

(No Model.)

J. POLLITT.
Roving Delivery Mechanism for Drawing Frames, &c.
No. 239,839.
Patented April 5, 1881.

FIG. 3.

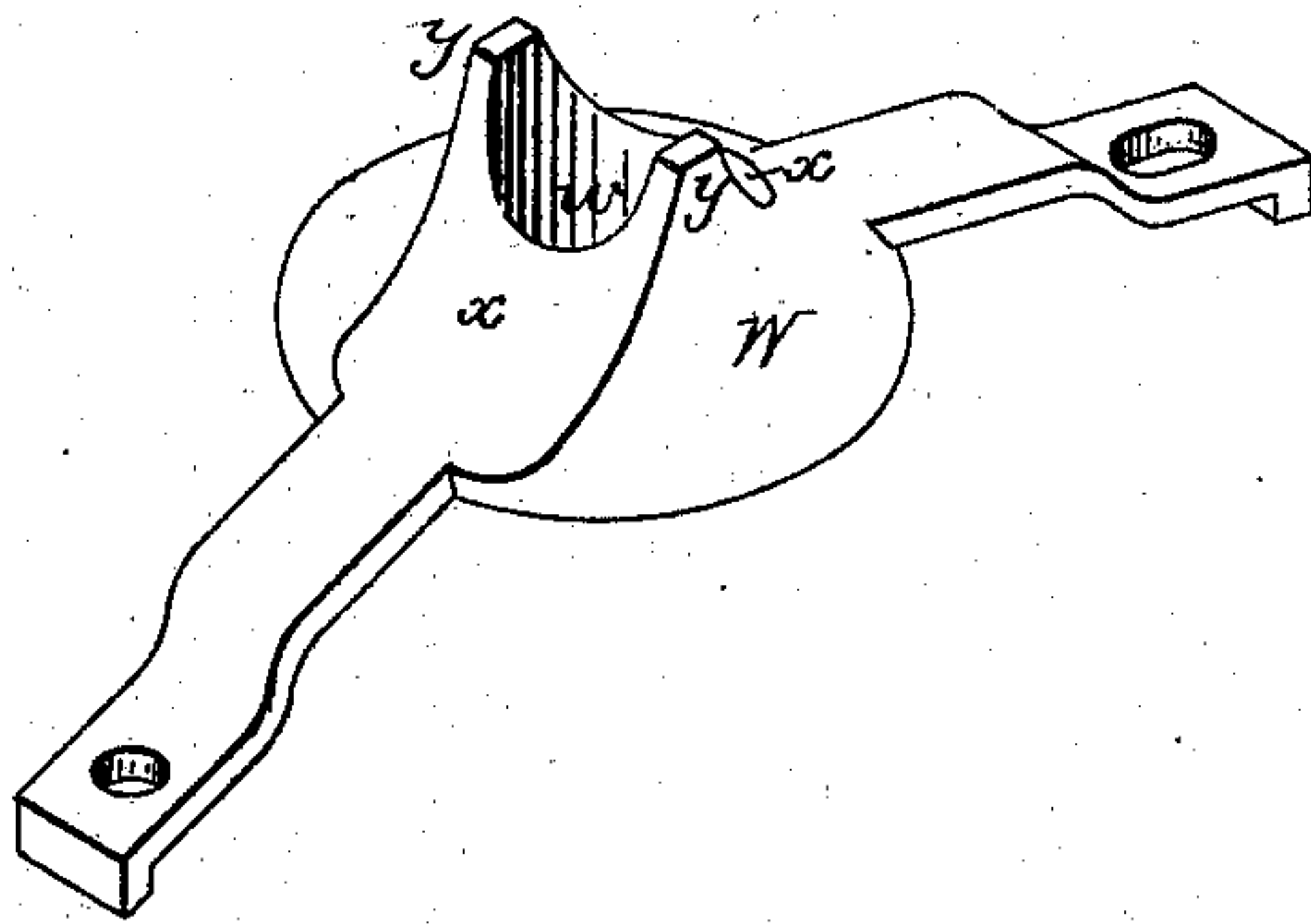


FIG. 1.

