

(No Model.)

2 Sheets—Sheet 1.

I. NUTT.
FOLDING BED.

No. 302,931.

Patented Aug. 5, 1884.

Fig. 1.

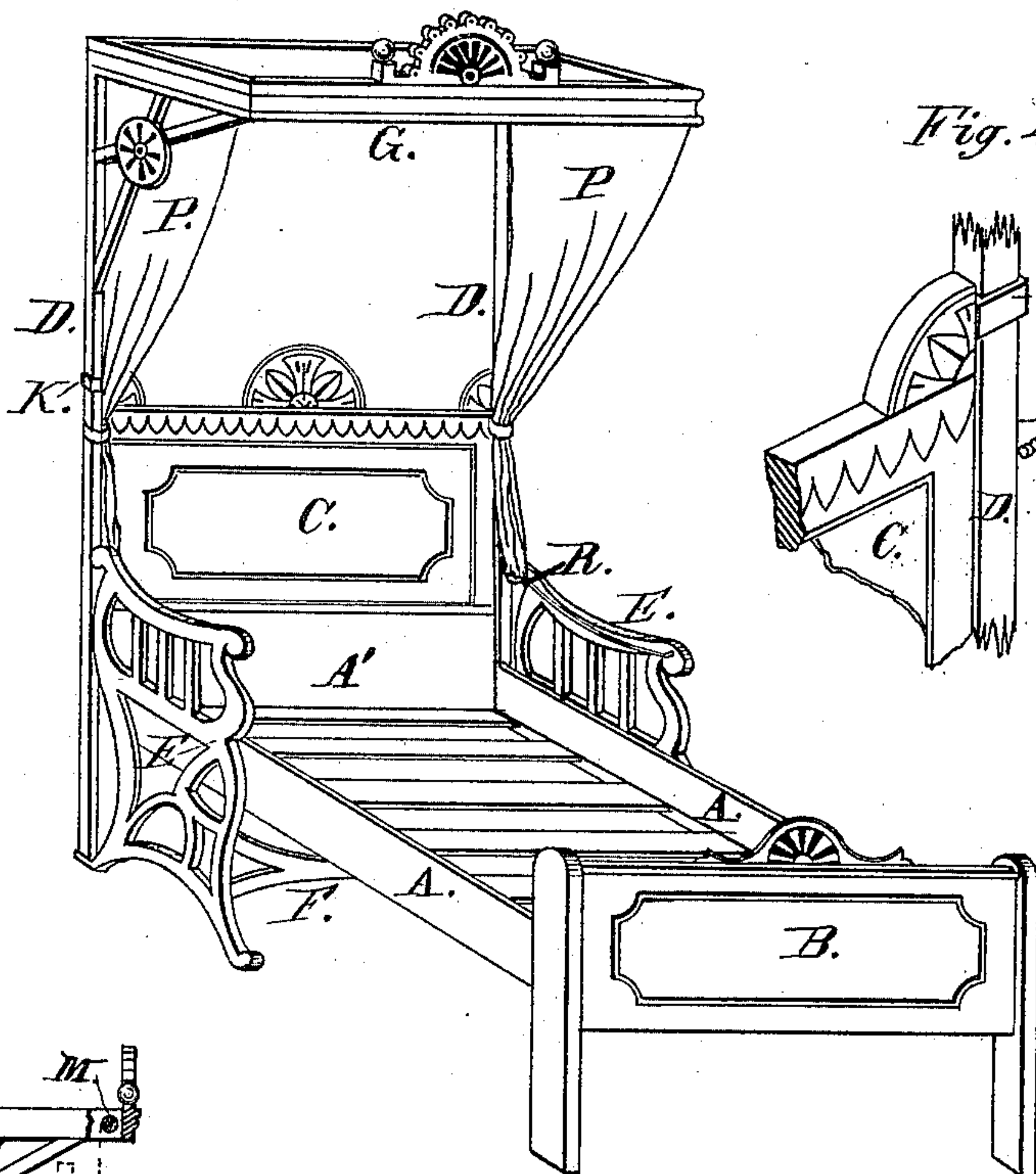


Fig. 4.

