

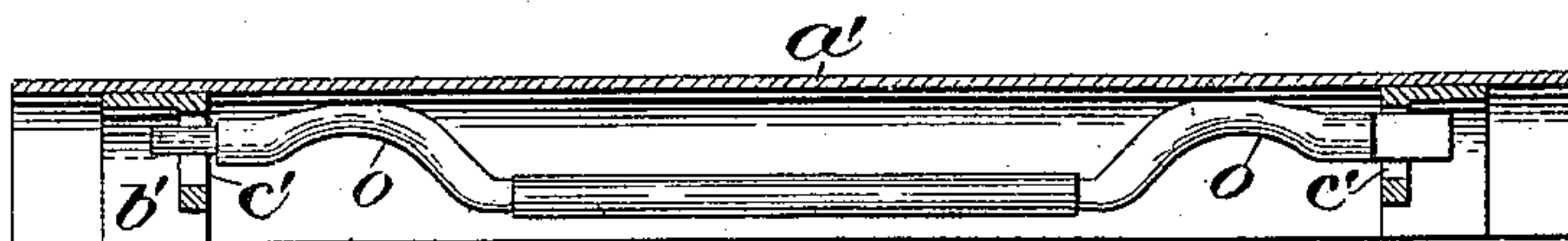
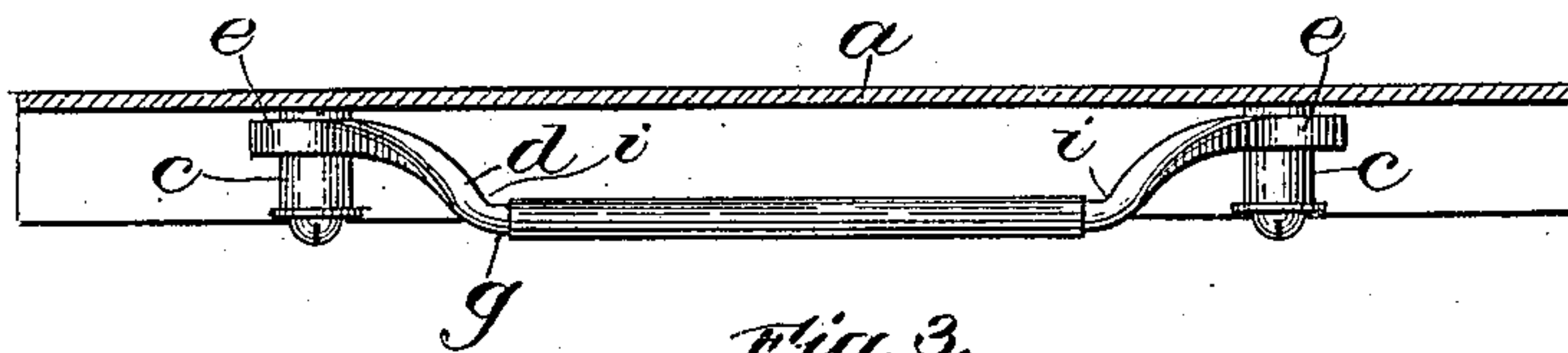
