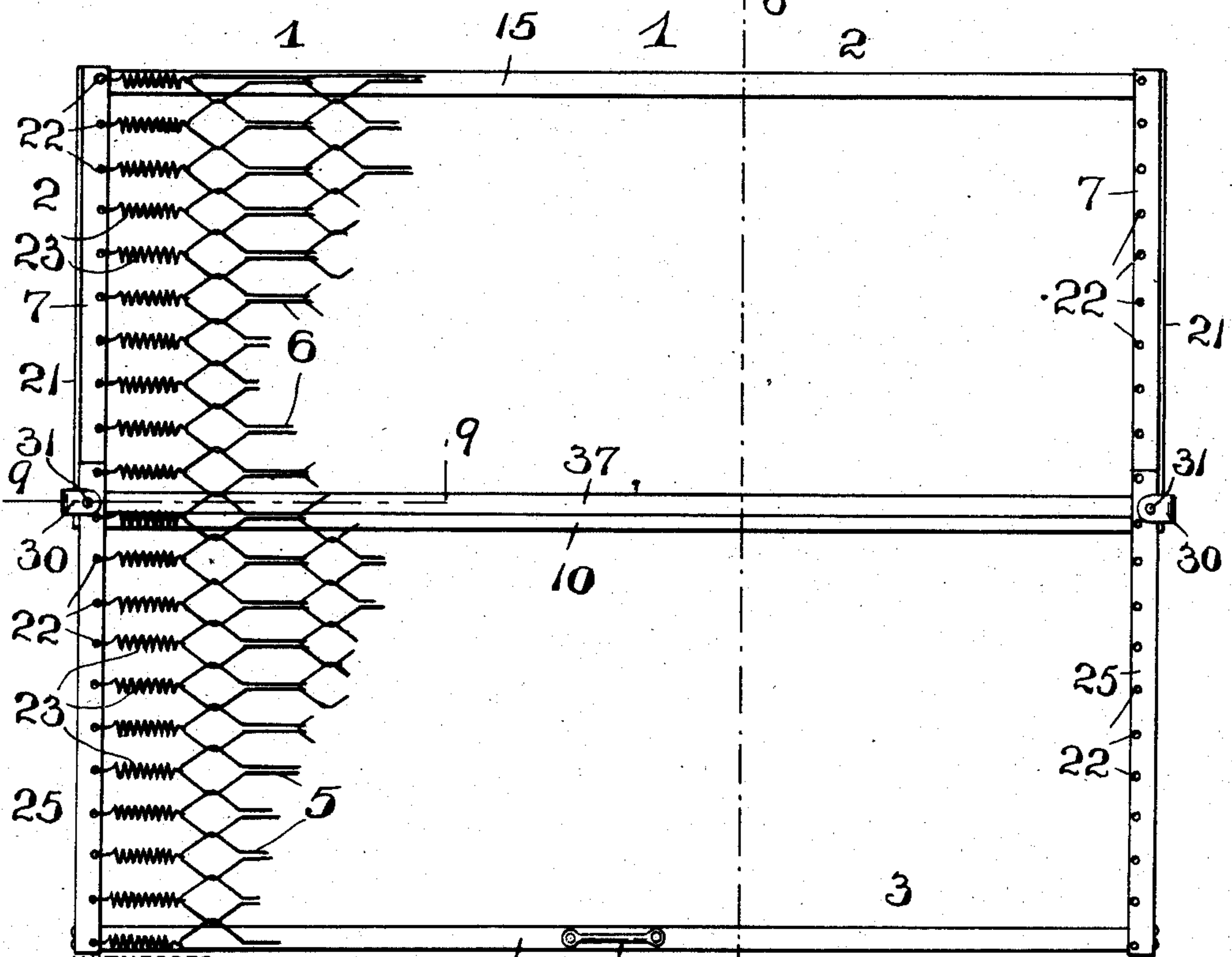