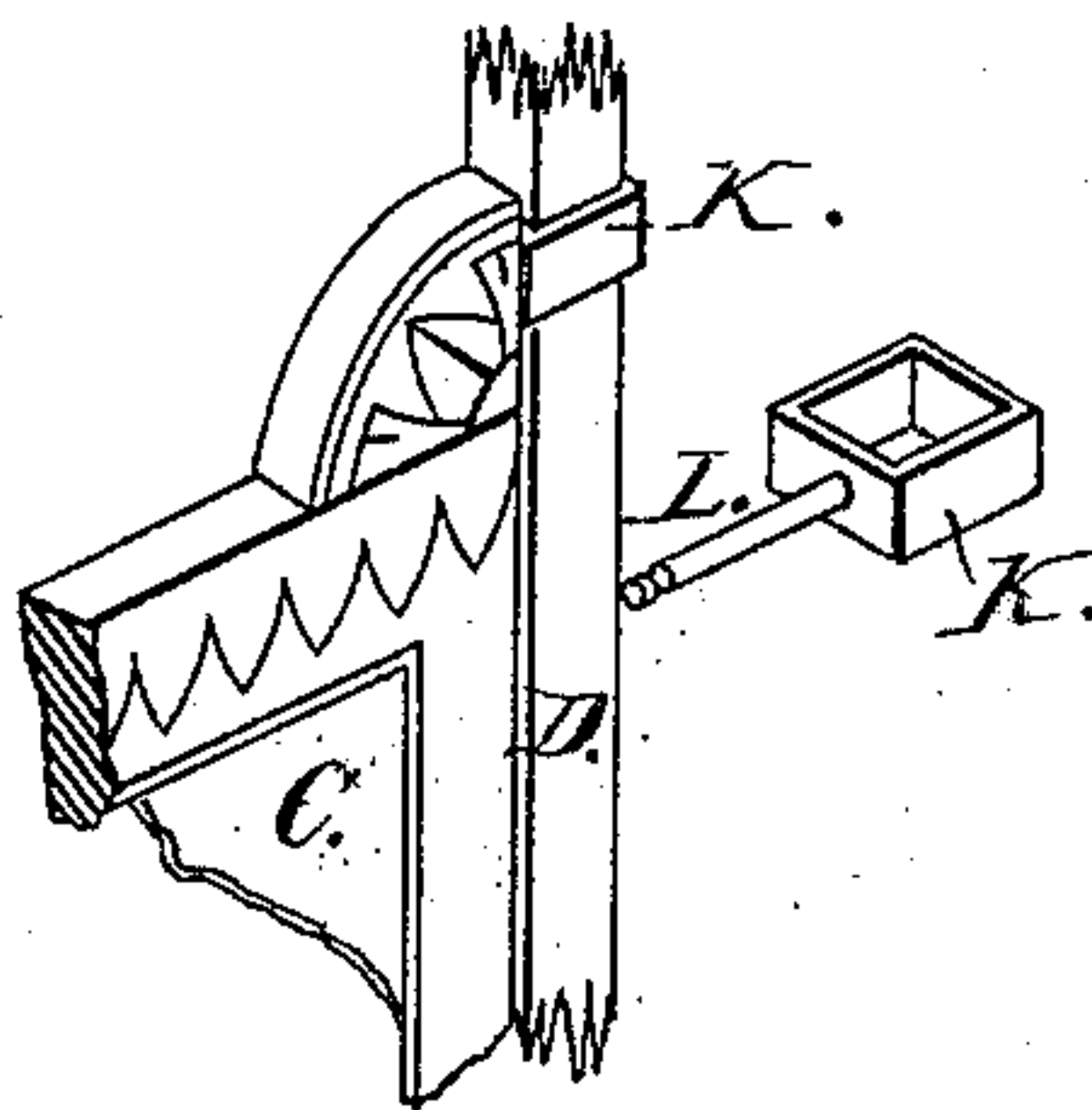


Fig. 2.