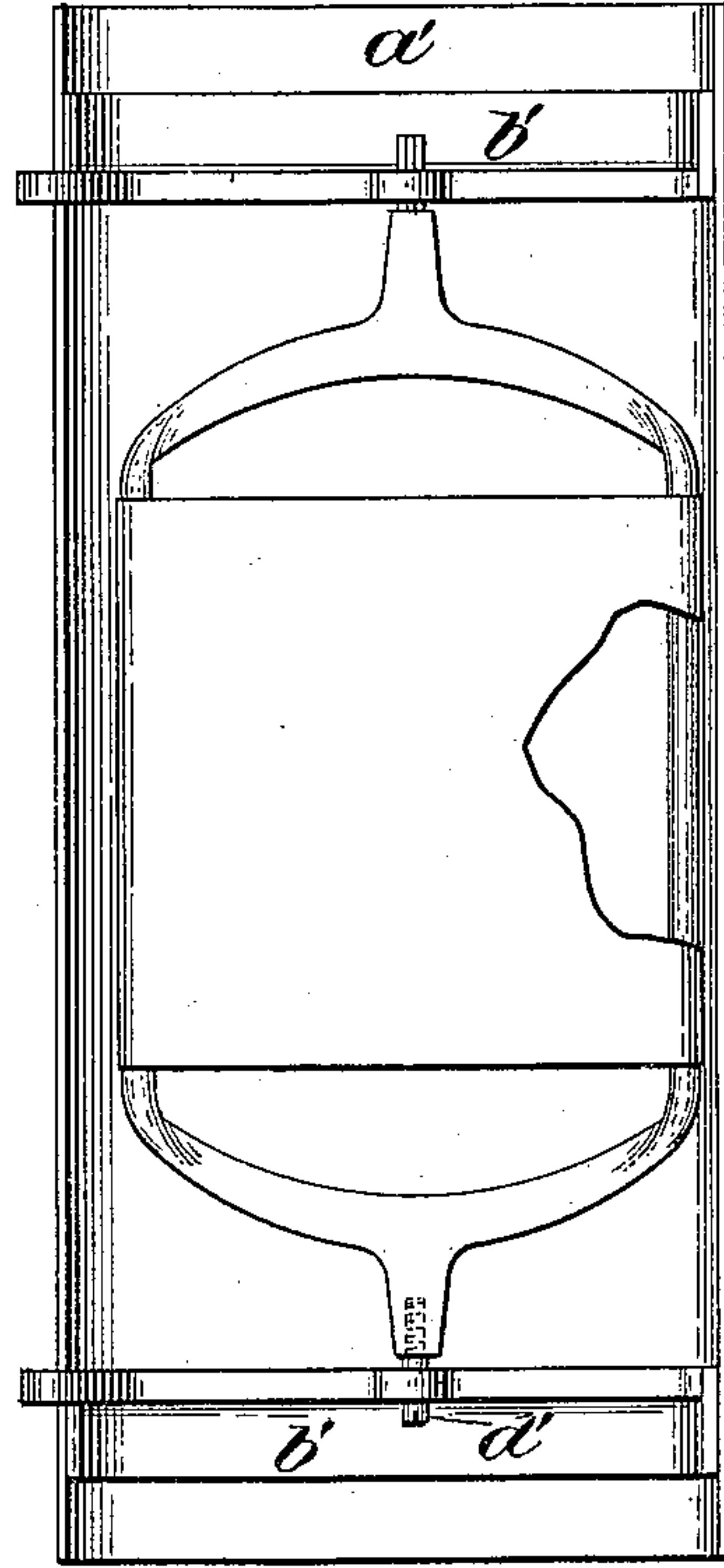
