

2 Sheets. Sheet 1.

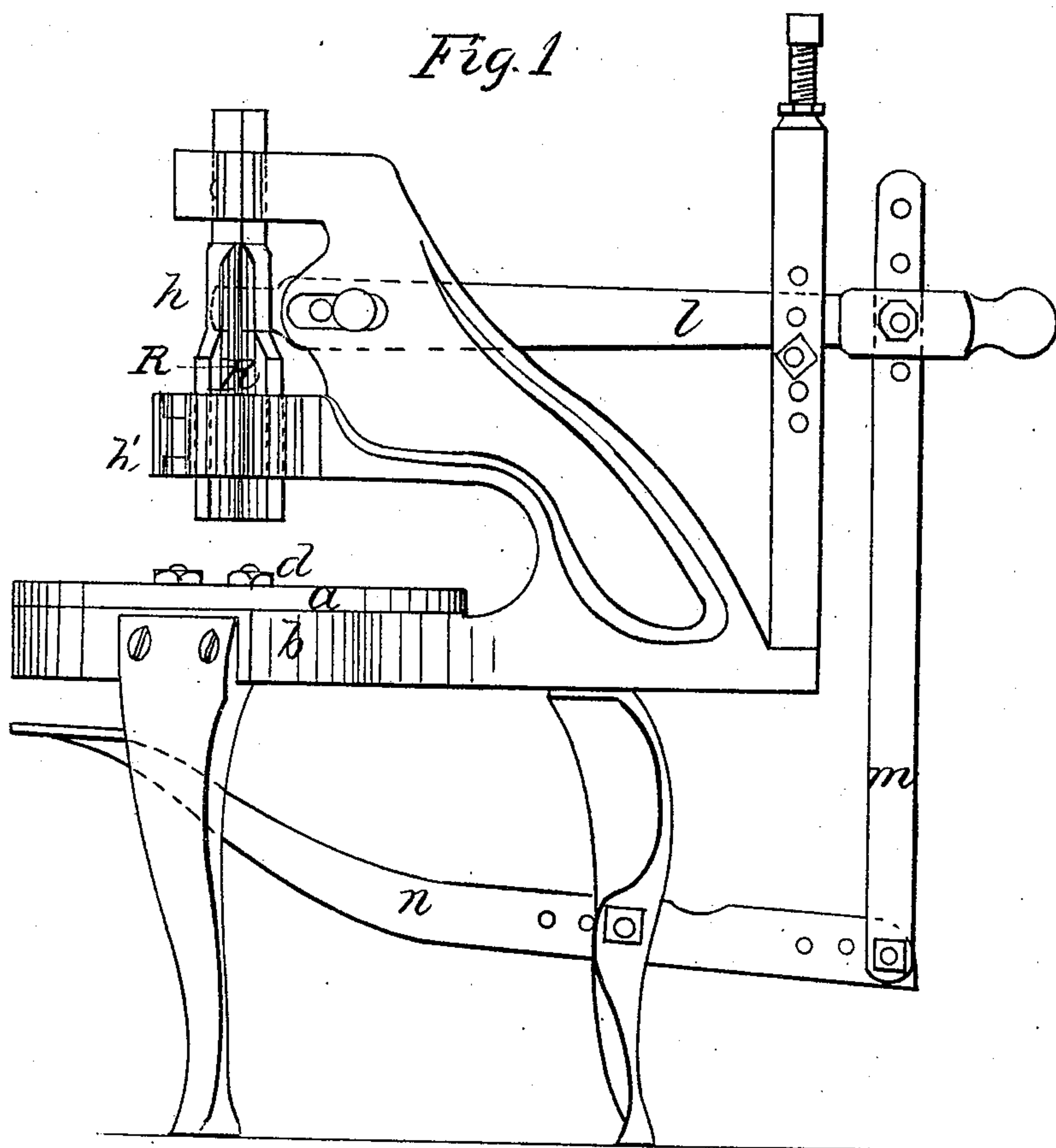
J. E. Connor,

Sheet Metal Die.

N^o 79,637.

Patented July 7, 1868.

Fig. 1



Witnesses:

D. Smith

L. E. Jones.

Inventor:

James E. Connor

by Atty Geo. T. Everett

J. E. Connor,

2 Sheets, Sheet 2.

Sheet-Metal Die:

N^o 79,637.

Patented July 7, 1868.

