

(Model.)

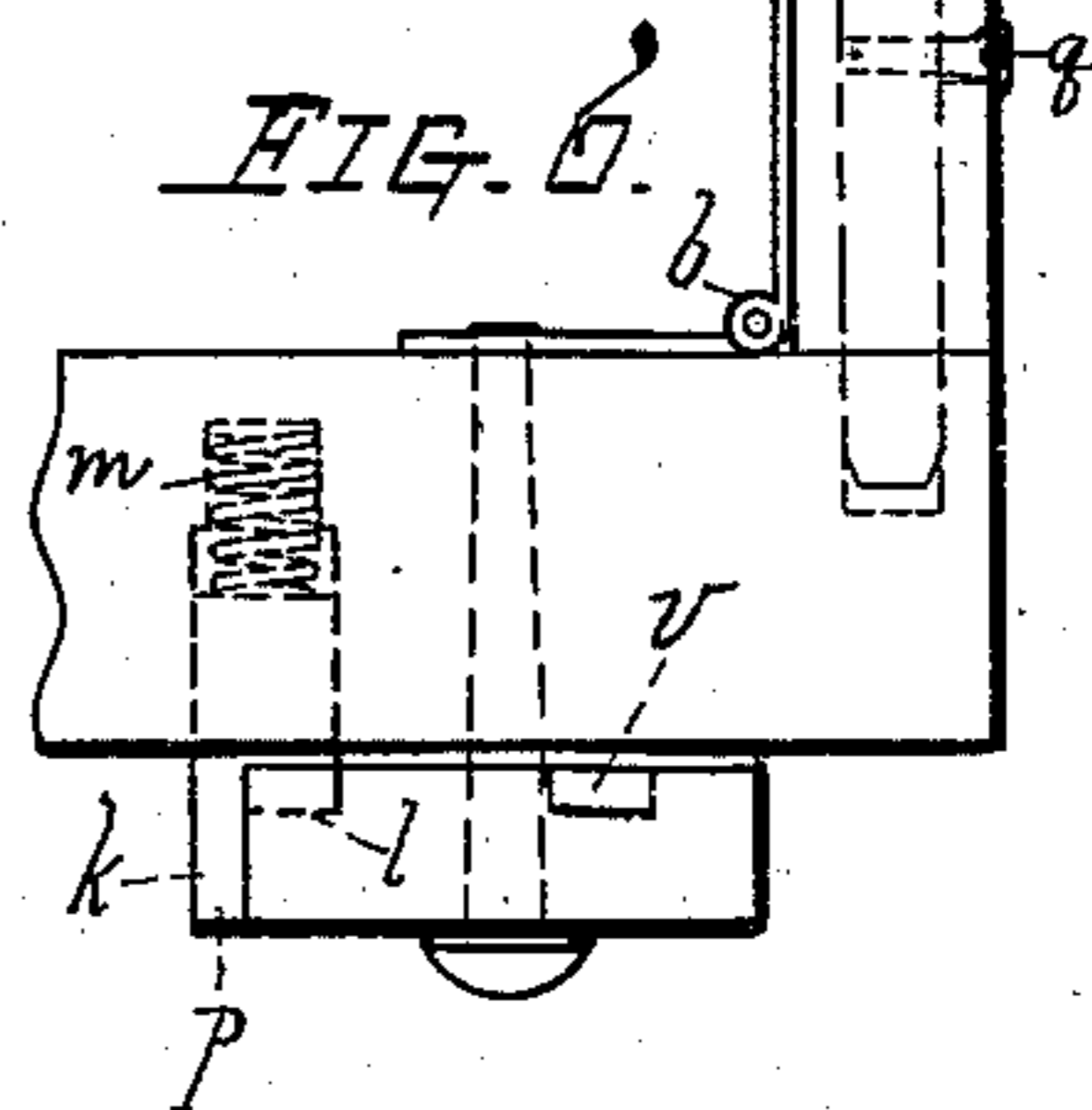
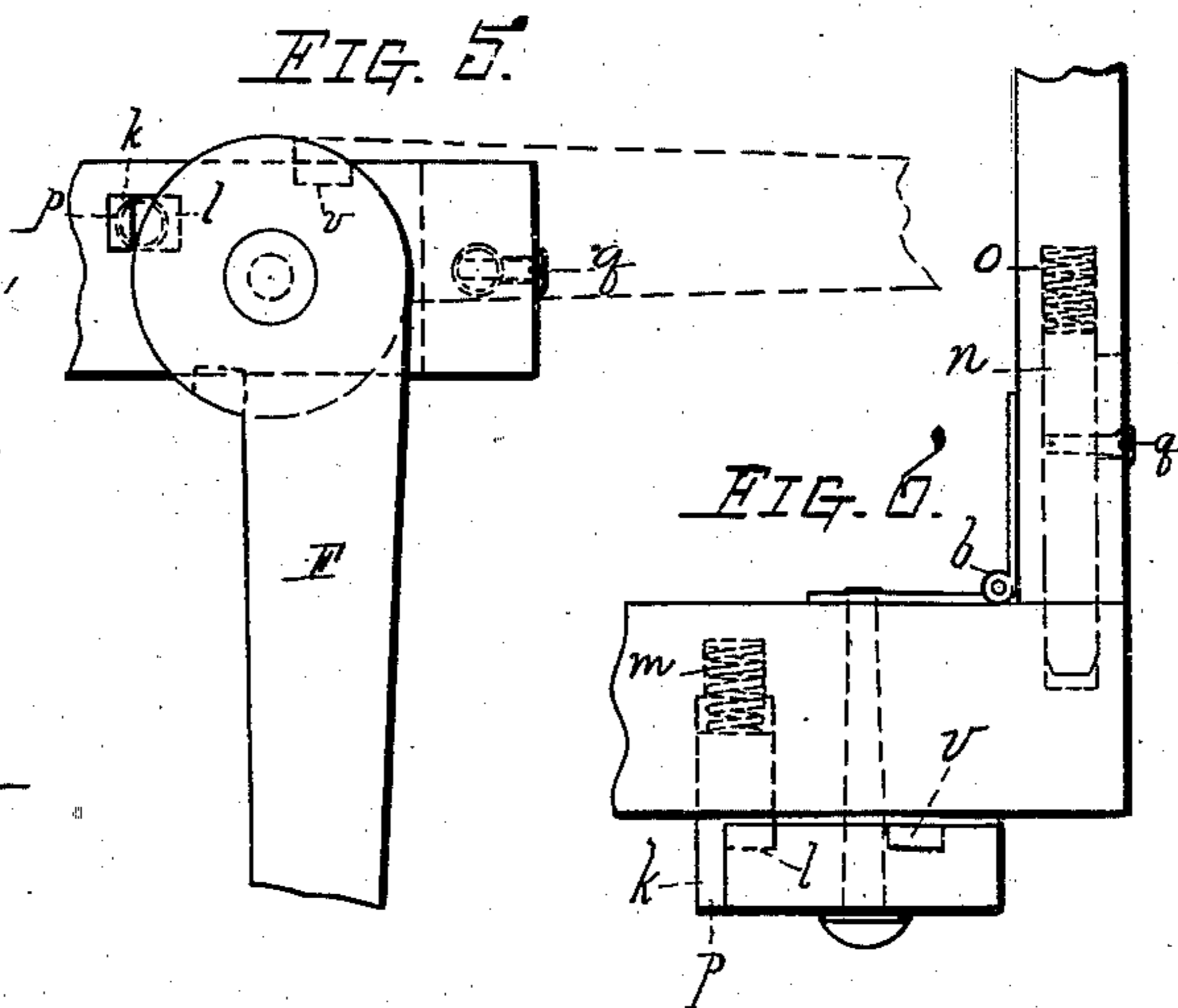