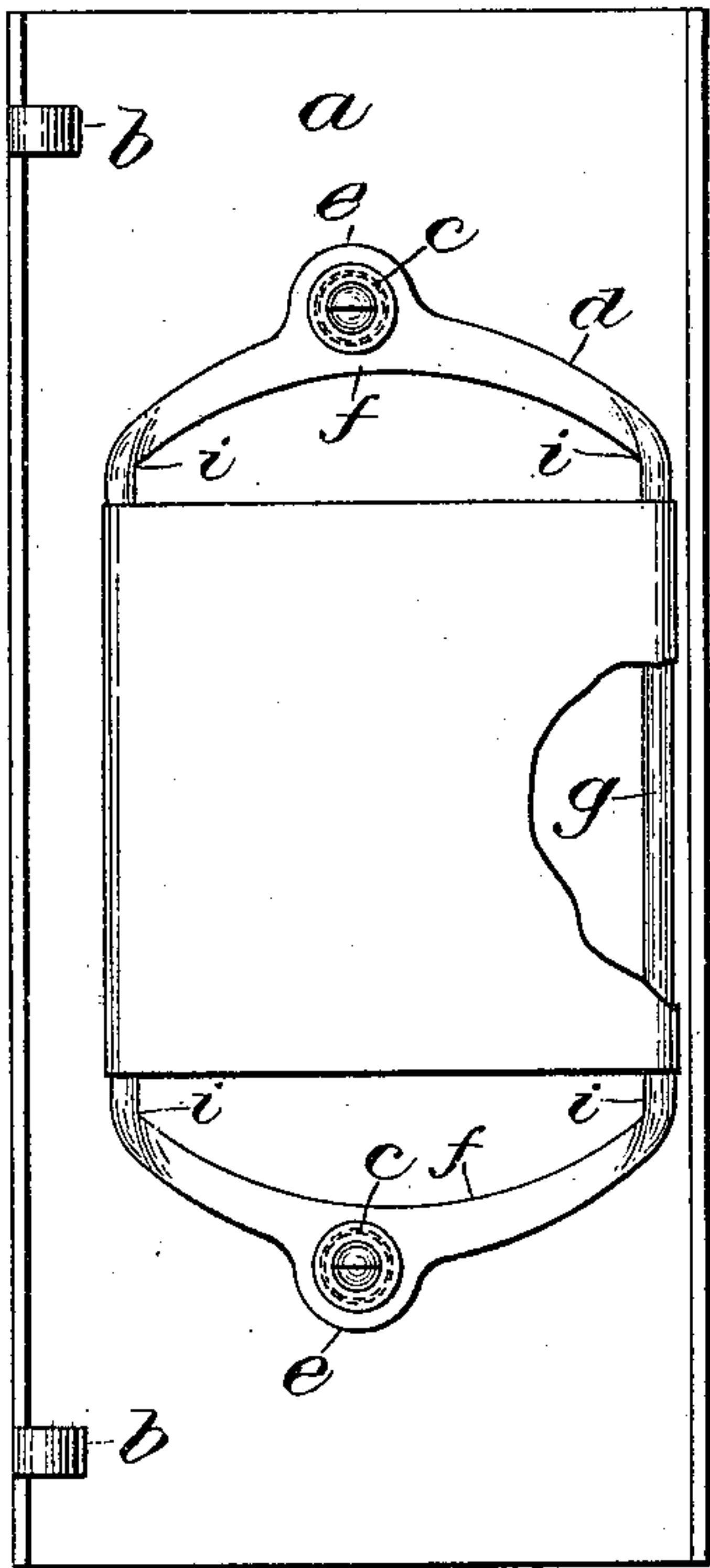
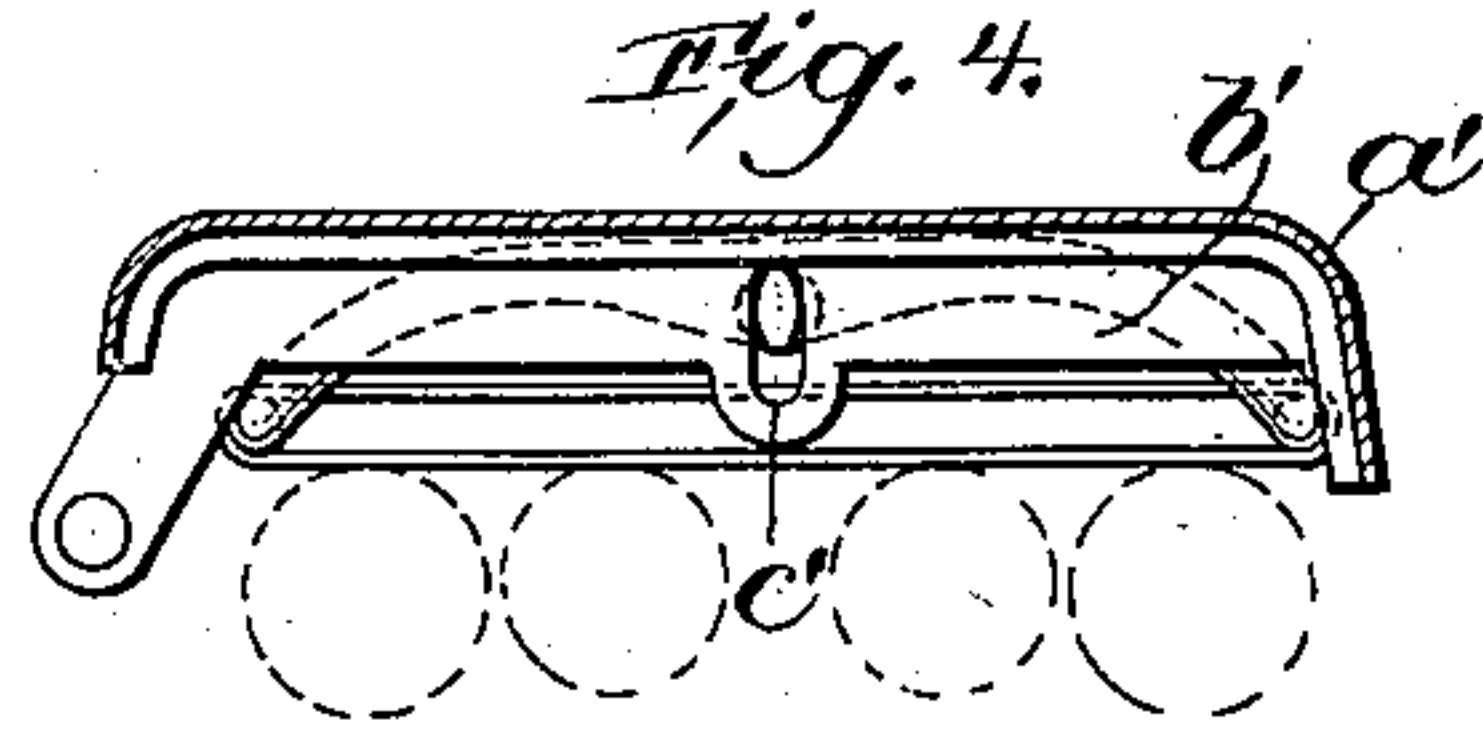