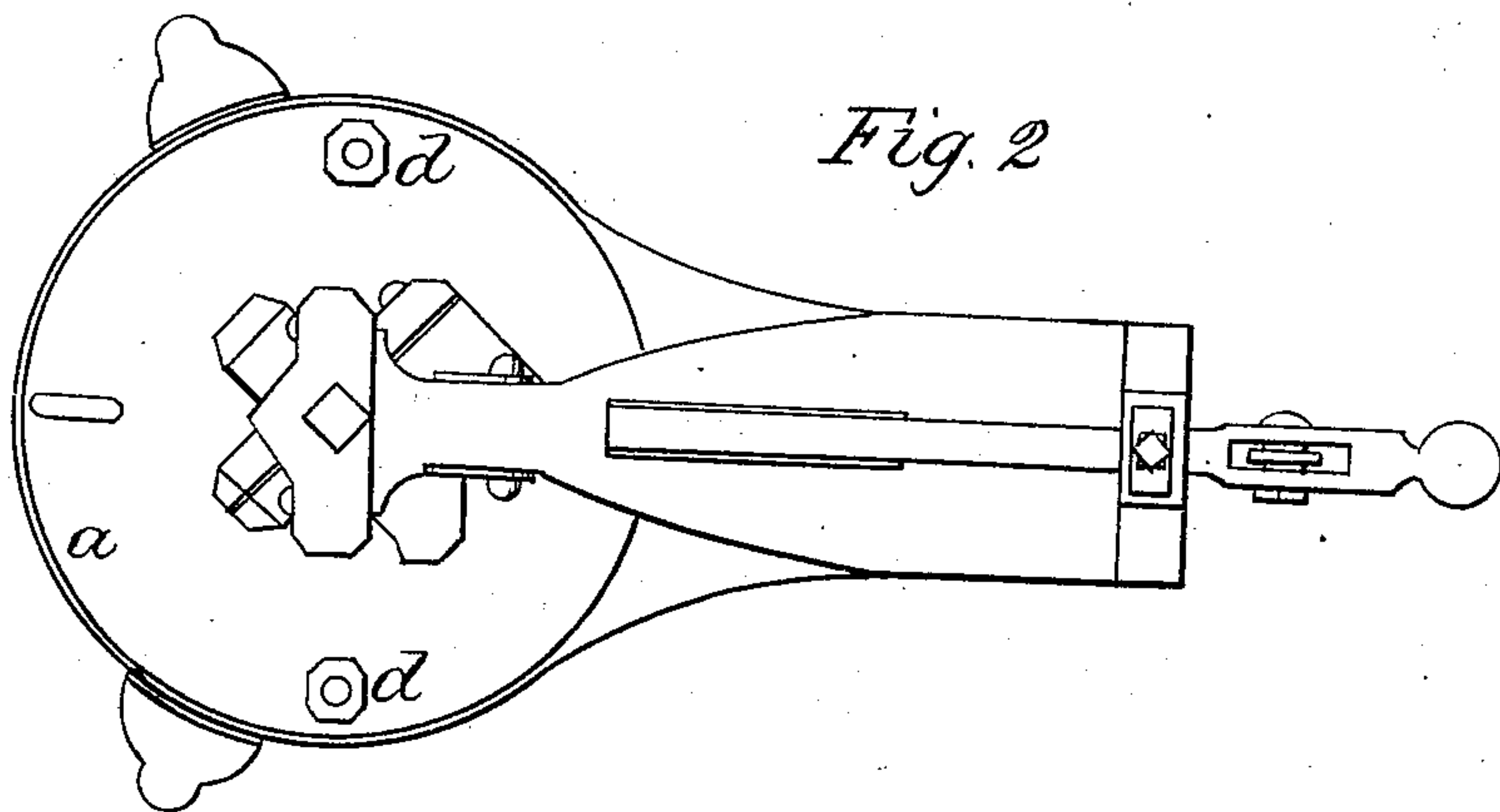


Fig. 2

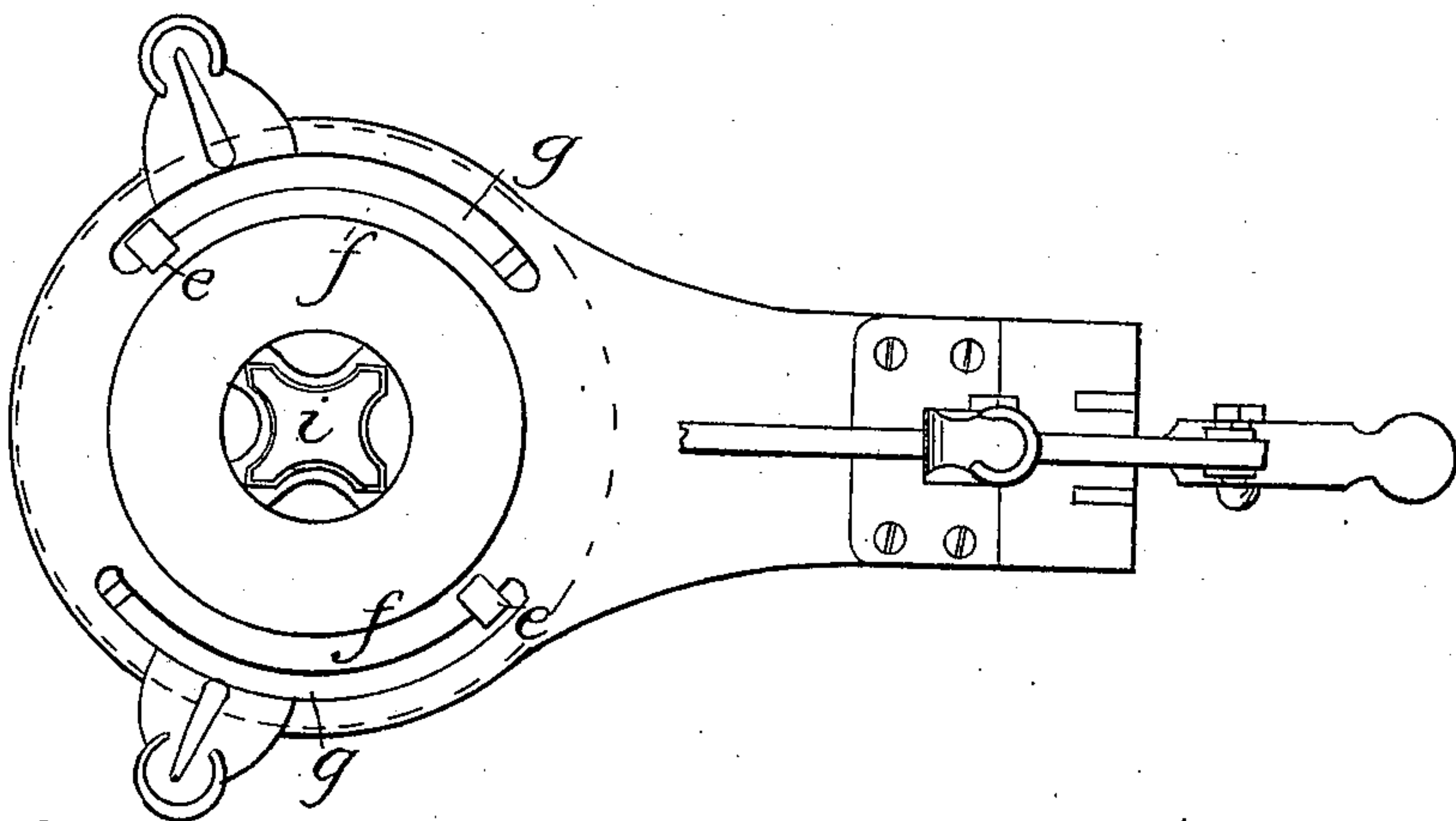


Fig. 3.

Witnesses:

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United States Patent Office.

JAMES E. CONOR, OF BROOKLYN, NEW YORK.

Letters Patent No. 79,637, dated July 7, 1868.

IMPROVEMENT IN PRESSES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES E. CONOR, of the city of Brooklyn, in the State of New York, have invented a certain new and useful Improvement on Lever-Presses for manufacturing tin-ware; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings and to the letters and marks thereon, which said drawings form part of this specification, and show a lever-press, and parts thereof, constructed under my invention—

Figure 1 being a side view,

Figure 2 a top view, and

Figure 3 a bottom view of such press.

In all these figures, where like parts are shown, like marks and letters are used to indicate the parts.

In presses of this kind, it is very important that the dies for punching, cutting out, and swaging the sheet metal into form, should be accurately adjusted and fitted to the mandrel and to the bed. It is also important that the mandrel be worked true and smooth in its bearings or supporting heads.

In cutting out irregular forms, it is desirable that the bed, on which rests the lower die, be so constructed and arranged that it may be turned or rotated on the frame-plate or arms supporting it, so that the lower die may be accurately adjusted to the upper die attached to the mandrel, and perfect and smooth cutting and swaging thereby produced.