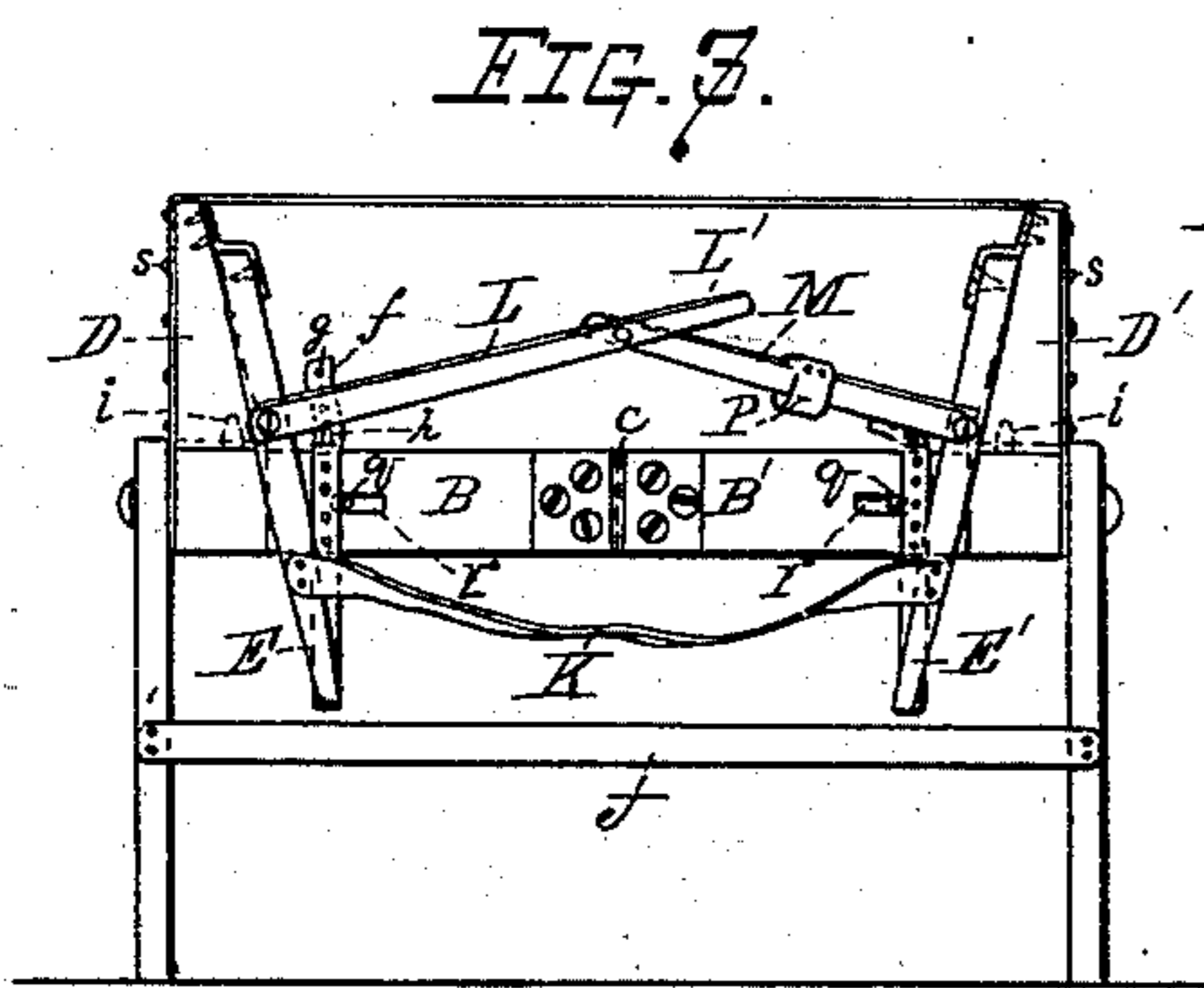
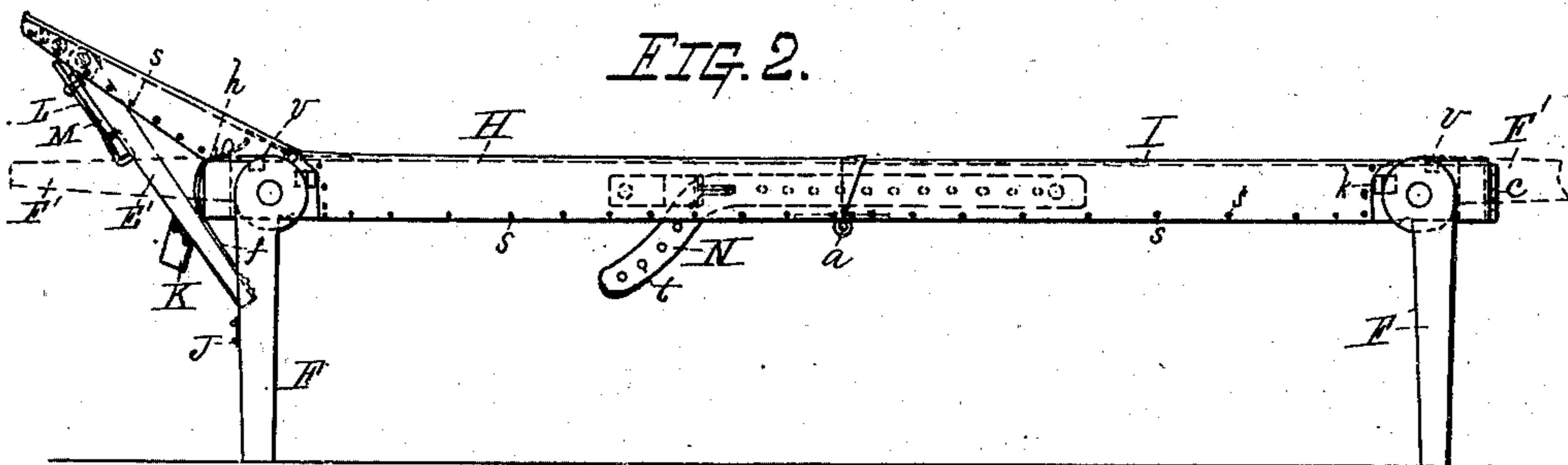