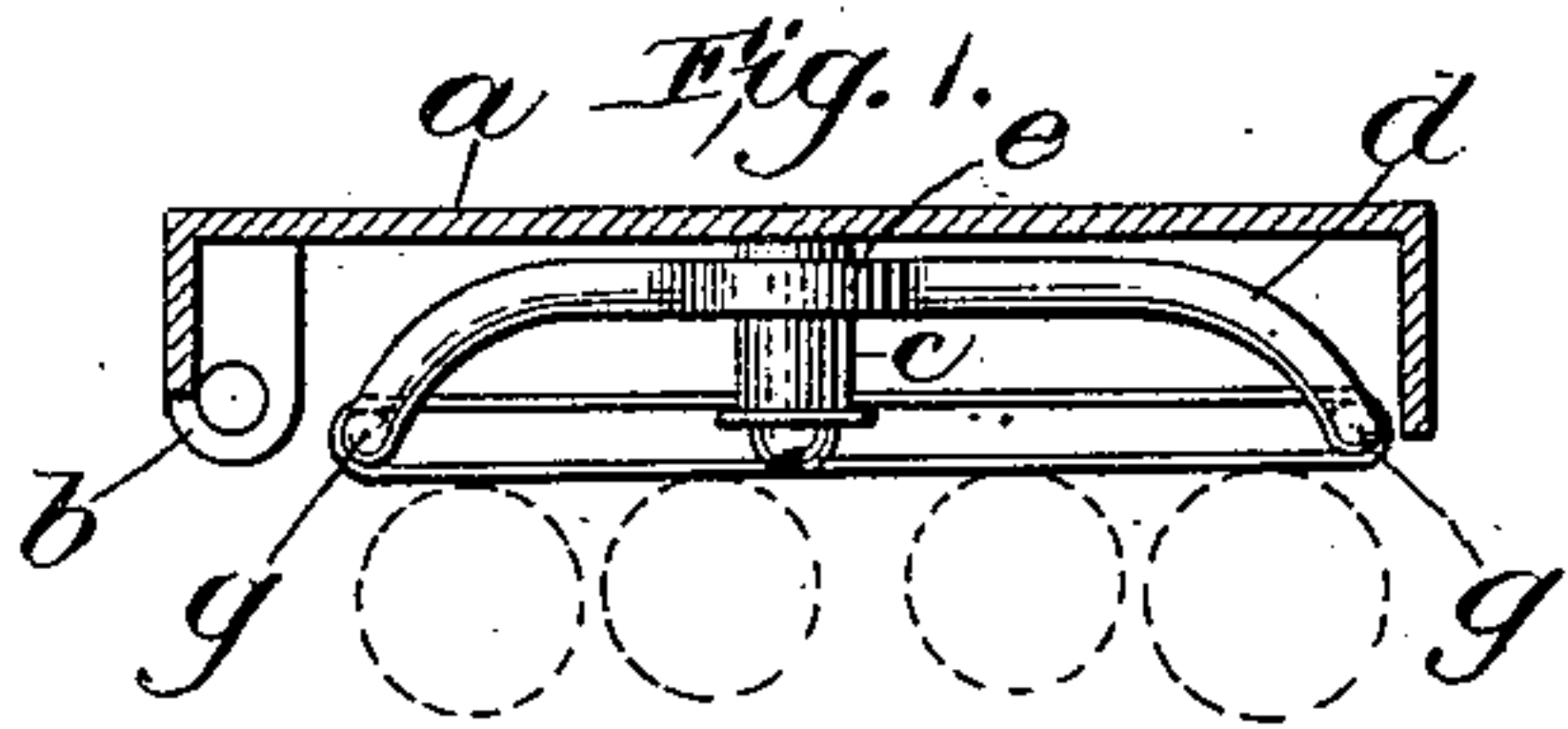
No. 617,904.