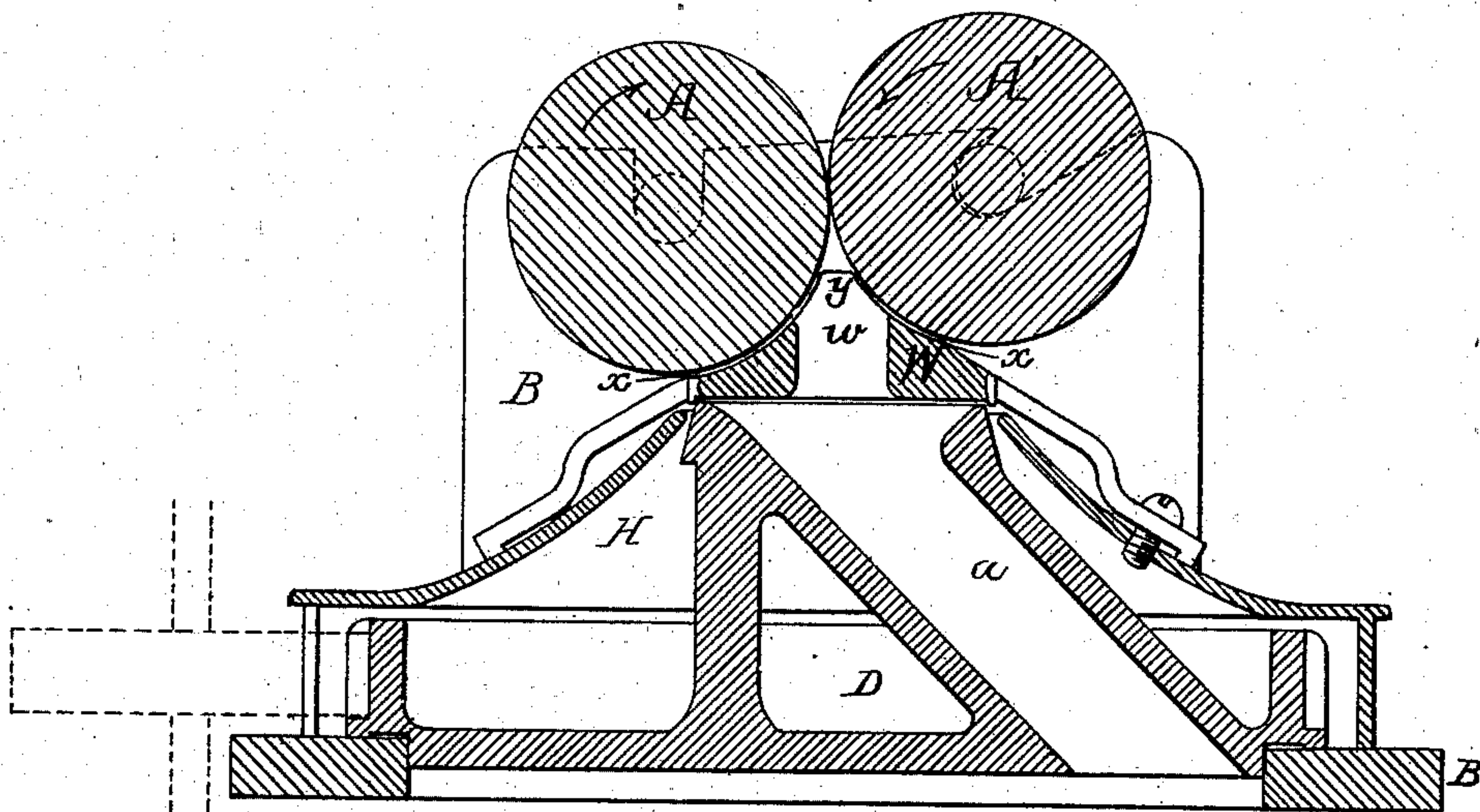