The bed *a* of this press is connected to the frame-plate or arms *b* by screw-bolts *c* and nuts *d*, the lower ends *e* of the bolts being flanged, so that they lap over the inner edge *f* of the curved slots *g* in the frame-plate *b*.

Two screw-bolts and two slots are shown by the drawings, but there may be three or four.

This manner of attaching the bed to the plate or arms of the machine allows of its being moved around entirely or rotated, and the lower die perfectly adjusted to the upper die, without disturbing the connections between the die and the bed, as simply detaching the nuts and bolts leaves the bed free to be moved in any direction. The mandrel *h* has a broad face, *i*, and broad bearing in the lower head *j*, but is narrowed or contracted above, so that its upper end is much smaller than the lower. A saving in metal is thus effected, and less friction produced in the upper head than if the mandrel were of the same width above as below. The sides of the mandrel working in the lower head are recessed, *k*, for the fitting therein of the inner surfaces of the head, so that very true and smooth working of the mandrel is insured. The mandrel is operated by the lever *l*, upright bar *m*, and treadle *n*, as is very clearly shown by fig. 1 of the drawings.

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

The arrangement of the bed *a* upon the plate *b* of the machine, and the mandrel *h* in the upper and lower heads, with the levers for operating the mandrel, as herein set forth.

This specification signed, this 21st day of April, 1868.

JAMES E. CONOR.

Witnesses:

THOS. T. EVERETT,

T. SMITH.