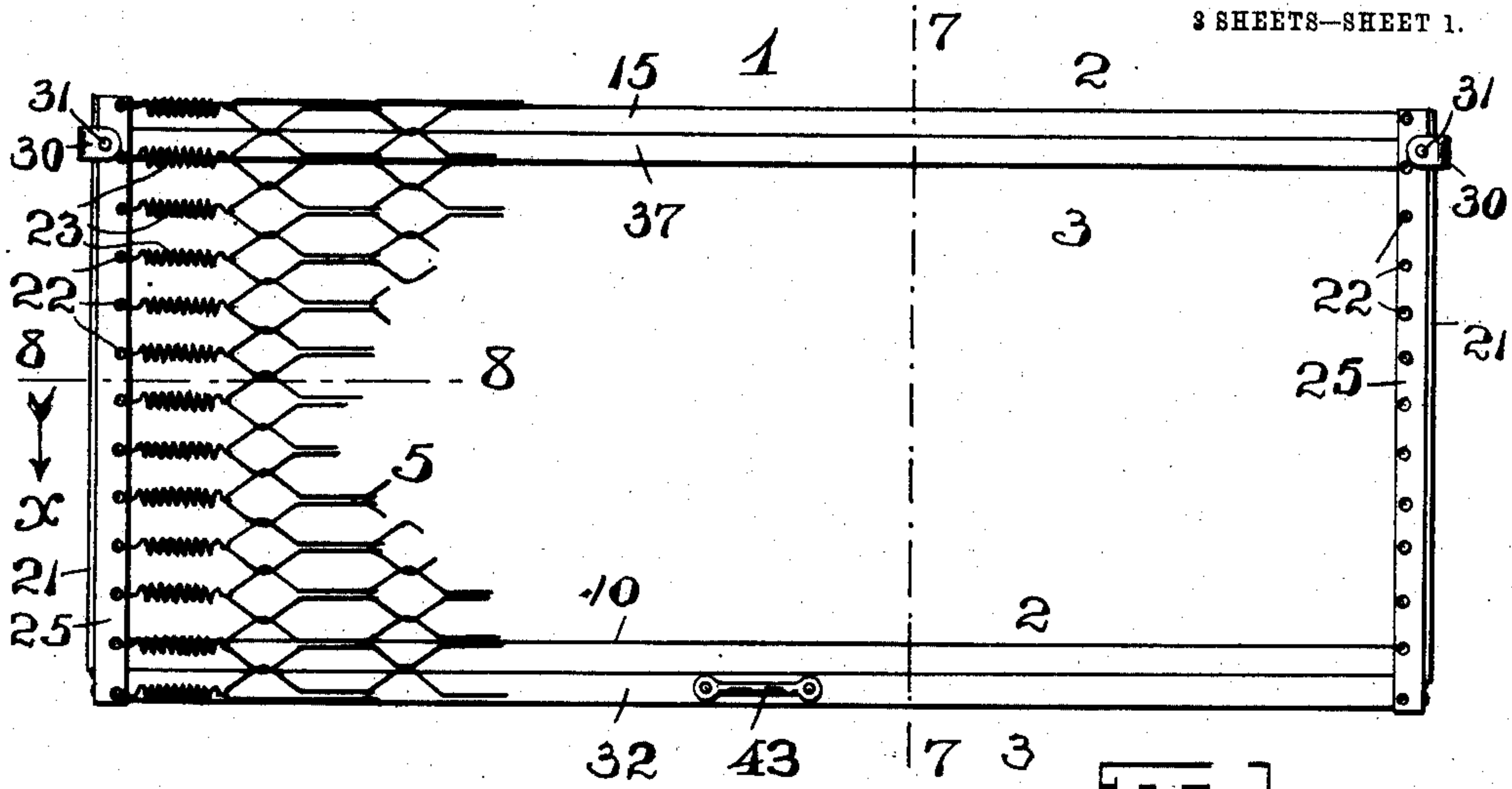