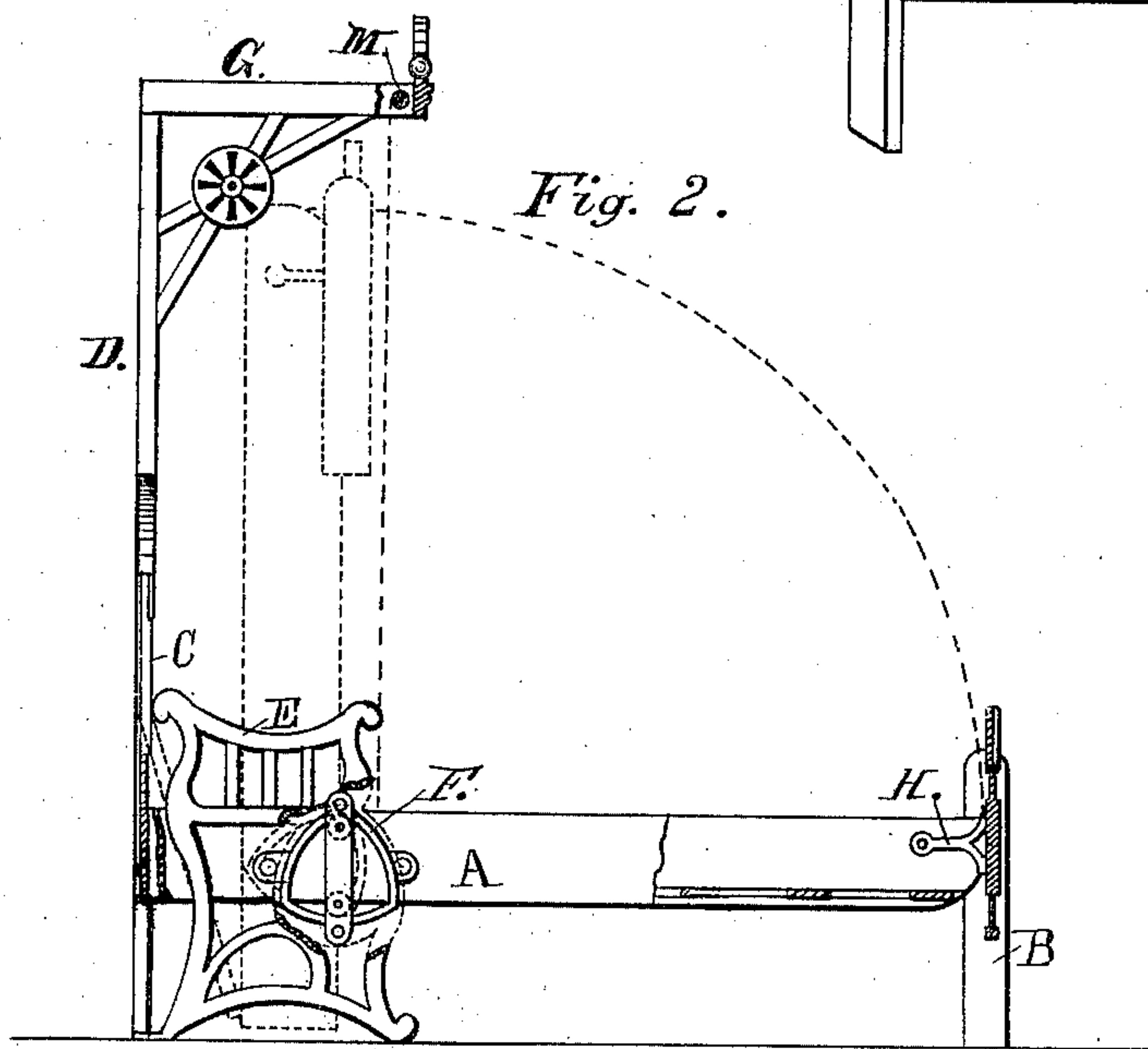
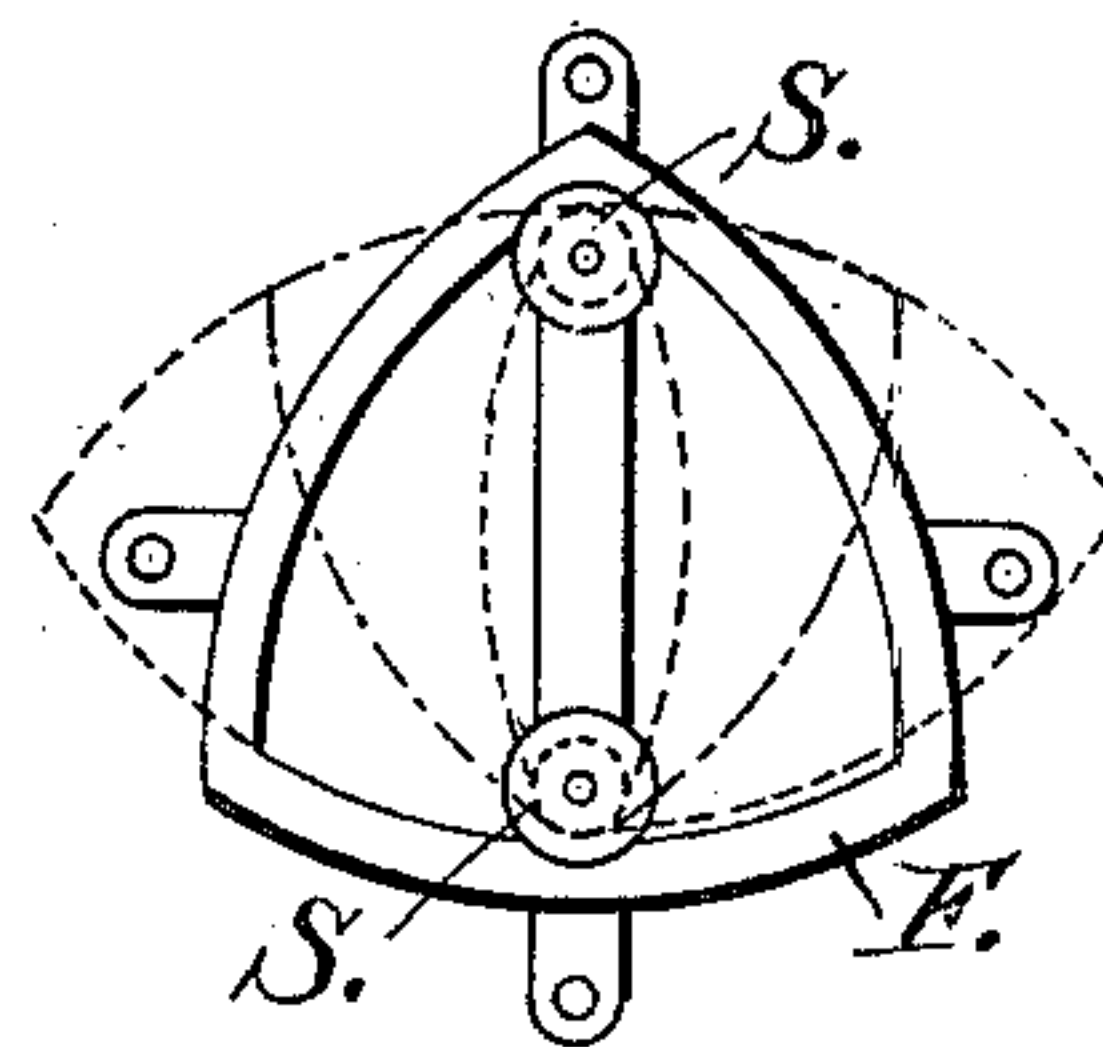


Fig. 3.



