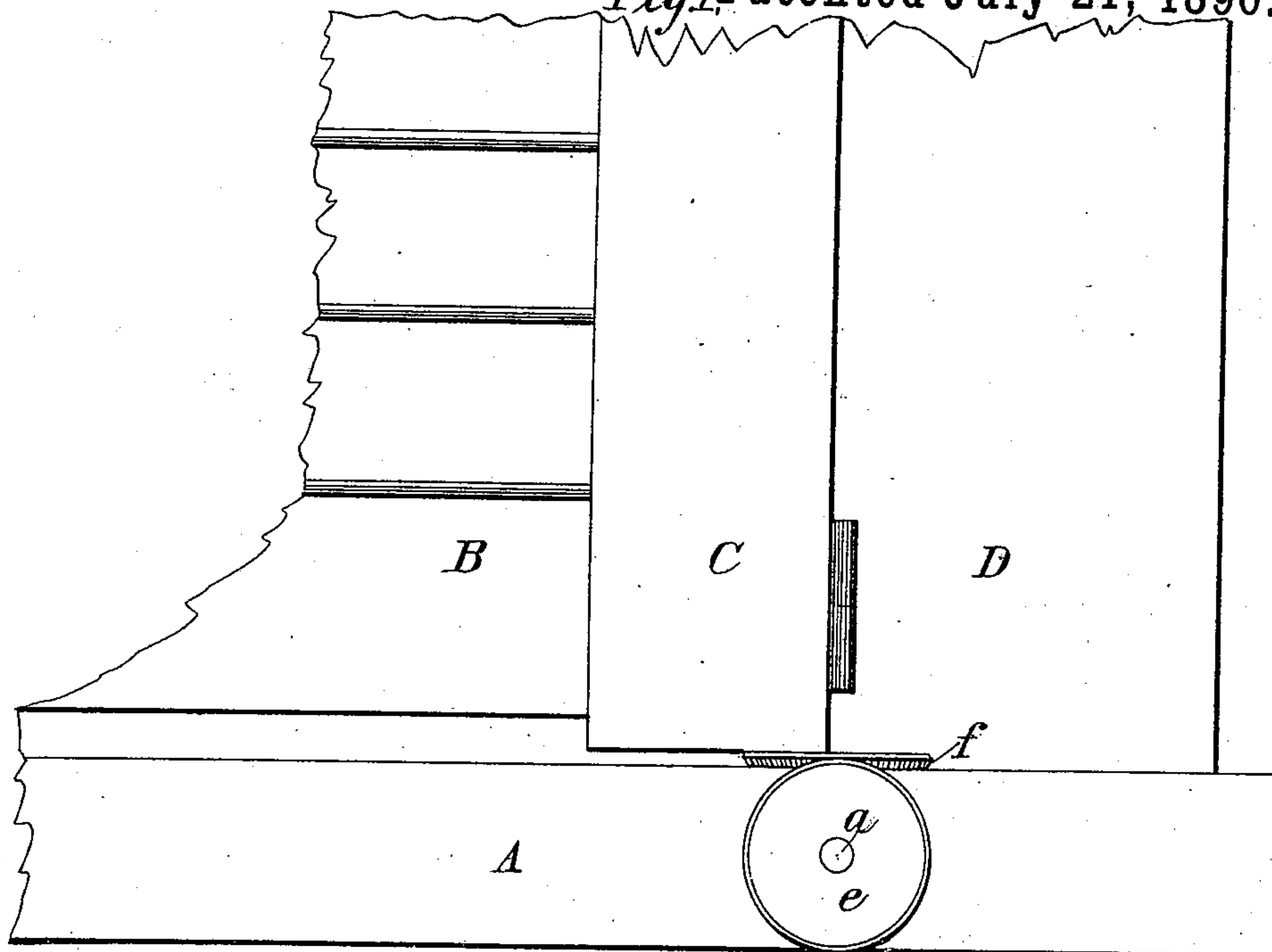


Fig. 2.