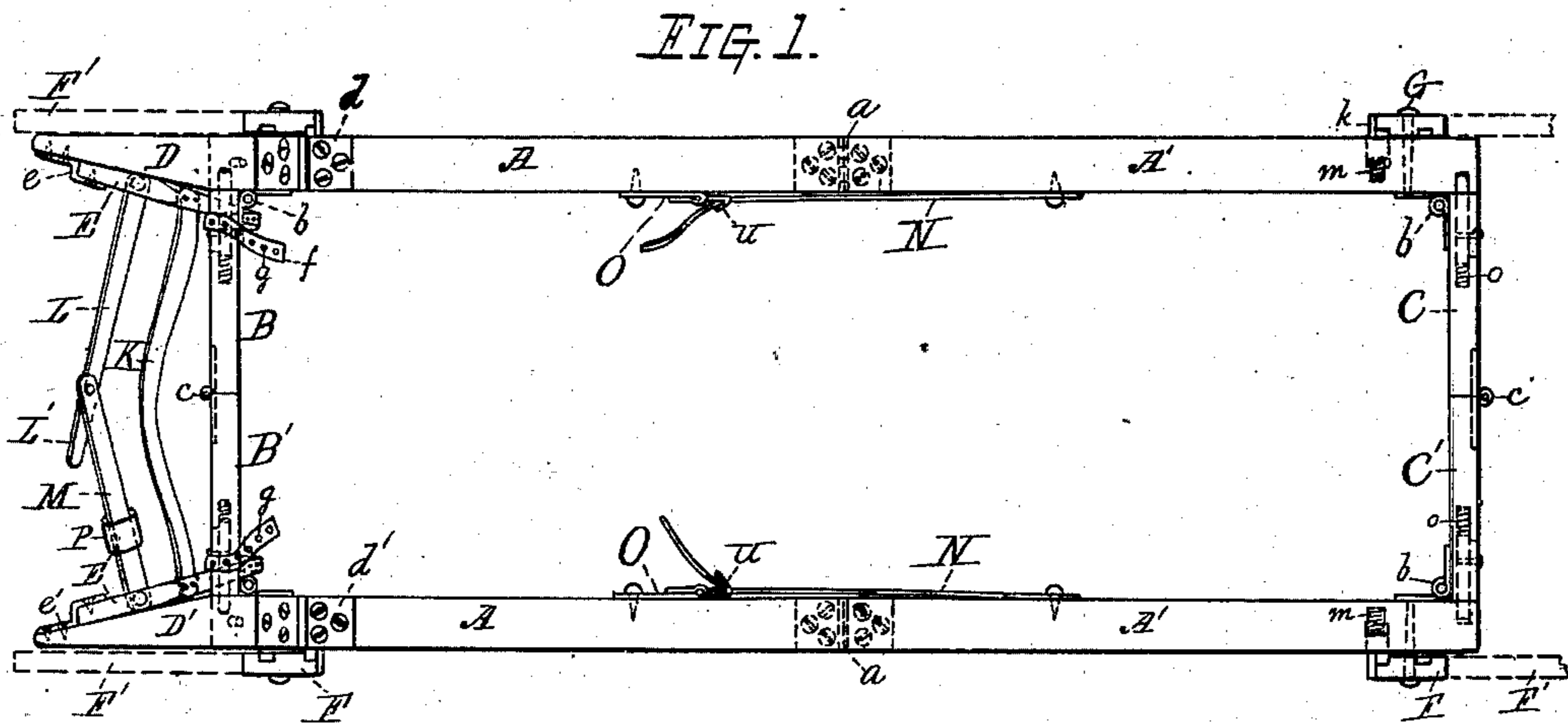
3 Sheets—Sheet 1.