Witnesses.

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Attorney.

(No Model.)

2 Sheets—Sheet 2

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Patented Aug. 5, 1884.

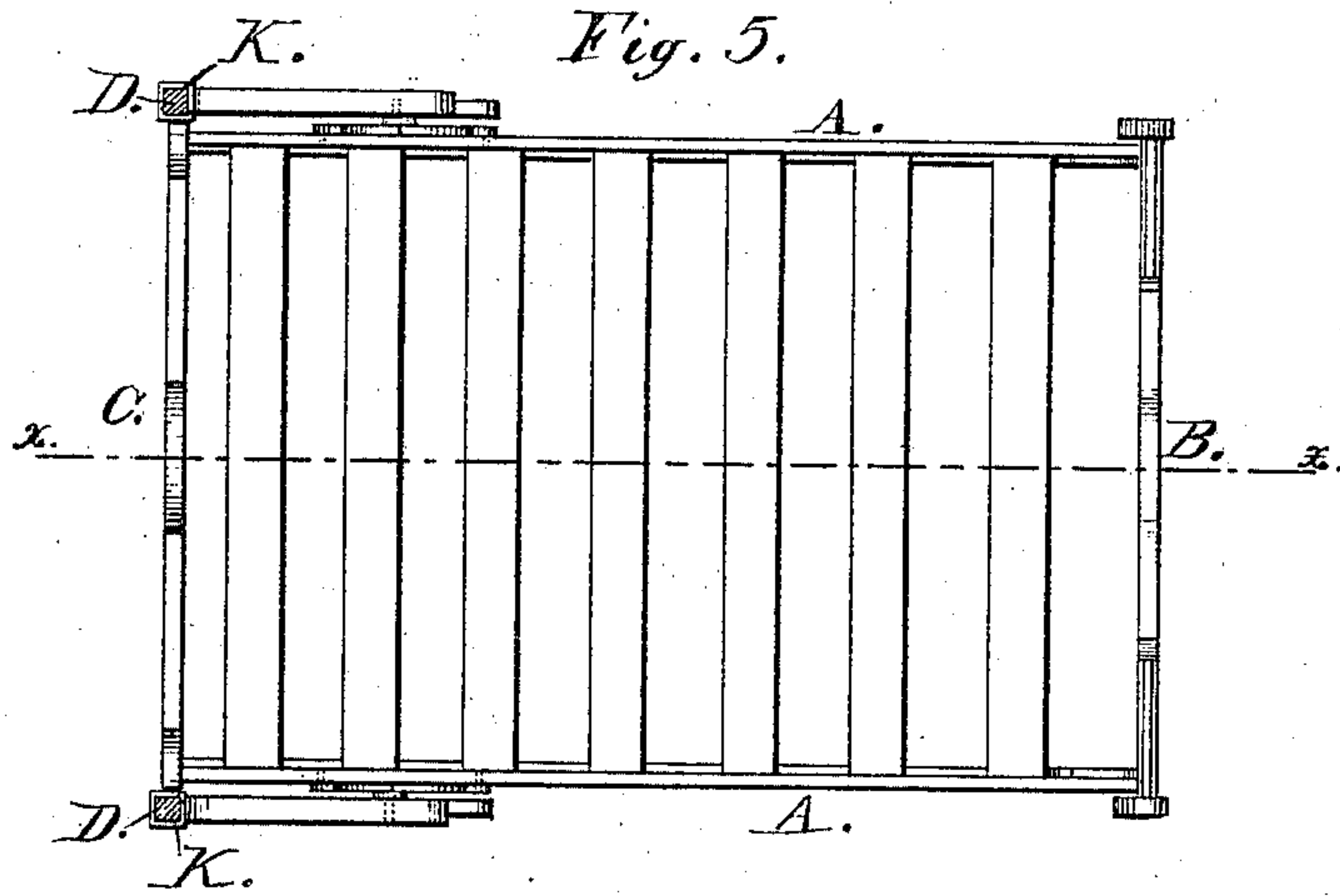


Fig. 6.

Fig. 7.