J. SCHWARTZMAN.  
EXTENSION BED OR SLIDING COUCH.  
APPLICATION FILED APR. 10, 1908.

905,466.

Patented Dec. 1, 1908.

3 SHEETS—SHEET 1.



WITNESSES:

*F. K. W. Fraentzel*  
*Anna H. Adler*

**Fig. 2**

INVENTOR:

6 Jacob Schwartzman,

BY *Fraentzel and Richards*  
ATTORNEYS:

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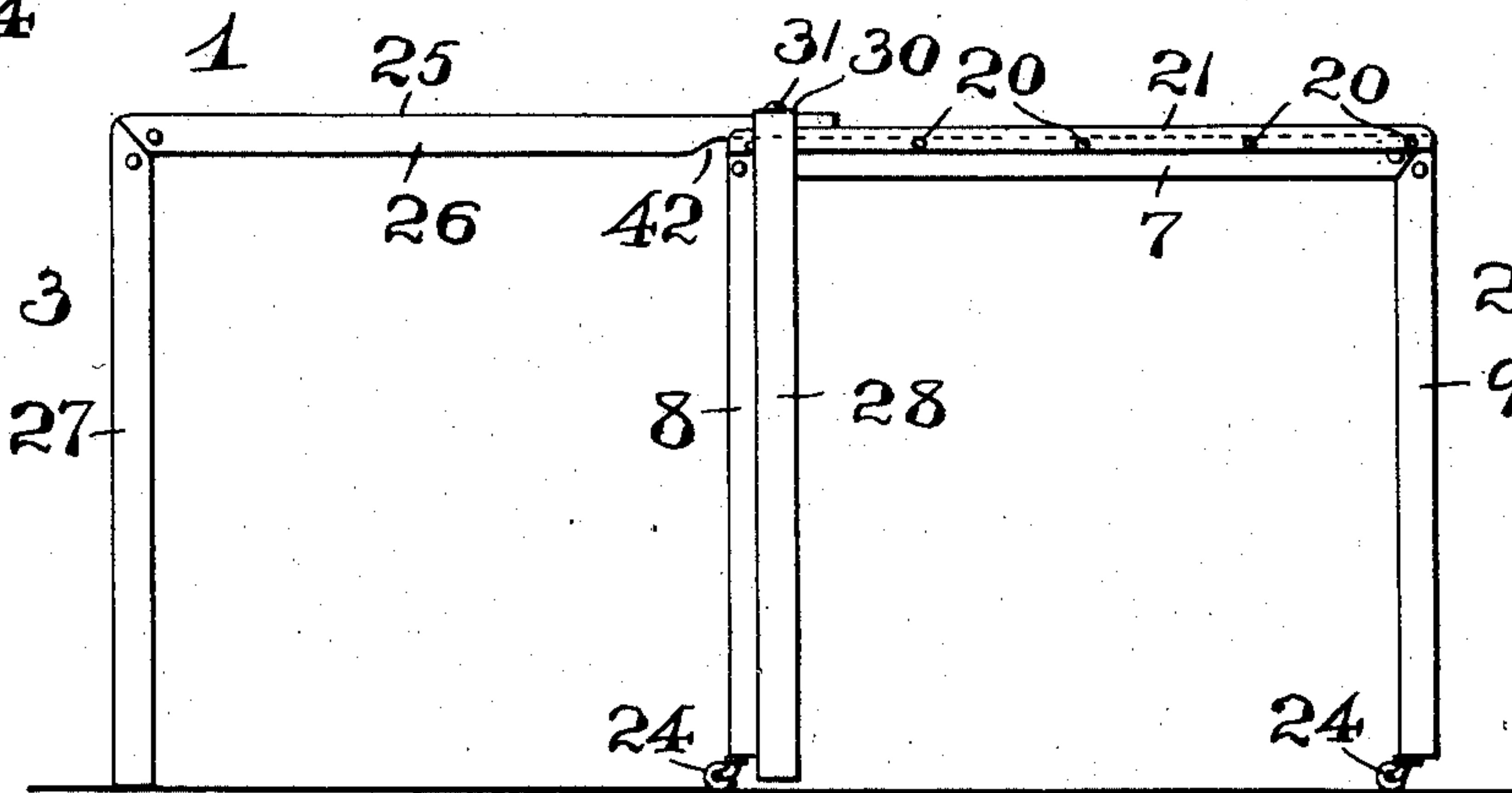
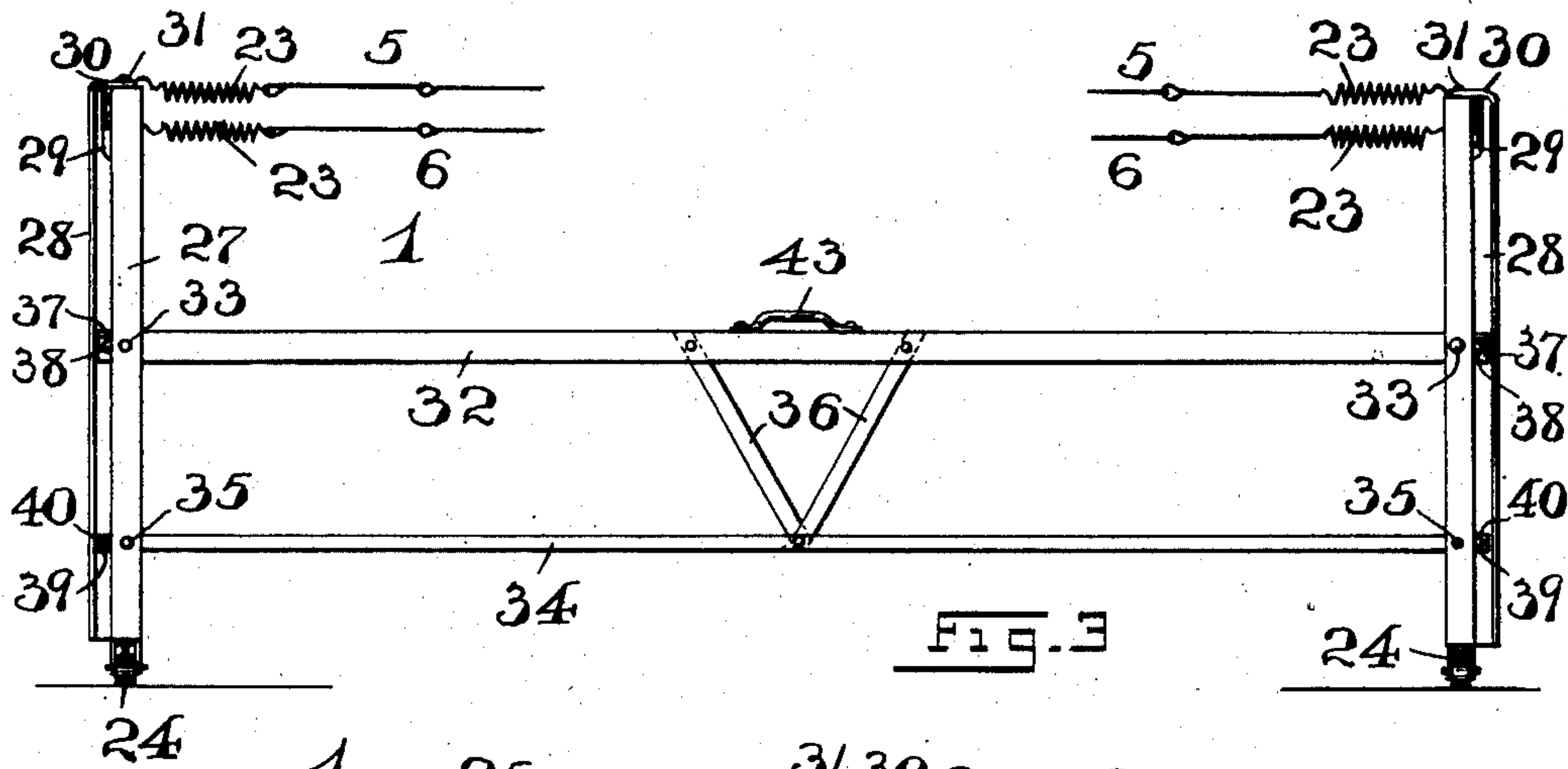