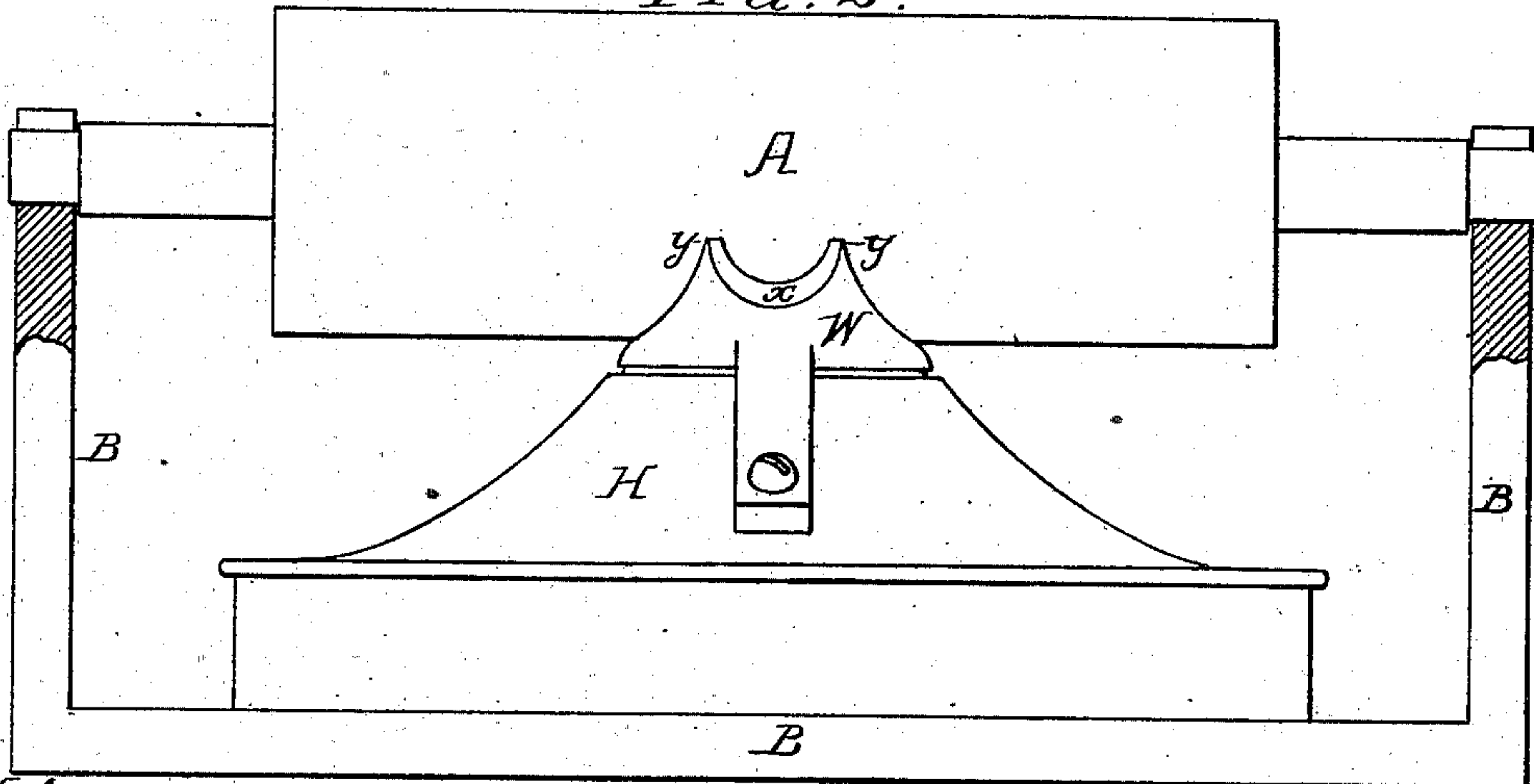