C. P. NASH.

Combined Folding Cot Bed, Litter and Chair.

No. 239,664.

Patented April 5, 1881.



Witnesses:  
Joseph Stearn  
Frank W. Nichols

Inventor:  
Caleb P. Nash

(Model.)

3 Sheets—Sheet 2.

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FIG. 4.

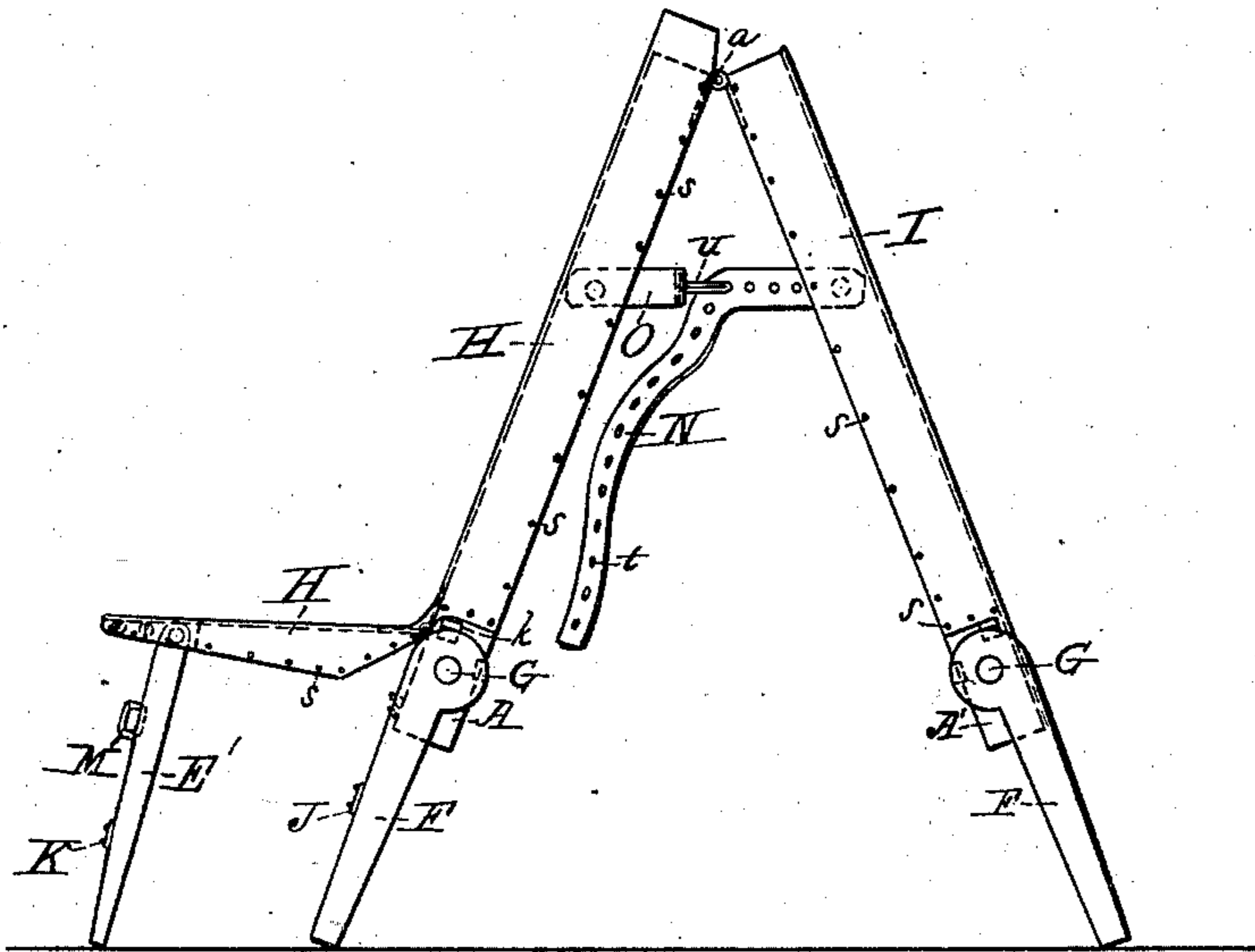
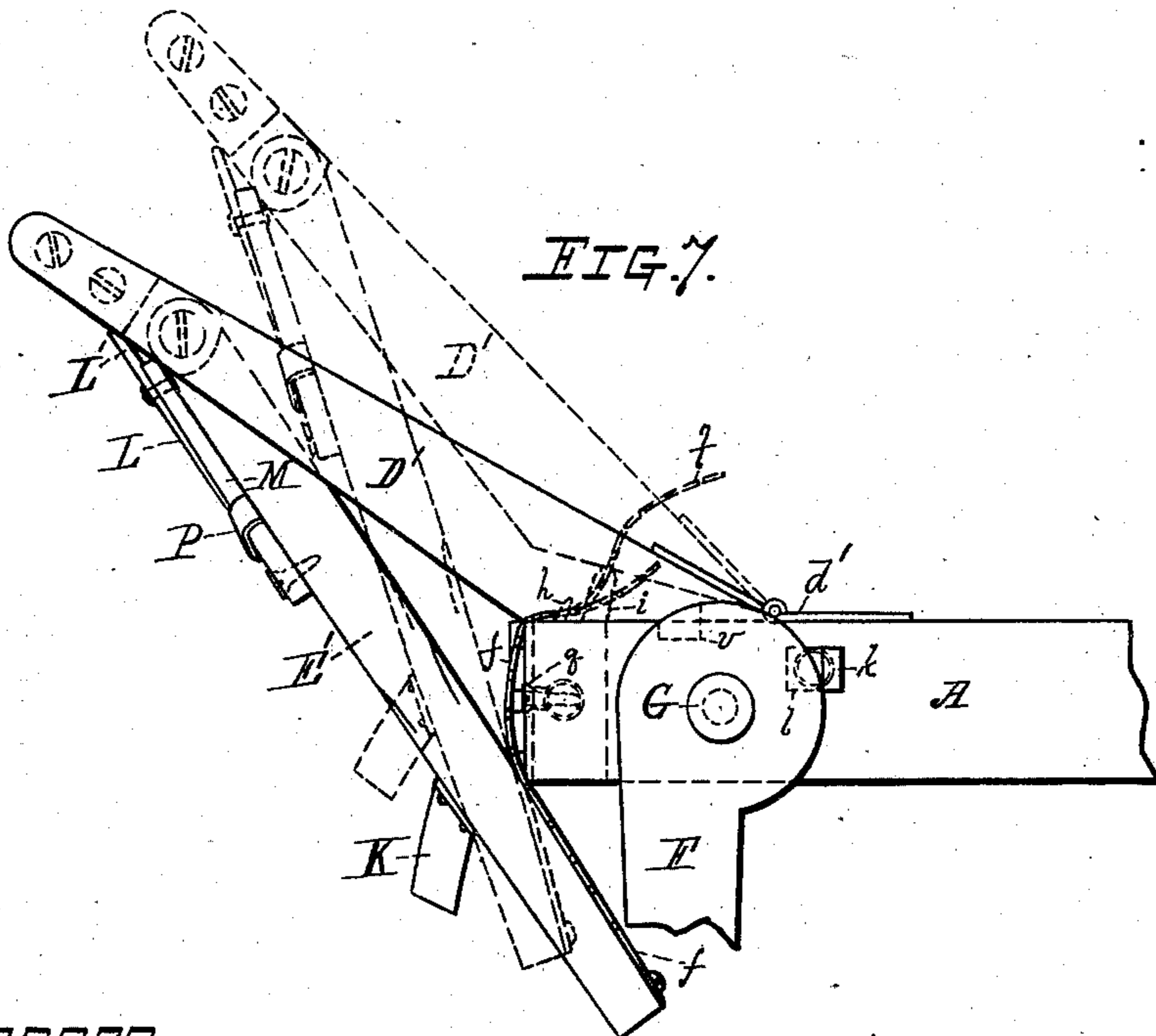


FIG. 7.