FIG. 4

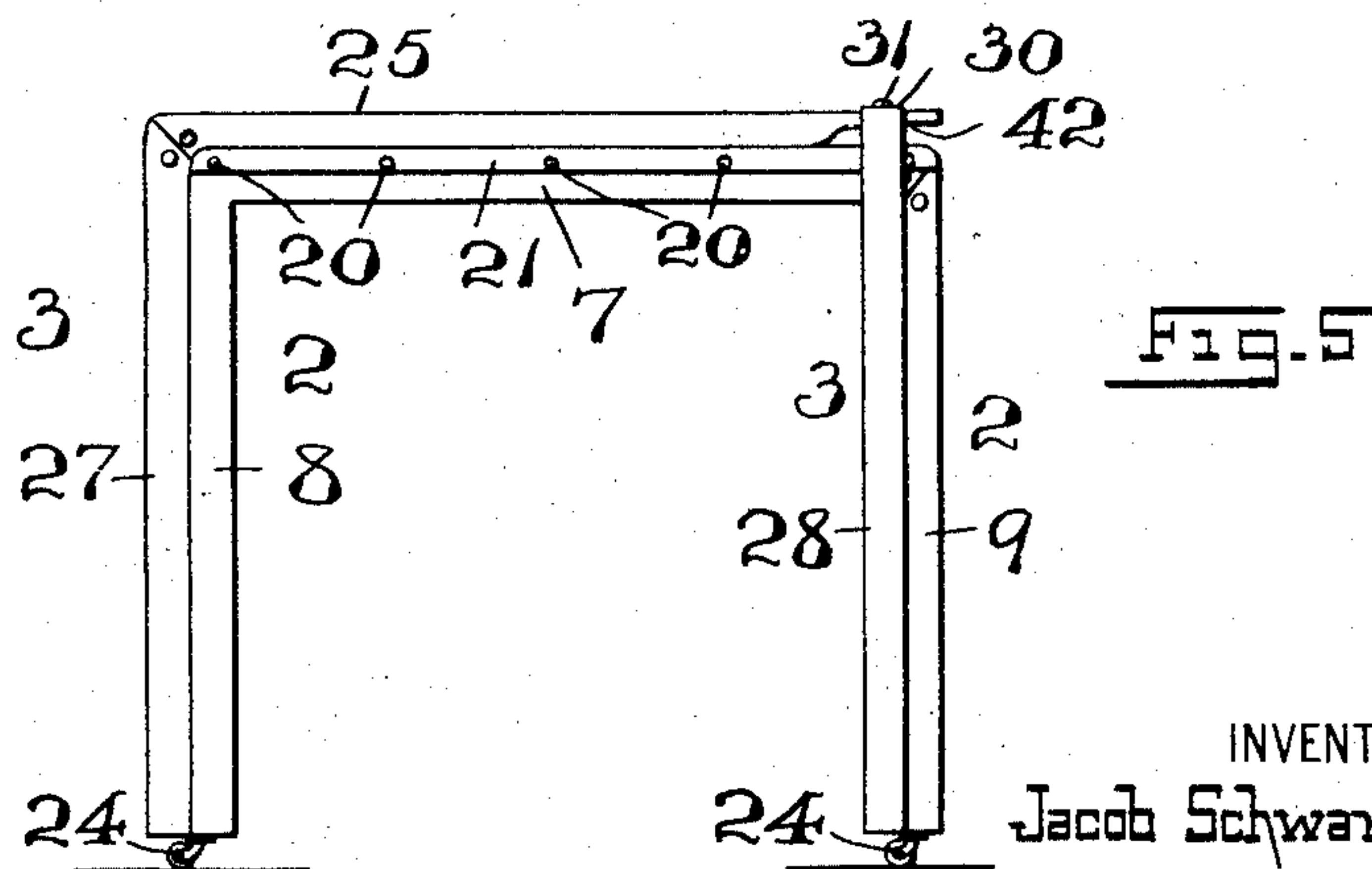


FIG. 5

WITNESSES:  
*J. H. W. Fraentzel*  
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3 SHEETS—SHEET 3.

