

(No Model.)

D. C. STORR.
FOLDING COUCH BED.

No. 596,725.

Patented Jan. 4, 1898.

Fig: 1.

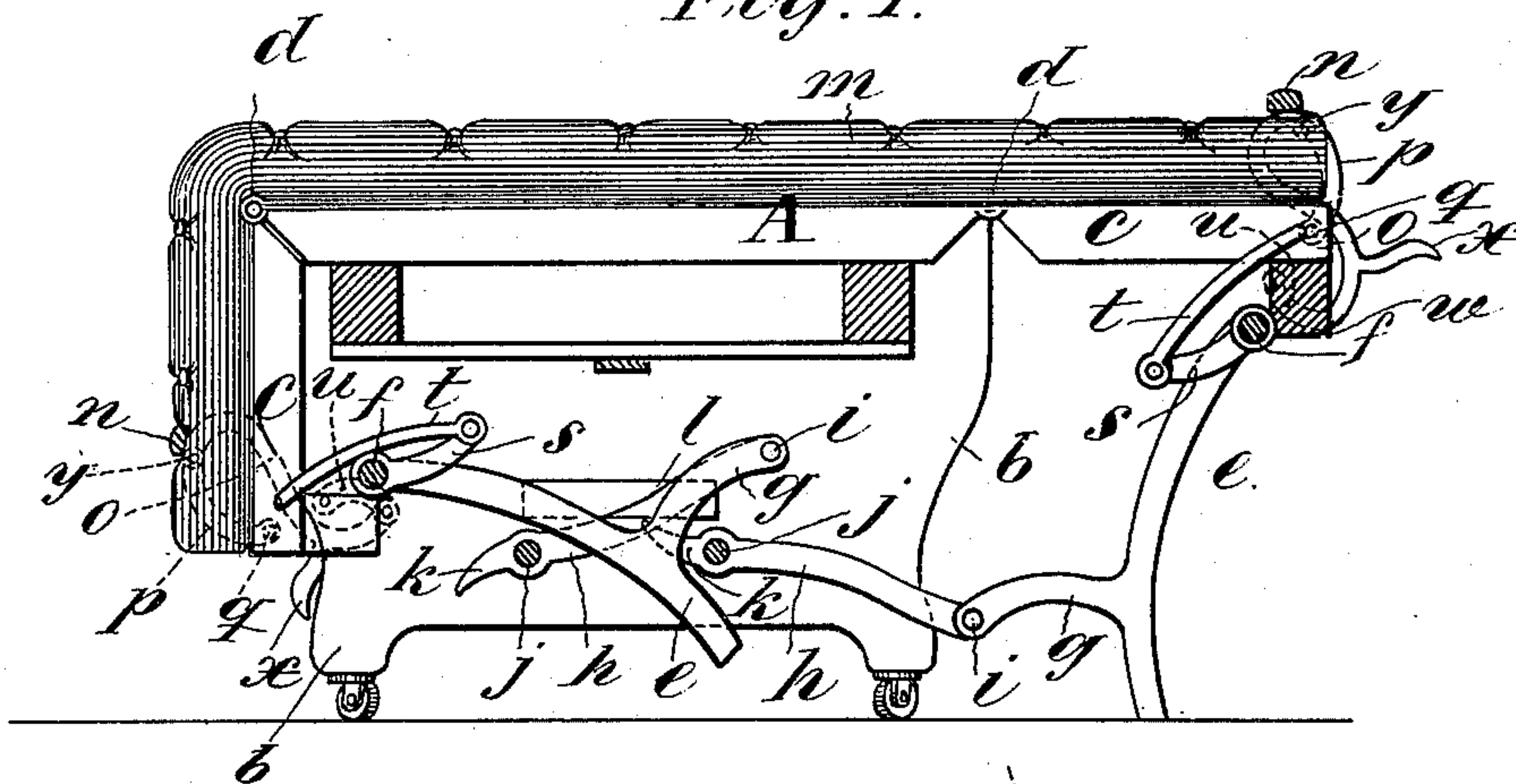


Fig: 2.