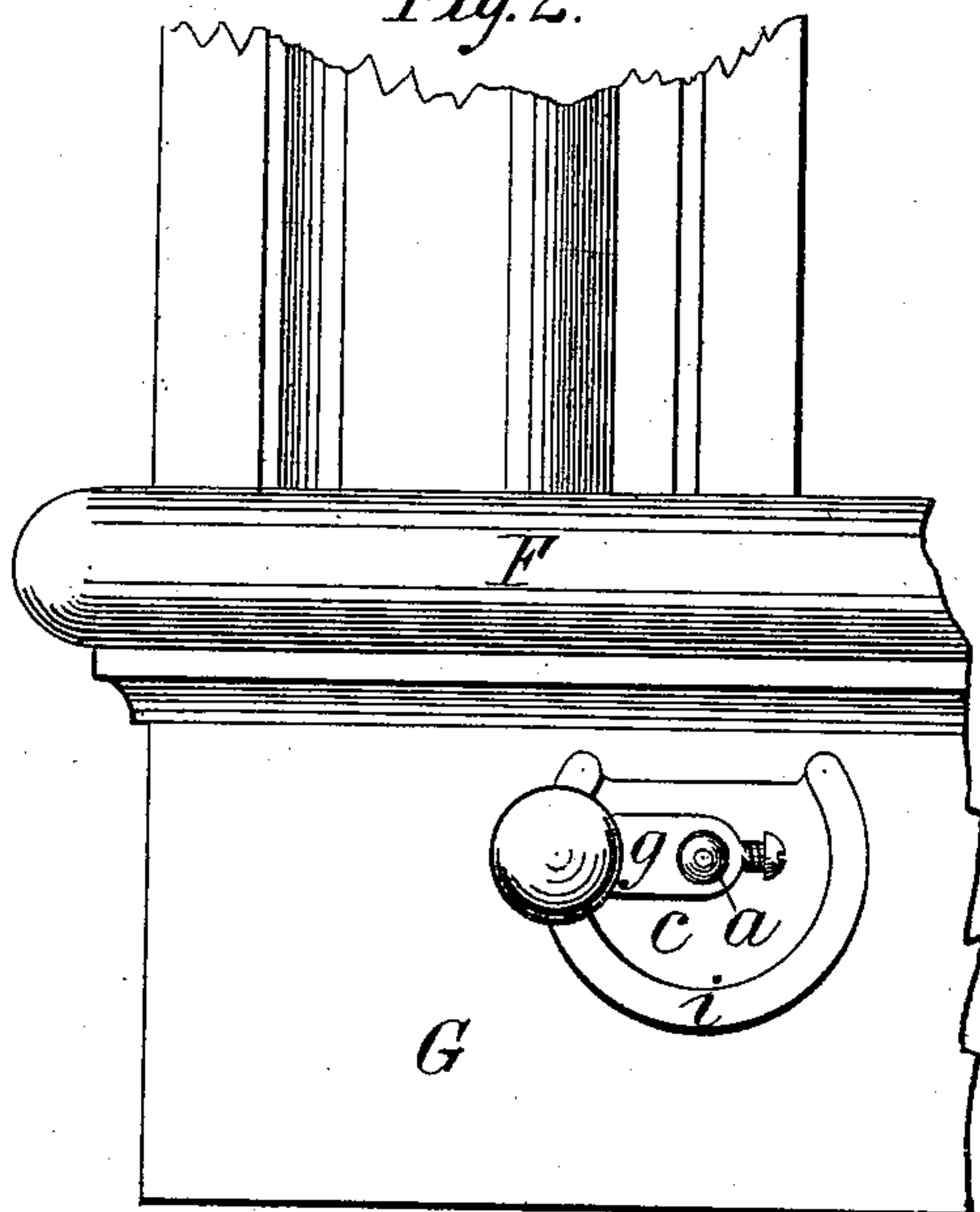


Fig. 4

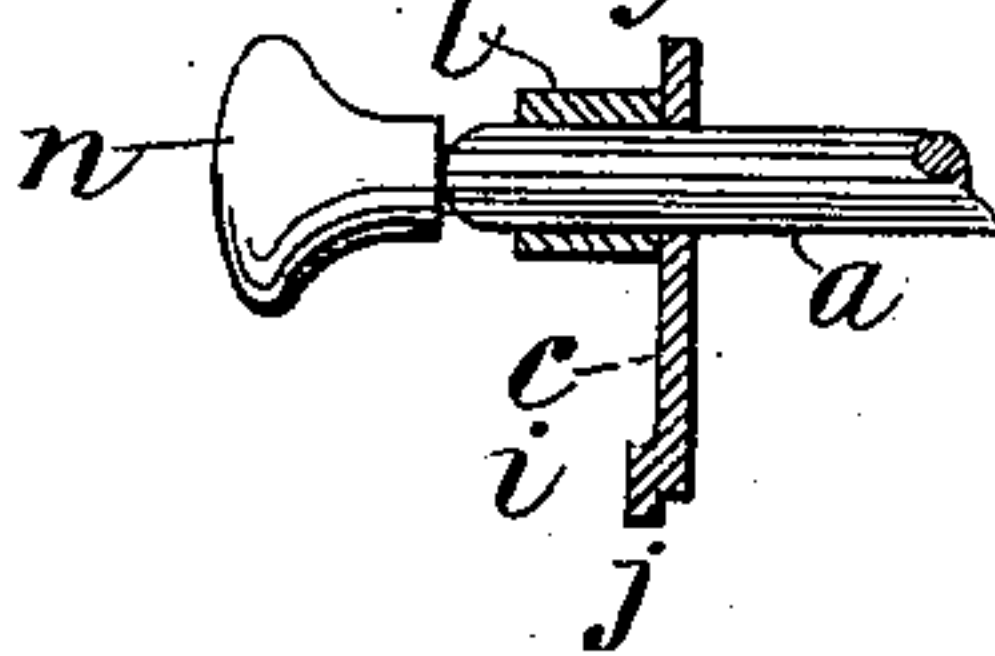
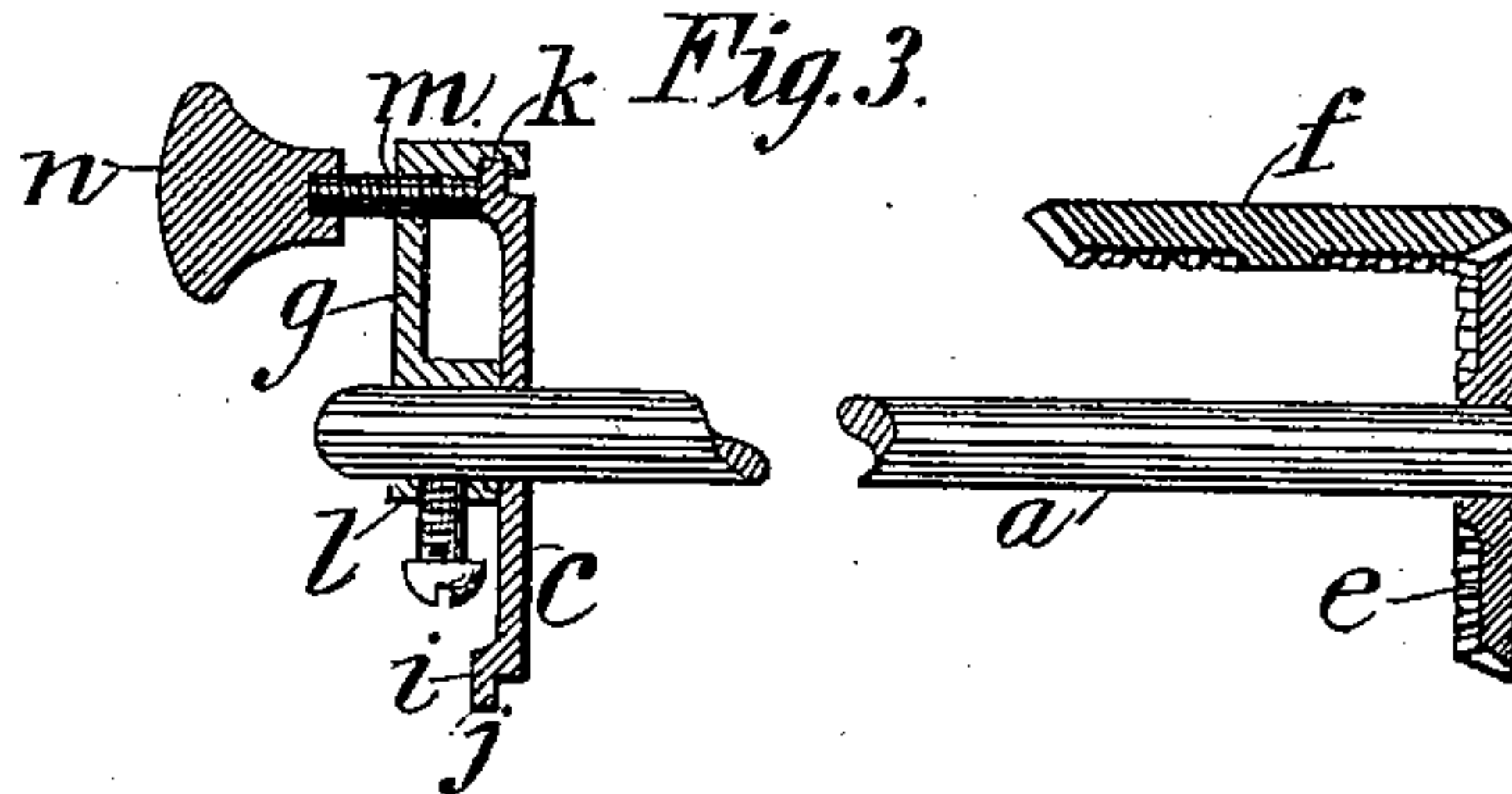


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

ALBERT FRANCES BARNEY, OF LACONIA, NEW HAMPSHIRE.