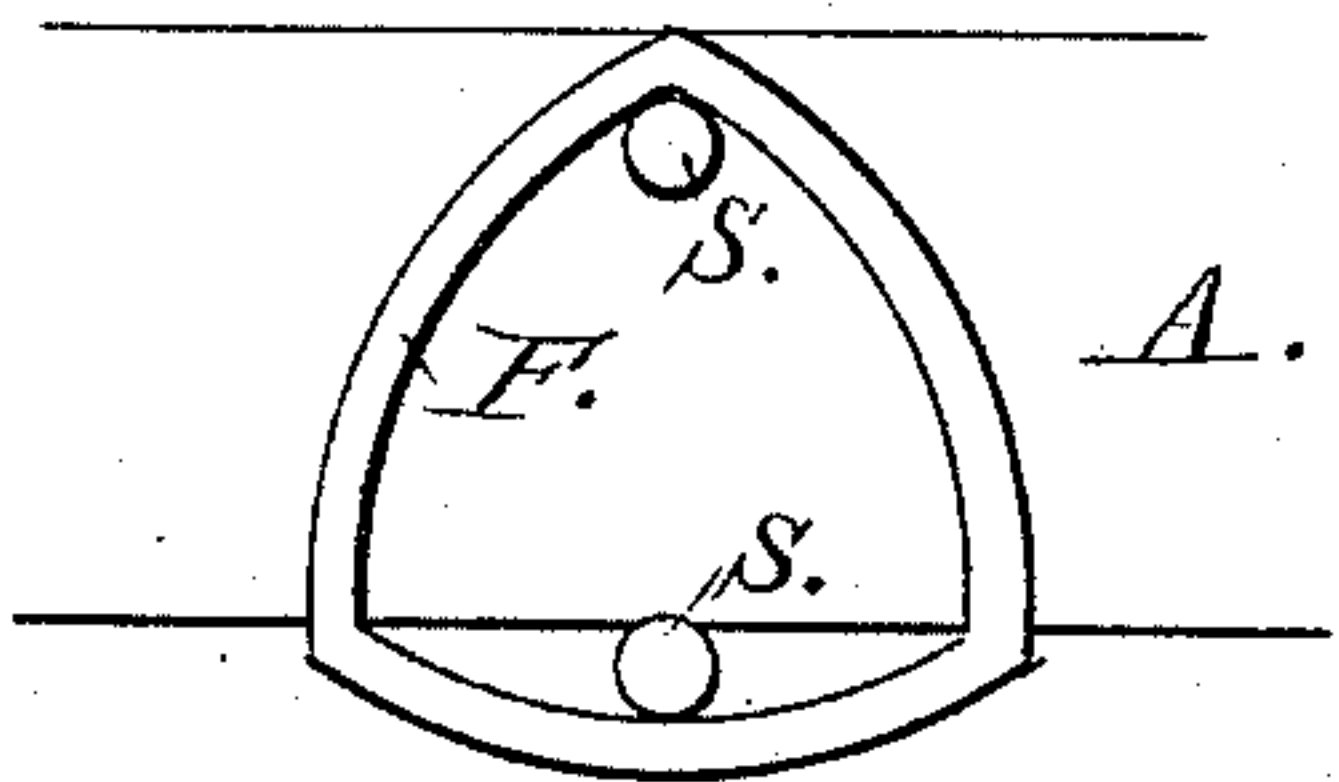


Fig. 8.