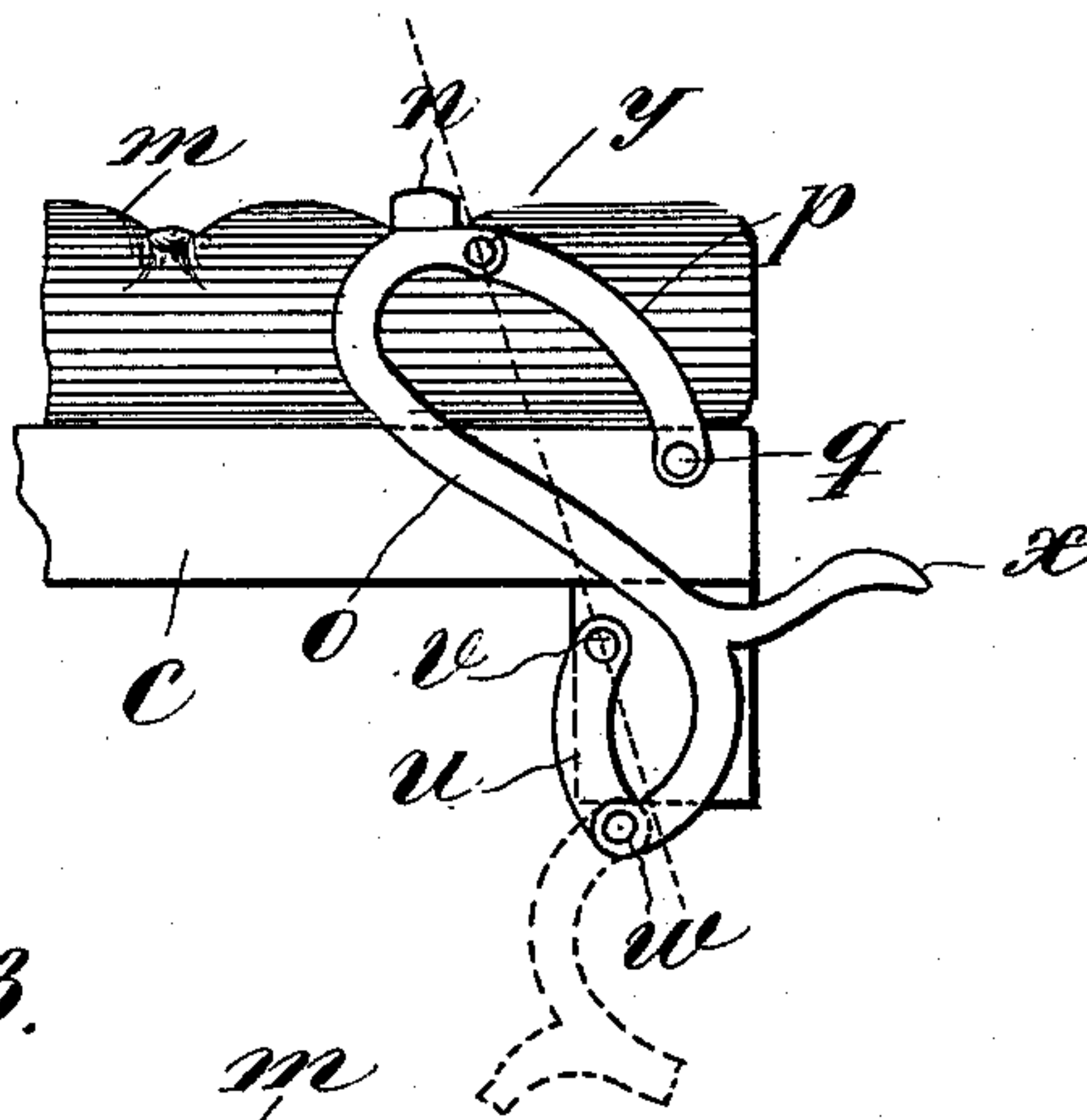
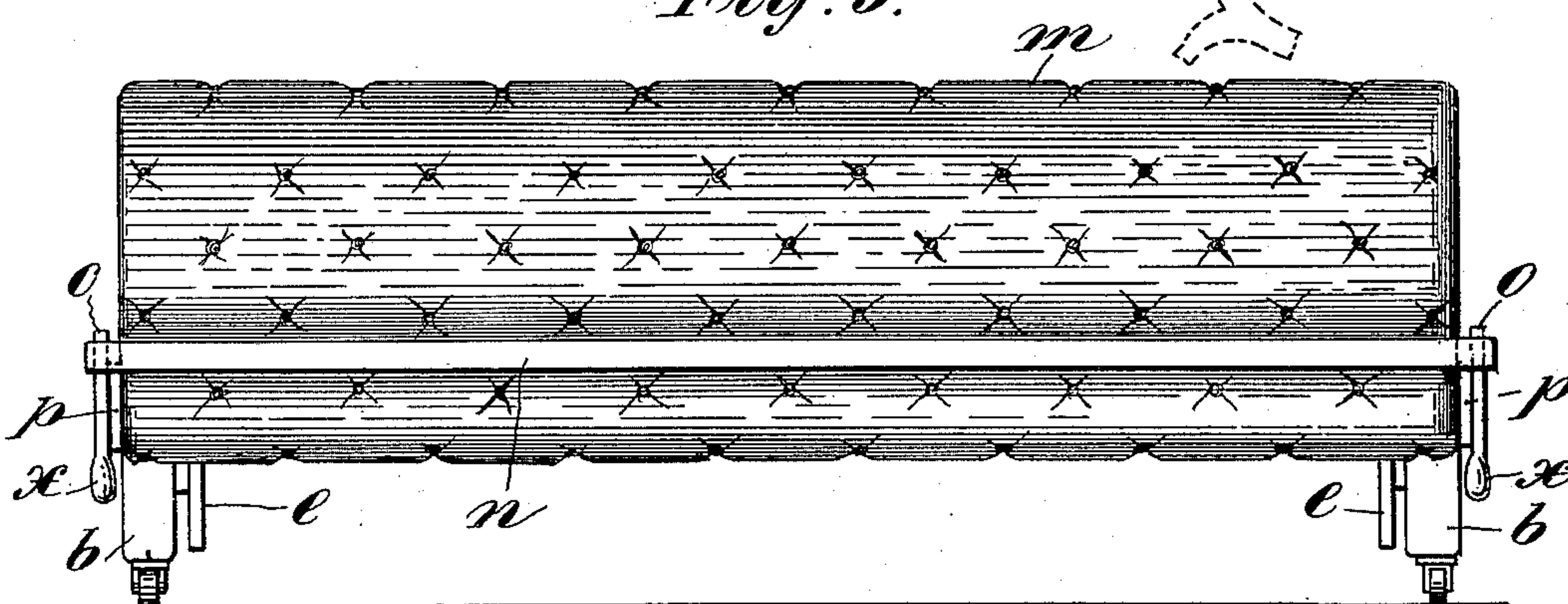