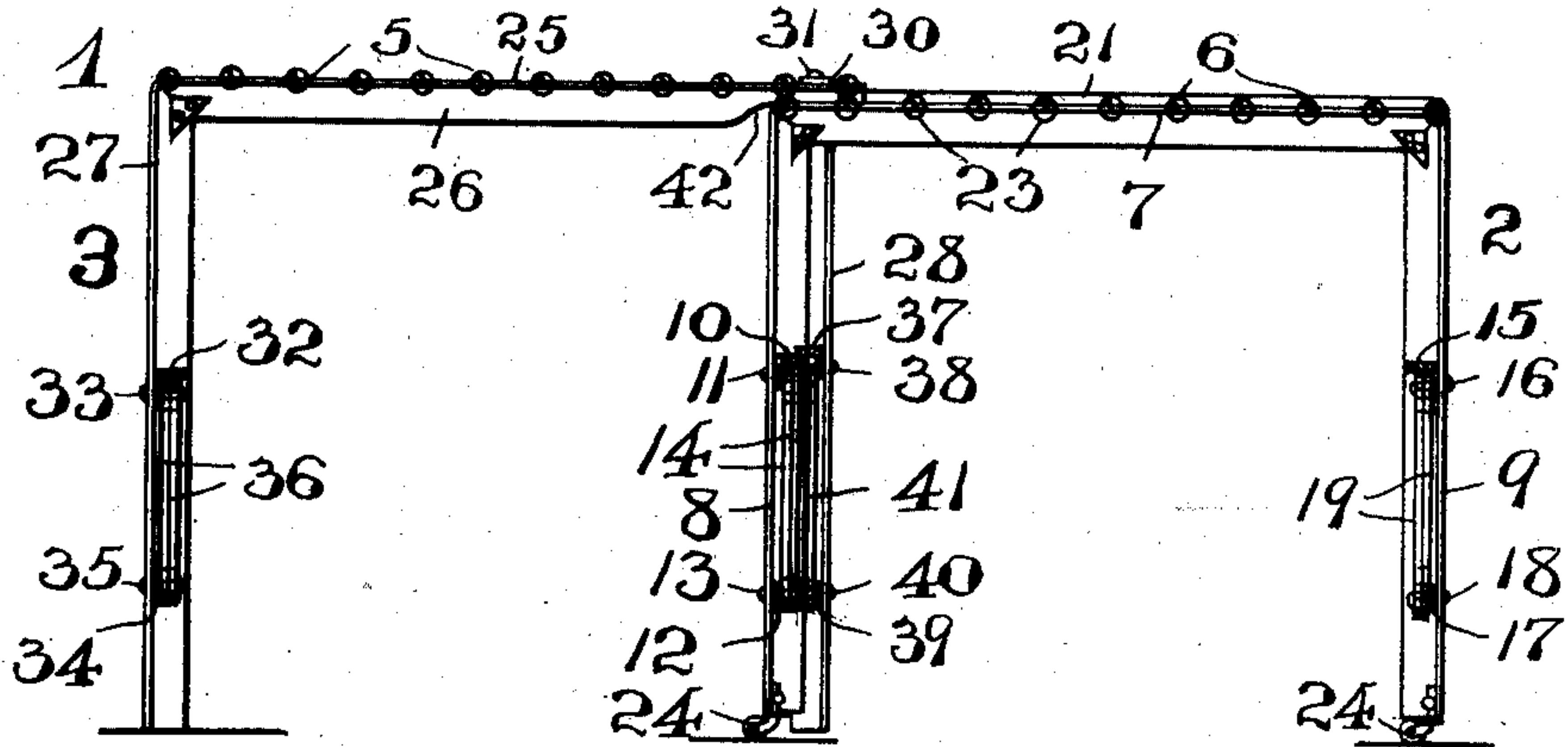


Fig. 6

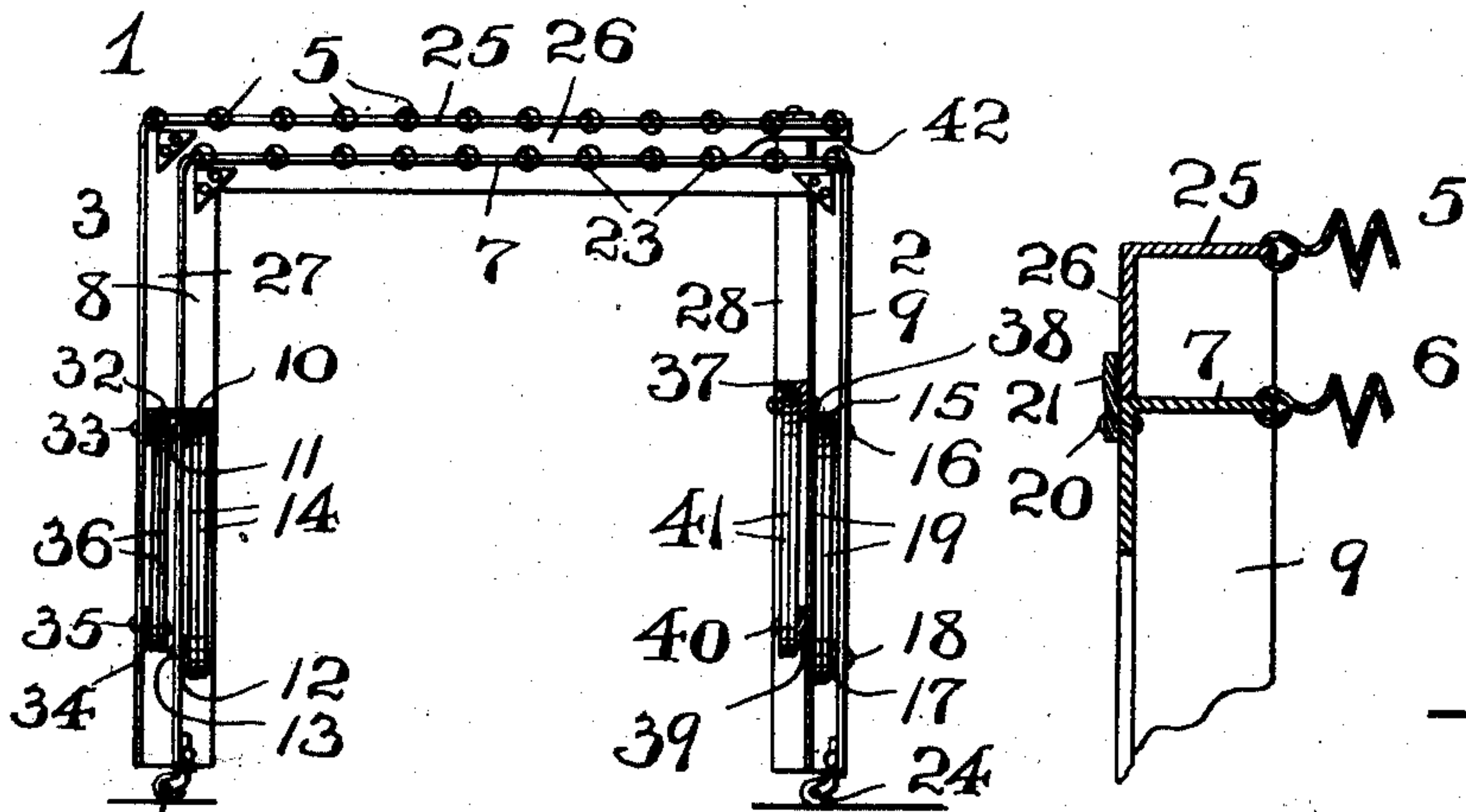


Fig. 7

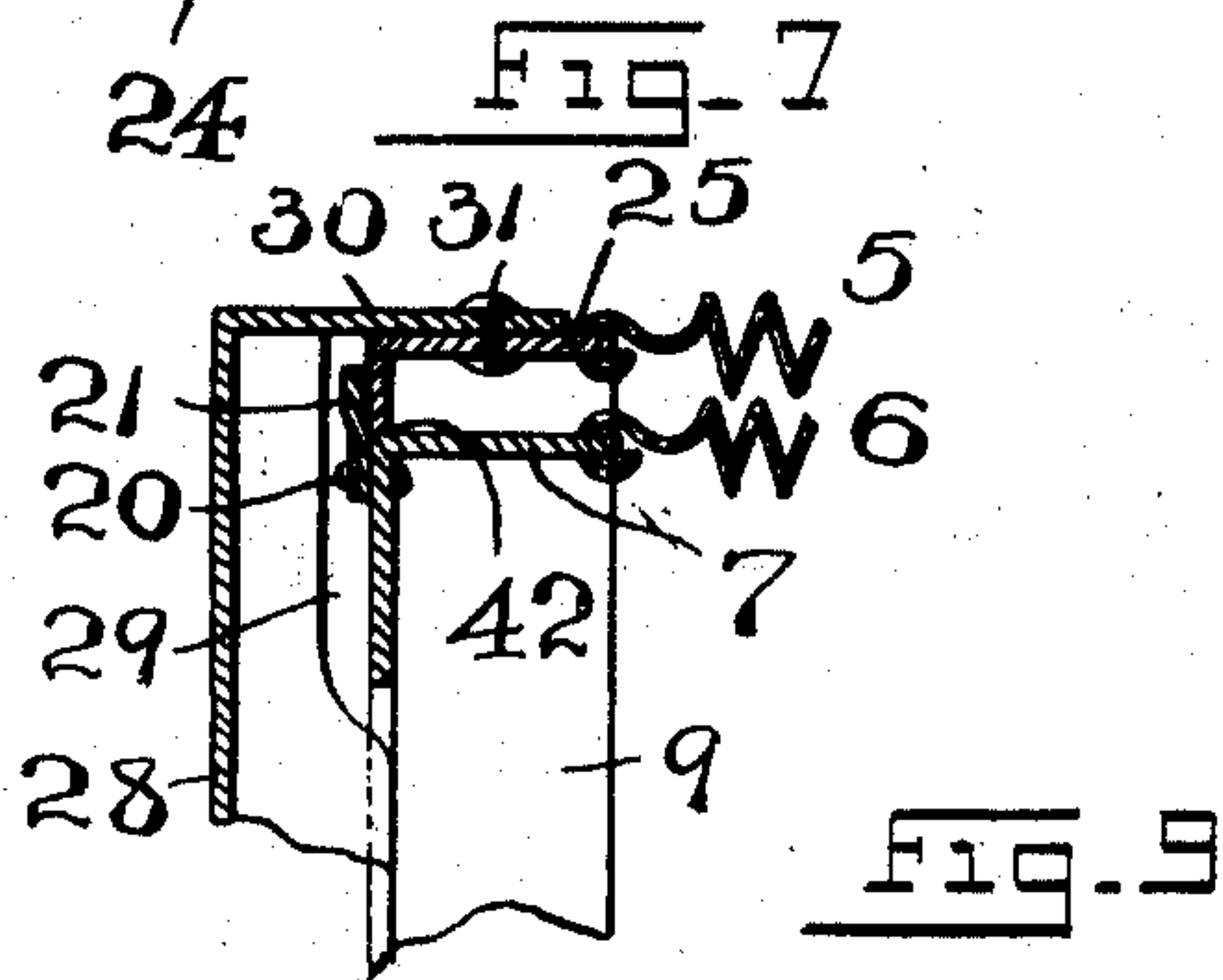


Fig. 9