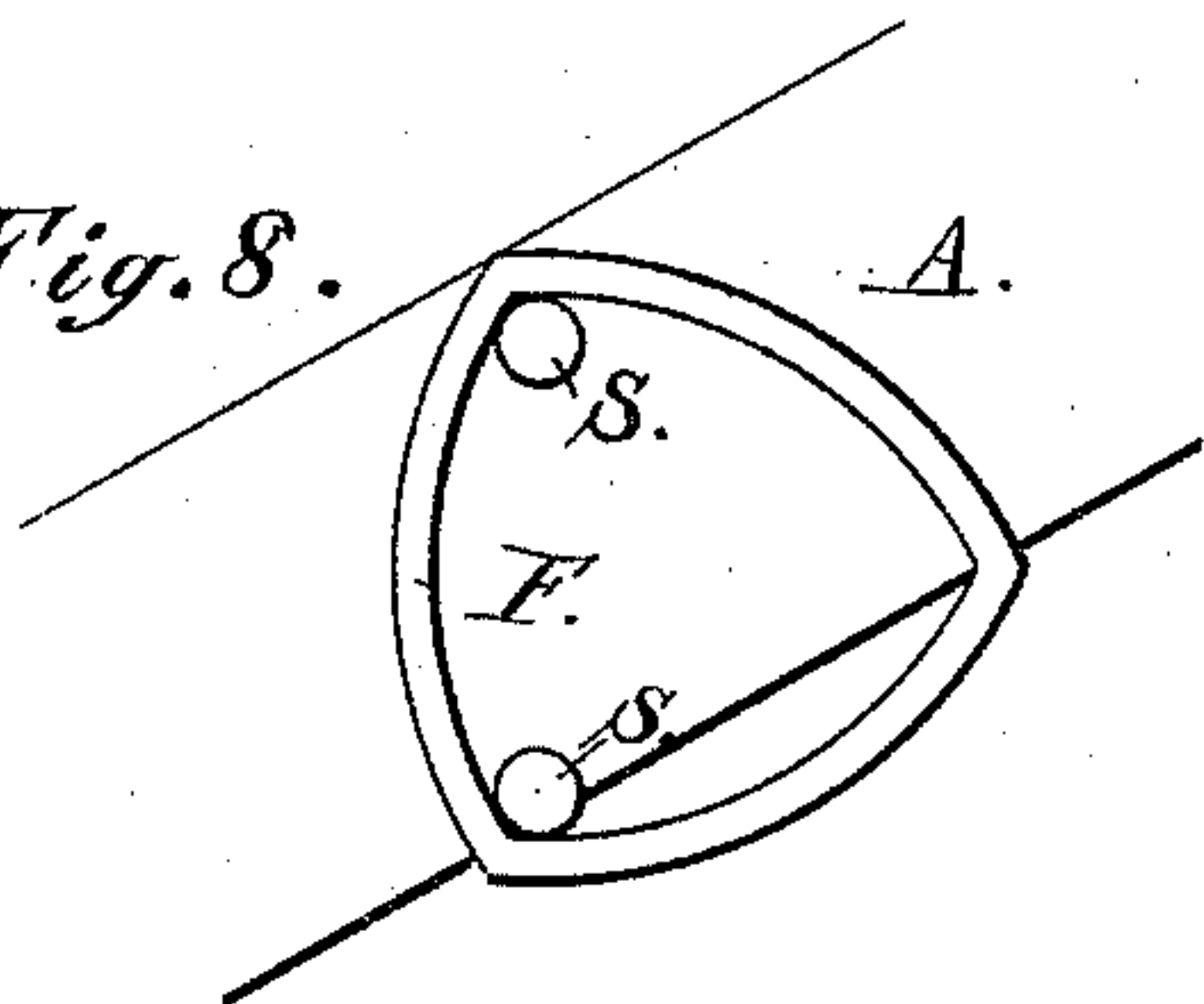


Fig. 9.