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(Model.)

3 Sheets—Sheet 3.

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FIG. 8.

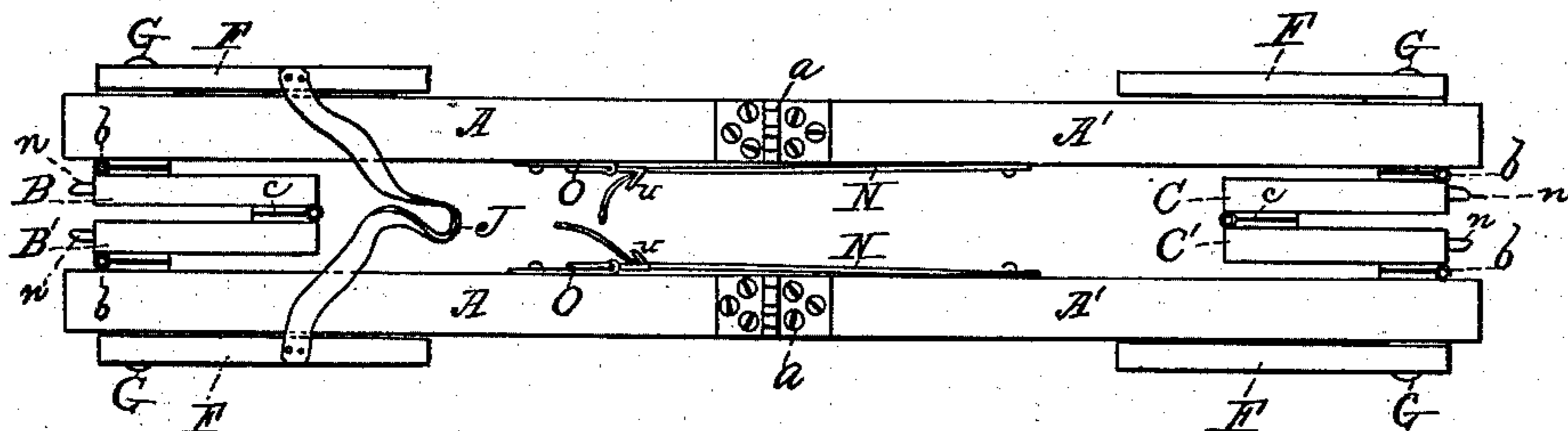
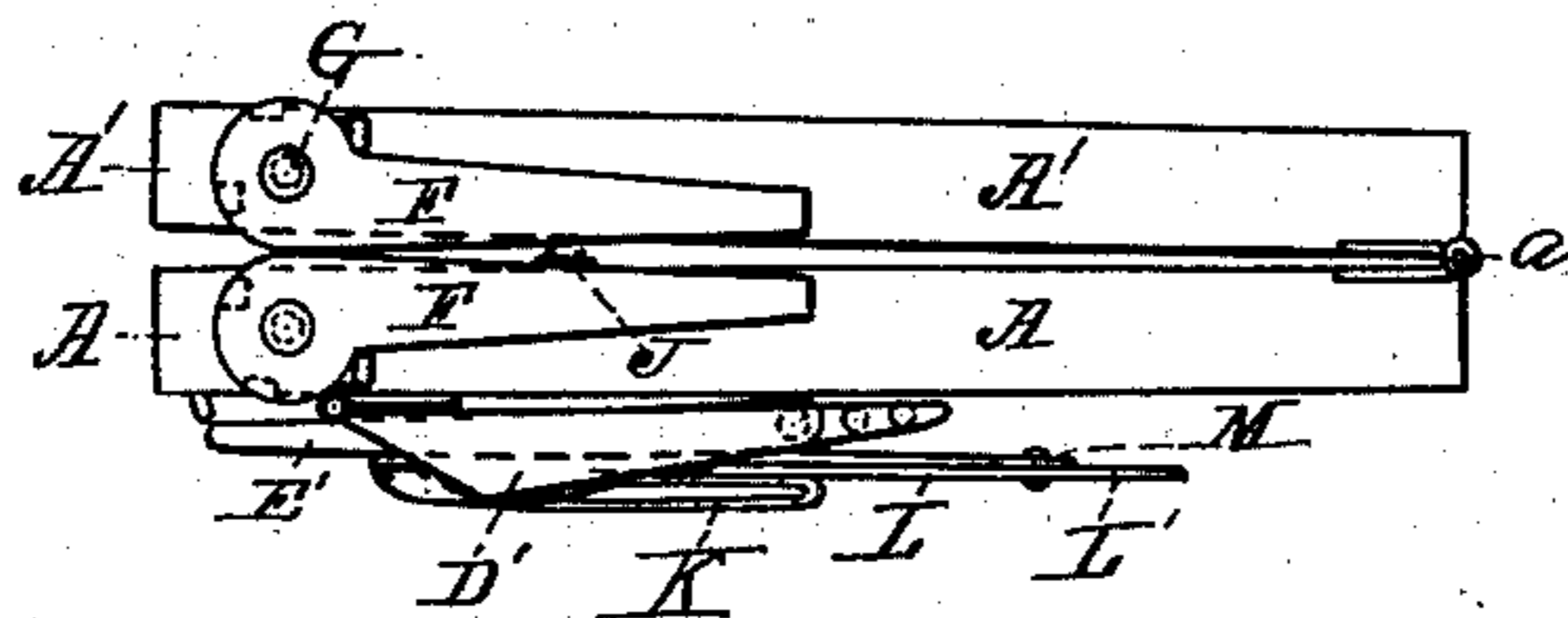


FIG. 9.