Patented Jan. 17, 1899.

L. W. PENNEY.
ROLLER CLEARER.

(Application filed June 29, 1898.)

(No Model.)



Witnesses:

Arthur G. Randall,
H. B. Davis.

Fig. 6.

Inventor:

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UNITED STATES PATENT OFFICE.

LOREN W. PENNEY, OF NEWTON, MASSACHUSETTS, ASSIGNOR TO THE SACO
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ROLLER-CLEARER.

SPECIFICATION forming part of Letters Patent No. 617,904, dated January 17, 1899.

Application filed June 29, 1898. Serial No. 684,723. (No model.)

To all whom it may concern:

Be it known that I, LOREN W. PENNEY, of Newton, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Roller-Clearers, of which the following is a description sufficiently full, clear, and exact to enable those skilled in the art to which it appertains or with which it is most nearly connected to make and use the same.

My invention relates to that class of devices known as "clearers" which serve to clear the drawing-rollers of drawing-frames and other similar machines of the lint or "fly" which adheres to the rollers as the sliver or roving of yarn passes through.

Heretofore it has been usual to support the flat web or band which removed the fly upon a frame comprising a flat slab or board having a pair of bent wires secured therein near its edges. When the web became worn out, it was necessary to pull out the wires, replace the old web with a new one, and drive the wires back into place. To drive the wires properly was a slow and difficult operation, often resulting in splitting and spoiling the board.

My present invention is entirely free from the objectionable features above indicated and comprises an integral or continuous frame over which the flat band or web can be readily slipped and from which it can be removed without dismembering the frame in any way.