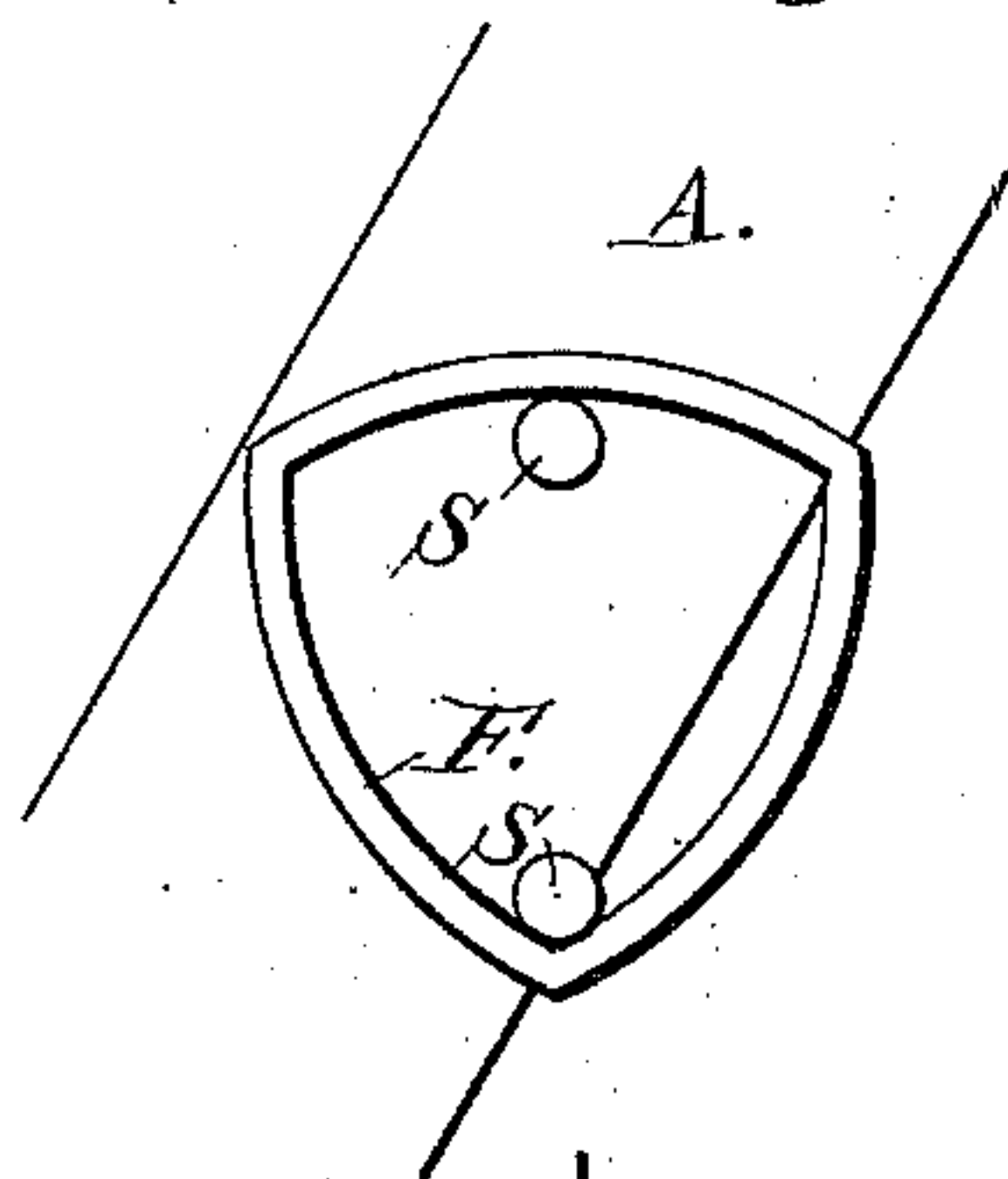
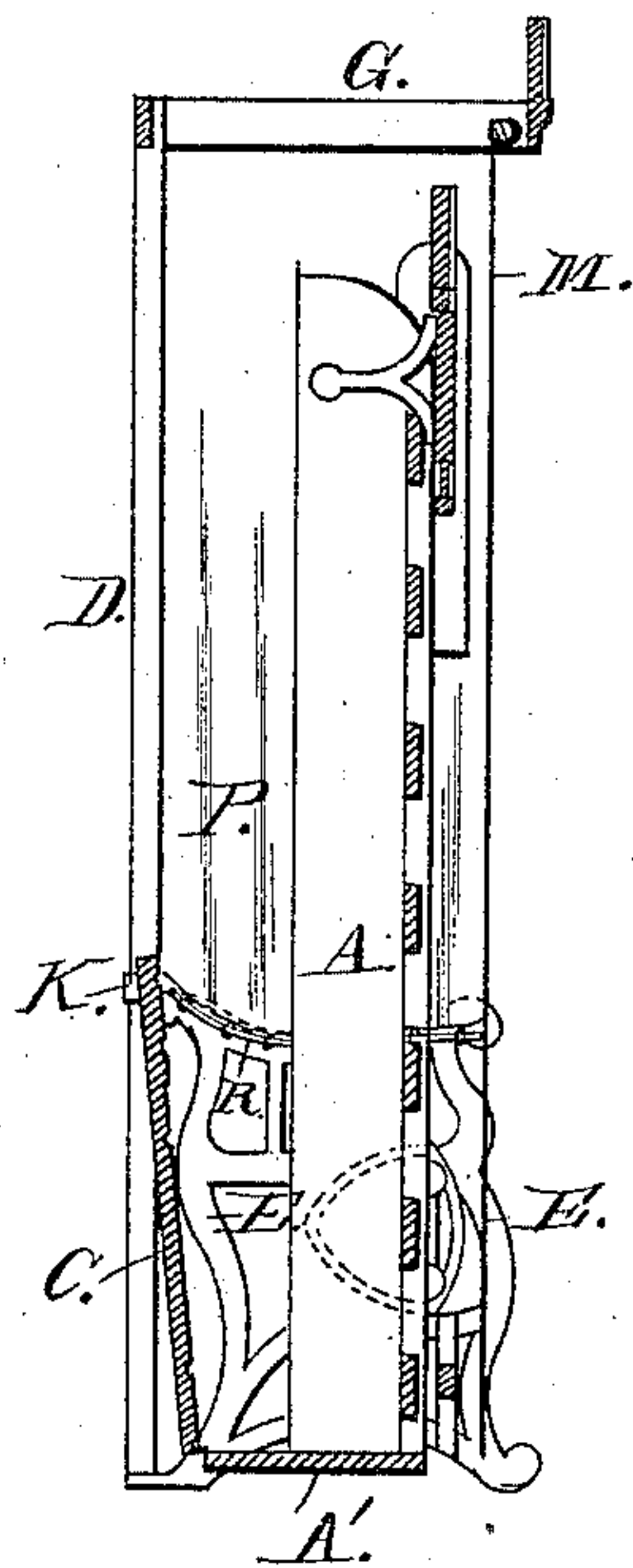
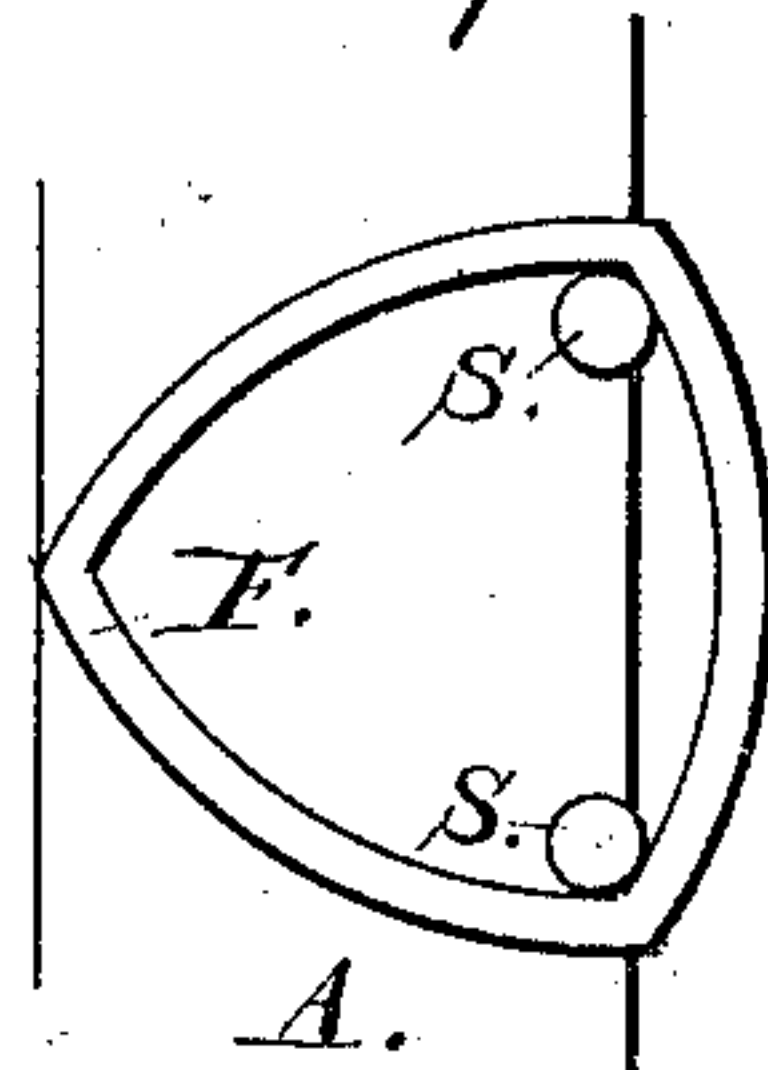


Fig. 10.