Witnesses:

Joseph H. Allen  
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# UNITED STATES PATENT OFFICE.

CALEB P. NASH, OF BRATTLEBOROUGH, VERMONT.

## COMBINED FOLDING COT-BED, LITTER, AND CHAIR.

SPECIFICATION forming part of Letters Patent No. 239,664, dated April 5, 1881.

Application filed July 8, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, CALEB P. NASH, of Brattleborough, in the county of Windham and State of Vermont, have invented a Combined Folding Cot-Bed, Litter, and Chair; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a top or plan view of my invention, with the webbing or covering removed to show the parts more fully, the frame being in this instance adjusted for use as a cot-bed. It is also represented, by full and dotted lines, how it may be used as a litter, as will be hereinafter more fully described. Fig. 2 represents a side elevation of the cot-bed shown in Fig. 1, also showing by dotted lines how it may be used as a litter, as will be hereinafter more fully described. Fig. 3 represents an end elevation of the head of the cot-bed. Fig. 4 represents my invention when adjusted for use as a chair. Figs. 5, 6, and 7 represent, upon an enlarged scale, different portions of my combined folding cot-bed, chair, and litter, which will be hereinafter more fully explained. Fig. 8 represents a top or plan view, upon the same scale as Figs. 1, 2, 3, and 4, of my aforesaid combined folding cot-bed, litter, and chair when partially folded up, the covering H I being left off to more clearly illustrate the several parts; and Fig. 9 represents a side view of the same, showing the frame entirely folded up, as will be hereinafter more fully described.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

For the purpose of convenience I will first describe my invention as applied to a cot-bed, then as a litter, and last as a chair.

In the drawings, the parts marked A A' represent the side frames of the cot-bed, and B B' C C' the head and foot frames of said bed, all of which parts are hinged together, as shown in the drawings, the side frames, A A', being hinged by means of hinges *a*, so that they may be folded and arranged as represented in Fig. 4, and the end frames, B B' C C', by means of hinges *b* and *c*, so that they may be folded in toward the center of the bed, as hereinafter described.

The head of the bed is constructed and arranged so that it may be adjusted and then secured at any angle desired to raise or lower the head in the following manner: Two side pieces, D D', are hinged to the tops of the parts A A' by means of hinges *d d'*, and to said side pieces, D D', are in turn hinged swinging arms or levers E E', by means of angular plates *e e'*, which are secured to the inner sides of the outer ends of said pieces D D'.

To the lower ends of swinging levers E E' are secured straps *f f*, which are provided with holes *g*, so that said straps may be held at any point upon pins *h h* secured to the tops of the parts B B'. Thus by this arrangement it will be seen that by drawing up or letting out straps *f f* levers E E' and side pieces, D D', may be raised or lowered, as desired, and then secured at that point by forcing the straps over pins *h h* through holes *g g*, as above stated. Said pieces D D' are prevented from moving out of their proper position laterally by means of inclined pins *i i*, which are secured in the tops of the parts A A' and fit into holes formed in the under sides of said pieces D D'.

If desired to have the parts D D' rest rigidly upon the side pieces, A A', they may be turned back so as to have a firm bearing upon the upper edges of said frame-pieces, as represented by full lines, Figs. 2 and 7 of the drawings, the pins *i i* keeping said side frames, D D', from springing laterally.

The corner posts or legs, F, of the bed are made adjustable, being arranged to swing upon rods or bolts G, which pass through the side frames, A A' A A', as represented in Figs. 1 and 6 of the drawings, and said standards or legs F are arranged to be locked in two positions—viz., when they are at right angles to the framework of the bed, (see Figs. 2, 5, and 7,) and when they are swung out longitudinally, as represented by dotted lines F', Figs. 1, 2, and 5. Said locking operation is performed as follows: Locking-pieces *k* are arranged in openings formed in the side of the bed-frame, which catch into notches *l v* formed in the circular parts of standards F, being forced forward so that they will catch and hold in said notches *l v* by means of spiral or other springs *m*, which are arranged in the same openings in which the locking-pieces *k* are arranged, as shown in Fig. 6.

The end frame-pieces, B B' and C C', are secured, after having been adjusted into the positions represented in Fig. 1, by means of similar locking devices to those hereinbefore described, pins *n* being in this instance forced into holes or recesses formed in the sides of frames A A' A A' by means of spiral or other springs *o*.

Standards F may be unlocked, so that they can be turned, by pressing upon the ends *p* of locking-pieces *k* and forcing the same back out of their respective notches, while the framework can be unlocked, so that it may be folded up, as hereinafter described, by forcing pins *n* out of their respective openings or receptacles by means of screws or pins *q*, which are secured to pins *n*, slots *r* being formed in the end frames, as represented in Fig. 3, to allow of such backward movement.