Fig: 3.



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FOLDING COUCH-BED.

SPECIFICATION forming part of Letters Patent No. 596,725, dated January 4, 1898.

Application filed March 11, 1897. Serial No. 626,968. (No model.)

To all whom it may concern:

Be it known that I, DAVID C. STORR, a citizen of the United States, residing at New York city, in the county and State of New York, have invented certain new and useful Improvements in Folding Couch-Beds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists of improved construction and arrangements of the folding wing-supporting legs and the mattress-binding apparatus of folding couch-beds, whereby it is designed to provide simpler and more satisfactory couch-beds, as hereinafter described, reference being made to the accompanying drawings, in which—

Figure 1 is an end elevation of my improved folding couch-bed with one wing set up for use as a bed and the other folded down as for a couch and with some parts in section transversely of the bed. Fig. 2 is a detail showing the binder locked preparatory to folding the wing down. Fig. 3 is a side elevation of the couch-bed with a wing folded down.

A represents the middle frame, which is supported on any suitable legs *b*. *c* represents the wing frames, which are hinged to the edges of the middle frame at *d* in any suitable way for folding down, as at the left-hand side of Fig. 1. The wings are supported at their outer edges by legs *e*, pivoted to them, said legs having near their lower ends an inwardly-projecting arm *g*, which at its inner extremity is jointed to the outer end of a lever *h* by a suitable pivot-joint *i*. The lever *h* extends nearly to the middle of the part A and is pivoted at *j* to a cross-bar connecting legs *b* and has a short arm *k* extending beyond the pivot for lodgment against a stop *l*, of any approved form, located over said arm to limit the fall of the long arm. The legs of both ends of the wings are coupled by a rock-shaft *f*, so that one will be turned by the other, said shaft forming the pivotal connection of the legs with the wing and having an arm *s* and handle *t* intermediately of the legs.

When the wings are to be folded down, the handle *t* is pulled forward to swing the joints

i upward and throw the levers *h* over backward beyond their pivots *j*, carrying legs *e* to a point where the legs and levers gravitate in the direction tending to hold the wing close under the edge of the middle portion of the bed. When folding up the wings, they are simply pulled outward and upward, which also draws the legs and levers forward to a point where they gravitate downward outside of the pivots *j* and come to rest in positions to support the wings properly.

For the binder to confine the edge of the mattress *m*, when folded down, I employ a bar *n*, reaching the whole length of the mattress and projecting a little at the ends, which are respectively coupled to one end of an S-shaped clamping-bar *o*, which is also jointed at *y* to a link *p*, pivoted at *q* to the end of the wing frame, the other end of said bar *o* being coupled at *w* to a link *u*, which is pivoted at *v* to the end of the wing frame, the relation of the pivots *q*, *v*, and *y* being such that the clamp is locked or unlocked according as the joint *w* is shifted to the left or right of the line *t* in which the pivots *y* and *v* are located. A handle *x* is applied to clamping-bar *o* for convenience in so shifting the joint *w*, but it is obvious that bar *o* may be so actuated without the handle. When the clamps are unlocked, the binder *n* may be swung down under the wing, as indicated in dotted lines in Fig. 2.

I claim—

1. In a folding couch-bed, the combination with the wings, of wing-supporting legs located at the ends of the wings and coupled by a rock-shaft pivoted to the wings, an inwardly-projecting arm near the lower end of each leg, a lever pivoted at the extremity of its long arm to the end of the arm of the leg, and having its fulcrum-pivot on the middle portion of the bed, and a stop for limiting the fall of said lever when the wing is upfolded, substantially as described.

2. In a folding couch-bed, the combination with a folding wing, of a mattress-binder consisting of the binding-bar extending the length of the wing and projecting slightly beyond the ends, an S-shaped clamping-bar at each end of the wing coupled at one end to said clamping-bar, and coupled at its re-

spective ends with links pivoted to the frame
in the relation whereby the joint of one end
of said clamping-bar with one of said links
may be shifted across the line of the pivots
5 of the two links with the frame for locking
and unlocking the binder, substantially as
described.

In testimony whereof I affix my signature
in presence of two witnesses.

DAVID C. STORR.

Witnesses:

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