FIG. 2.



Witnesses:
Hubert Horvorn
Harry Smith

Inventor:
Joseph Pollitt.
by his attorneys
Horsman and son

UNITED STATES PATENT OFFICE.

JOSEPH POLLITT, OF PHILADELPHIA, PENNSYLVANIA.

ROVING-DELIVERY MECHANISM FOR DRAWING-FRAMES, &c.

SPECIFICATION forming part of Letters Patent No. 239,839, dated April 5, 1881.

Application filed November 15, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH POLLITT, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented an Improvement in Roving-Delivery Mechanism for Drawing-Frames, &c., of which the following is a specification.

My invention consists of a device, described hereinafter, for so directing the slivers in drawing-frames and carding-engines to the coilers by which the said slivers are directed into the receiving-cans that the passage of the sliver from the rollers to the orifice of the coiler, and through the inclined passage of the same, shall not be interrupted.

In the accompanying drawings, Figure 1 is a vertical section of sufficient of a drawing-frame to illustrate my invention; Fig. 2, a side view of Fig. 1; and Fig. 3, a perspective view of the guiding attachment, constituting the main element of the combination which I claim.

A and A' are the two delivery-rolls of a drawing-frame or carding-engine, the roller A' being slightly above the roller A, and its journals being adapted to inclined slots (shown by dotted lines in Fig. 1) in the frame B, so that the sliver will be pressed by the roller A' against the roller A. The frame B, which forms a part of the general frame-work of the machine, supports the coiler D, which is adapted to an annular recess in the said frame, and which has teeth on its periphery, so as to be driven by a pinion on a vertical shaft, as shown by dotted lines in Fig. 1. The coiler has an inclined opening, *a*, through which the sliver passes from between the rollers to the can placed beneath the coiler. A stationary cover, H, supported by the frame B, incloses the coiler. This cover, which has a central opening for admitting the sliver, has its flange cut away at one point to permit the pinion on the vertical shaft to properly engage in the teeth on the periphery of the coiler. All these parts have been heretofore used in connection with drawing-frames or carding-engines.

The rollers are driven, as usual, at appropriate speed, in the direction of the arrows, and the sliver is drawn downward by the two rollers and delivered thereby through the

opening in the cover and through the inclined opening in the coiler, by which the sliver is coiled as it is delivered into the can below said coiler.

When undyed cotton is operated on by the drawing-frames the sliver passes freely through the cover and coiler of ordinary construction without interruption; but when dyed cotton is used the passage of the sliver through the coiler is frequently interrupted, the opening in the coiler being choked, and the sliver accumulating in a mass between it and the cover, or between the latter and the rolls, and this involves the necessity of stopping the machine in order to clean away the obstructing sliver. To obviate this difficulty, I combine with the coiler and rolls a throat-piece, W, the opposite sides, *x x*, of which are curved to accord with the feed-rollers A A', the opposite ends, *y y*, extending upward between the rollers. The central opening, *w*, of the throat-piece is restricted to such dimensions that, while the sliver can pass freely through it to the entrance of the inclined passage in the coiler, the entrance to this opening is so bounded by the feed-rollers and by the upwardly-projecting ends *y y* of the throat-piece that there is no avenue of escape for the sliver, excepting through the passage in the said throat-piece, to the inclined passage of the coiler. In the present instance the base of the throat-piece is circular, and is in contact, or nearly so, with the upper edge of the cover-plate of the coiler, two arms projecting from the throat-piece, either or both of which arms may be fitted to the cover and secured thereto. The rollers should be as near to the throat-piece as possible, without being in absolute contact therewith.

I claim as my invention—

The combination of the coiler and feed-rollers of a drawing-frame or carding-machine with the throat-piece W, adapted to the said coiler and rollers, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH POLLITT.

Witnesses:

JAMES F. TOBIN,
HARRY SMITH.