The covering of the bed, which may be of canvas or any other suitable material, is secured in two sections, H and I, over the framework hereinbefore described, being tacked or otherwise secured to the sides of said framework, as represented at *s* of the drawings. Said covering H I is left off in Figs. 1, 5, 6, and 7, for the purpose of more clearly illustrating the construction and arrangement of the several parts there shown.

J represents a leather strap, which is secured to standards F to prevent said standards from spreading. A similar safeguard may be provided for the standards at the foot of the bed, if desired. A similar strap, K, and hinged pieces L and M are secured to swinging levers E E', for the purpose of holding said levers in position when the bed is converted into a chair, as hereinafter described.

Straps N N, which are secured to the inner sides of the parts A' and provided with holes *t*, and straps O O, secured to the parts A A' and provided with hooks *u*, are for the purpose of holding said parts A and A' in the position shown in Fig. 4, where the bed is represented as having been converted into a chair.

The operation of converting the bed shown in Figs. 1, 2, and 3 into a litter consists in simply unlocking standards or legs F, as before described, and turning the same so that they will extend outward longitudinally, as represented by dotted lines F', in which position they are locked by locking-pieces *k* being forced into notches *v*, thereby forming convenient handles of standards F, by which to carry the litter so formed.

In converting the bed into a chair, as represented in Fig. 4, the standards F are first swung out and locked in the same manner as for a litter. The frame and standards are then swung toward each other and arranged at a proper angle, as represented in said Fig. 4, and there secured in position from falling by passing the hooks *u* of straps O through the proper holes *t* in straps N. The side pieces, D D', are now swung up and the swinging levers E E' forward into the positions represented in Fig. 4, after which the hinged pieces L and

M are adjusted so that they will be upon a straight line with each other, and a sliding collar, P, is passed over the end L' of the part L, thereby holding said part L and part M firmly together, which operation prepares the chair ready for use, the head part of the cot-bed forming the seat when the same is used as a chair.

It will therefore be seen that by my invention either a bed, litter, or chair may be quickly and easily converted from one to the other, as occasion may require.

The several parts being hinged, as before described, they may be folded together in a very compact form for transportation, storage, or for any other purpose, in the following manner:

Supposing the parts to be adjusted for use as a cot-bed, as represented in Figs. 1, 2, and 3, the first operation of folding up the same, as aforesaid, is to swing standards F in toward the center of the bed, so that they will be upon a line with side frames, A A', as represented in Fig. 8. The end pieces, B B' and C C', are next folded in toward the center of the bed, as also represented in said Fig. 8, thereby bringing the side frames, A A' A A', toward each other, as shown. Said side frames, A A', are now folded over and against each other and the adjustable head parts folded against the parts A, as represented in Fig. 9, when the operation is completed, thus, as will be seen, folding the several parts into a very compact form, as represented by said Fig. 9.

If preferred, the ends may be made fixed or rigid. In this case the device could not be folded up quite so compactly, but nevertheless it could be folded into a very convenient form.

The pieces D D' may be made straight, if preferred, on their inner sides, and may also be made to stand at a greater or less angle with the horizon when resting upon the rails or side pieces, A A'. The holding-straps, too, may be made to fasten in a different manner from that shown without departing from the principle of my invention, and I do not therefore limit my invention to having the end pieces hinged, or the special construction, so long as the principle of the invention is retained in the structure.

Having described my combined folding cot-bed, litter, and chair, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. The combination of the side frames, hinged in the middle of their length, the end frames, hinged in the middle of their length, and hinges *b*, common to both frames, with spring locking-pins *n*, inclosed within the end frames and adapted to enter the side frames, substantially as and for the purpose described.

2. The combination of the side frames, hinged in the middle of their length, standards or legs F, pivoted thereto and provided with notches *v*, with spring locking-pieces *k* projecting from the side frame, substantially as and for the purpose set forth.

3. The combination of the side frames, hinged in the middle of their length, side pieces, D D', and angular plates *e e'* with pivoted supports E E', straps *f*, and pins *h*, substantially as and for the purpose described.

4. The combination of the side pieces, D D', pivoted supports E E', and pivoted locking-braces LM with sliding collar P, substantially as and for the purpose set forth.

5. The combination of the side frames, hinged in the middle of their length, end frames hinged thereto, side pieces, D D', supports E E', legs F, and locking-braces LM with holding-straps N and hooks, substantially as and for the purpose described.

6. The combination of side frames, hinged in the middle of their length, side pieces, D D',

and steadying-pins *i* with pivoted supports E E', strap K, adjusting-strap *f*, and holding-pins *h*, substantially as and for the purpose set forth.

7. As an improved article of manufacture, a combined folding cot-bed, litter, and chair having legs or handles pivoted to the side frames, and provided with notches *v* for the reception of spring-catches inserted within said side frames, a rest formed of side pieces, D D', hinged to the side frames, and braces or supports E E', provided with straps, substantially as and for the purpose described.

CALEB P. NASH.

Witnesses:

JOSEPH STEEN,  
FRANK W. NICHOLS.