Referring now to the drawings, in which I have illustrated one of the forms embodying my invention, Figure 1 is an end elevation, partly in section, showing the clearer in operative position, the drawing-rollers being indicated by dotted lines. Fig. 2 is a bottom plan view of the clearer. Fig. 3 is a front elevation of the same. Figs. 4, 5, and 6 are similar views showing another way of suspending the frame from the cover.

The cover *a* may be provided with suitable hinge portions *b*, forming a pivotal connection with the frame of the machine in any usual or suitable manner. The cover is also provided with a pair of studs *c*, the clearer-frame *d* being provided with suitable holes in its end supporting portions *e*, as indicated in Fig. 2, which serve to permit the hanging of

the frame upon the said studs, the frame being prevented from falling off by means of washers or other suitable devices.

The clearer-frame itself is formed of a continuous or integral piece of any suitable material—cast or stamped metal, for example—and comprises substantially parallel side portions or sections *g*, connected together by the end supporting portions *f*.

The specific form of the frame illustrated in the accompanying drawings is of skeleton formation, and the end or supporting portions are offset with reference to the plane of the side portions, thus permitting a slight rocking movement of the frame. The shoulders or offsets *i* serve to prevent the accidental displacement of the band or web, while permitting the easy removal of the same when worn out and the substitution of a new web in its place.

In Figs. 4, 5, and 6 I have illustrated another mode of hanging my improved frame in the cover. The cover *a'* is provided with brackets *b'*, having vertical slots *c'*, adapted to receive the projecting ends of the clearer-frame. One of the ends is adapted to pass into one of said slots. The other end is provided with a screw *d'*, which passes into the other slot, thus permitting a vertical and a rocking movement of the clearer to accommodate it perfectly to the action of the rollers. In order to prevent the screw from binding the frame against the slotted bracket, I may form said screw without a head, thus preventing any binding action due to the screw's being turned too far into the frame.

In Figs. 4 and 6 I have shown the end portions of the frame formed with an intermediate arched or curved portion *o*, which by bearing against the top of the cover prevents an excessive rocking movement when the cover is tipped back.

While I have shown the frame as being formed of a single piece, I do not intend to limit myself to a frame that is cast or stamped from a single piece of metal, as it would be a practical equivalent if the side and end portions were separate pieces rigidly secured together, so as to permit the putting in of the web or its removal without dismembering the frame, and it is equally within the scope of

my invention whether the frame be of skeleton formation or made of a solid plate of suitable form.

Having thus explained the nature of the invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, it is declared that what is claimed is—

10 1. A frame for roller-clearers having substantially parallel side portions and supporting end portions formed integrally therewith and being offset from the plane of the side portions, thus forming shoulders which serve
15 to prevent the accidental displacement of the web, while readily permitting its withdrawal and replacement.

2. In a clearer, the combination of a cover formed with slotted brackets, an integral
20 web-carrying frame having one of its ends carrying a headless screw, said screw being adapted to play in the slot of one of the supporting-brackets, substantially as described.

3. A roller-clearer comprising a cover, slot-

ted brackets depending therefrom, an inte- 25
gral web-carrying frame having its opposite sides parallel and its end supporting portions formed with headless studs engaging in said slots, thus fully permitting a vertical and a
30 tilting movement of said frame with relation to said cover, substantially as set forth.

4. A roller-clearer comprising a cover, brackets depending therefrom, an integral web-
35 carrying frame having parallel opposing sides for holding the web and end supporting portions offset with relation to the plane of the sides, said end portions having sliding engagement with said brackets, substantially as set forth.

In testimony whereof I have signed my
40 name to this specification, in the presence of two subscribing witnesses, this 21st day of June, A. D. 1898.

LOREN W. PENNEY.

Witnesses:

CHARLES MILLS,
S. A. THOMPSON.