BLIND OPERATOR AND LOCK.

SPECIFICATION forming part of Letters Patent No. 564,180, dated July 21, 1896.

Application filed October 19, 1895. Serial No. 566,279. (No model.)

To all whom it may concern:

Be it known that I, ALBERT FRANCES BARNEY, a citizen of the United States, residing at Laconia, in the county of Belknap and State of New Hampshire, have invented a new and useful Blind Opener and Lock or Fastener, (combined,) of which the following is a specification.

My invention relates to improvements in blind operators and locks or fasteners therefor, (combined;) and the objects of my improvements are, first, to produce a device which can be operated for both purposes from the inside of the house and without opening the window; second, to produce a blind-lock which can be securely locked inside and cannot be operated or unlocked from outside; third, to secure such a device as can be made at low cost, can be easily and readily attached and operated, will be durable, and make unnecessary any other fastening or operating device. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 shows a front view of my device from the outside. Fig. 2 shows an inside front view of my device. Fig. 3 shows a longitudinal vertical section, and Fig. 4 a detail section, of the end of shaft-crank and thumb-screw.

A, Fig. 1, represents the outside of the window stool or sill; B, a section of the outside of a blind, closed; D, a section of the outside of the house to which the blind B is hinged; while in Fig. 2 F represents a section of the inside of the window-stool cap, and G a section of the surbase under the stool-cap.

In constructing my invention I first make the shaft *a* of suitable size, depending somewhat on the size and weight of the blind to be operated on, and of sufficient length to pass from the outside of the gear *e* through the stool A and through the plate *c* and the hub of the crank *g*. On the outer end of said shaft *a* I secure a bevel or miter gear *e* by means of a set-screw or spline. On the lower part of the blind-stile *c* I secure another bevel or miter gear *f* of same size and bevel as gear *e* by means of a wood-screw passing through said gear *f* and up into said stile *c*, so as to mesh into and be operated by said gear *e*.

The center of said gear *e* must be on the same vertical line as the center of the hinge of the blind. On the inner end of shaft *a* is secured a crank *g* by means of a set-screw or spline to prevent said crank from turning on shaft *a* and causing shaft *a* to turn when crank *g* is turned. Between said crank *g* and the surbase G of the window is secured on said surbase a cup-shaped or sunken plate *c*. By means of screws said plate has raised on its outer surface a segment of a circle *i*, which has on top of said segment an overhanging flange *j*, (see Fig. 3,) made to fit and work in the slot or recess *k*, which is made in the outer end of crank *g*. The hub *l* of crank *g* I make of sufficient thickness to give space between said flange *j* of plate *c* and said crank, and at the same time have said hub constitute a collar against plate *c* to keep the shaft *a* from sliding outward. To prevent the shaft *a* from sliding inward I secure thereon a collar between the inside of the bevel-gear *e* and the outside of the stool. (Not shown in the drawings.) In the outer end of the crank *g* I make a hole *m*, with a screw-thread cut therein, into which I fit to work a thumb-screw *n*, to pass therethrough and work against said segment *i*. Said thumb-screw also acts as a handle by which the crank is operated.

I operate my invention as follows, to wit: I turn out the thumb-screw sufficiently to unlock or set free the crank *g* from the segment *i*, after which I turn by means of the crank the shaft *a* and with it the gear *e*, which moves the gear *f*, and with it the blind, to any desired position at which it can be locked or fastened by turning in the thumb-screw against the flange to unite the segment and crank sufficiently to hold by friction thereof the blind in position.

I am aware that other blind-operators have been heretofore patented which contain parts similar to some parts of my new device. I make no claim to such parts, my invention being confined strictly to a new combination of certain specific elements or parts, each constructed substantially as herein specified, and having the mode of operation and possessing the functions stated, when arranged and combined as a unit, for the purposes aforesaid. As such

I claim—

A blind-operator consisting of the shaft *a*,
two gears *e* and *f* when combined to operate
with the plate *c* having guide-flange *j*, the
5 lever *g*, having the recess *k*, engaging the
flange *j* and the combined handle, and set-
screw in the lever *g*, and adapted to impinge

against said plate *c*, whereby the shutter may
be held at any desired angle.

ALBERT FRANCES BARNEY.

Witnesses:

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H. W. CAREY.