Witnesses.

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...

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UNITED STATES PATENT OFFICE.

ISAIAH NUTT, OF NEW YORK, N. Y.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 302,931, dated August 5, 1884.

Application filed June 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, ISAIAH NUTT, of the city, county, and State of New York, have invented a new and useful Improvement in Folding Beds; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to an improvement in folding bedsteads.

It consists in a novel method, as hereinafter fully described, of pivoting the movable frame in a folding bedstead to a stationary head frame or case, so that the bed-bottom, with the foot-board pivoted thereto and the bedding supported thereby, may be folded up with great ease into a vertical position.

In the accompanying drawings, Figure 1 is a view in perspective of my improved bedstead opened out; Fig. 2, a side elevation of the same, partly in section; Fig. 3, a detached view of the pivotal device upon which each side bar swings as the bedstead is folded up; Fig. 4, a detached view of one corner of the sliding head-board, illustrating the mode of its attachment to the head-post; Fig. 5, a plan view of the bedstead, with the head-posts in section; Fig. 6, a vertical central section of the bedstead when folded up. Figs. 7, 8, 9, and 10 illustrate the movement of the pivotal device upon which the bed-bottom is made to swing.

Similar letters indicate like parts in all of the figures.

A A represent the side bars; B, the foot-board; C, the head-board, and D D the head-posts of the bedstead. The head-posts are secured to a supporting-frame constructed of the fixed side pieces, E E, united by a cross-piece, F, Fig. 1, and may be adapted to uphold a light canopy or tester, G, overhead, under which the foot of the bed will rest when the bed is folded up. The side bars are each pivoted to the stationary side or end pieces, E E, at the head of the bedstead, by means of an open frame, F, constructed in the form of an equilateral curvilinear triangle each of whose sides describes an arc having for its center the axis of a friction-roller placed in the angle opposite thereto and adapted to bear against and to traverse upon the inner side of the frame. This curved

triangular frame F is secured to the outer face of the side bar in such manner as that two of its angles shall be in a line parallel with the lower edge of the bar, (see Figs. 2 and 7,) and is made to fit upon two friction-rollers, S S, mounted upon a bar secured vertically to the inner face of the side piece, E, to bear closely against the interior of the triangular frame at opposite points thereof, leaving the latter free to revolve thereon. The friction-rollers are placed near the outer or front edge of the side pieces, E E, to leave room for the head-board, &c., back of the bed-bottom when it is folded up, and they are flanged to overlap the edge of the triangular frame, so as to assist in retaining it in place upon them.

The foot-board B is pivoted to the side bars in the customary manner by means of hinges H H, Fig. 2, which permit it to retain its vertical position as it is carried up by the folding of the bed-bottom. The head-board C of the bedstead is left free to move up and down between the posts D D, being confined thereto by means of straps K K, encircling each post, and each of which is secured to the upper end of the head-board by means of a bolt, L, Fig. 4, which serves as a pivot upon which the head-board may swing. The lower end of the head-board is hinged, preferably, with double or three plate hinges to the cross-bar A', connecting the ends of the side bars at the head, so that when the side bars are turned up upon the cams F F, the head-board will be drawn down therewith, as shown in Fig. 6, its lower end being free to swing out from the perpendicular upon the pivot-bolts L.

A curtain, M, mounted upon a spring-roller, is fixed under the front edge of the tester or canopy G, which is constructed to cover the upturned foot of the bed when the bedstead is folded, so that by drawing down said curtain the under side of the upturned bed-bottom may be neatly concealed. The sides of the bedstead may also be thus concealed, when it is folded up, by means of lateral curtains P P, secured to the canopy G, and whose lower ends are adapted to slide upon rods R, fixed along the upper edges of the side pieces E E, as shown in Figs. 1 and 6.

The peculiar form of the curved triangular pivot-frame F, in combination with the friction-rollers upon which it moves, operates to

facilitate greatly the upturning or folding of the bed-bottom, from the fact that the side bars will swing readily upon the top roller as a center (see Figs. 2 and 7) until the rear angle of the frame is brought into contact with the lower roller, (see Fig. 8,) whereupon this roller will become the pivotal center, leaving the weight of the bed to be carried and to move freely over and upon the upper friction-roller (see Fig. 9) until the front angle having reached the upper roller the bed-bottom has attained its vertical position, (see Figs. 6 and 10,) the free movement upon the rollers being permitted by the curve in each side of the frame.

15 I claim as my invention—
The combination, with the movable frame,

in a folding bedstead, and with its stationary supporting-frame, of an equilateral, curvilinear, triangular frame secured to each side bar of the movable frame, and a pair of friction-rollers 20 secured to the stationary frame and fitted to engage the inner sides of each triangular frame at opposite points thereof, substantially in the manner and for the purpose herein set forth.

In testimony whereof I have signed my name 25 to this specification in the presence of two subscribing witnesses.

ISAIAH NUTT.

Witnesses:

WM. H. RIBLET,
A. W. STEIGER.