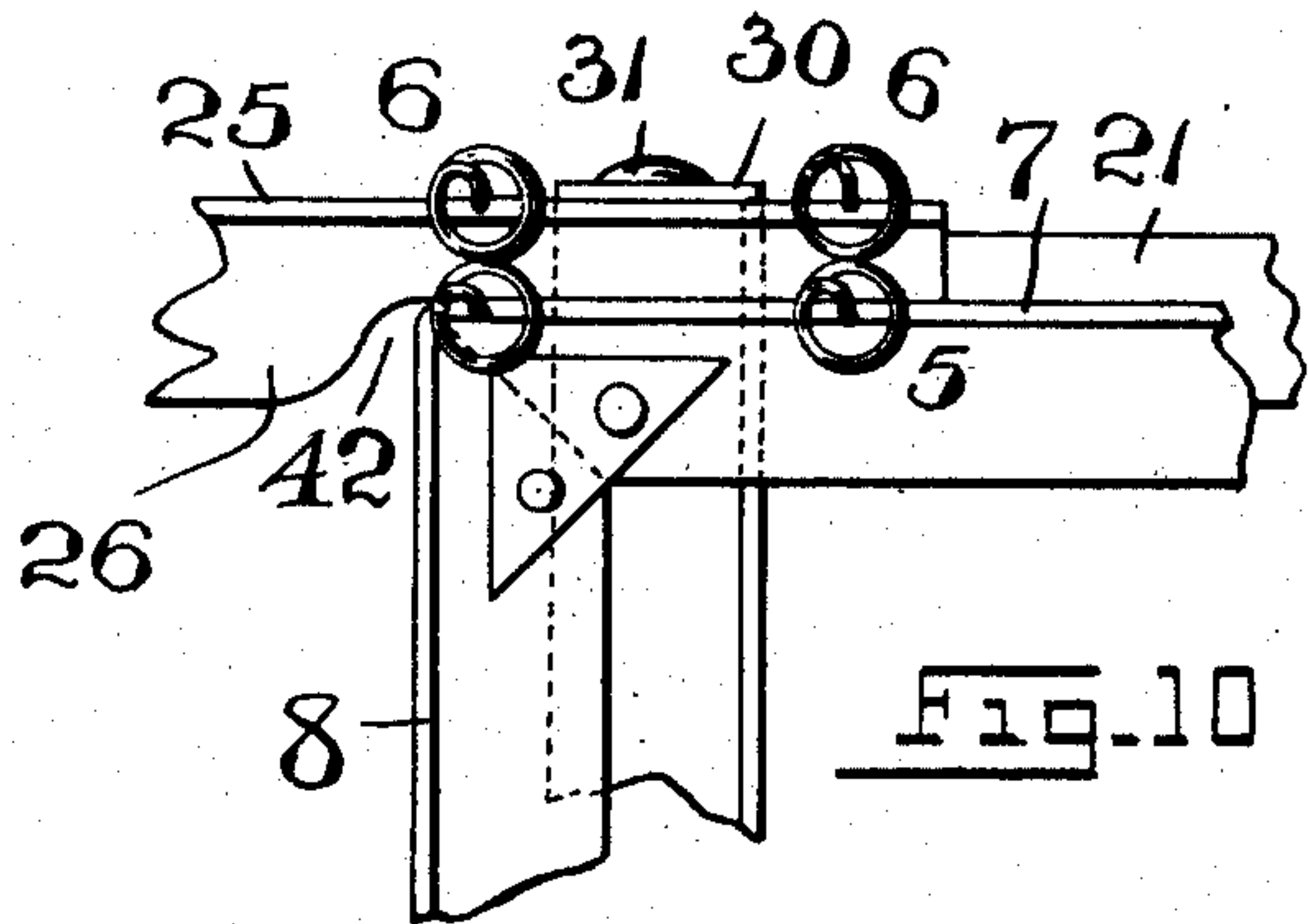


Fig. 10

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ATTORNEYS.



# UNITED STATES PATENT OFFICE.

JACOB SCHWARTZMAN, OF NEWARK, NEW JERSEY.

## EXTENSION-BED OR SLIDING COUCH.

No. 905,466.

Specification of Letters Patent.

Patented Dec. 1, 1908.

Application filed April 10, 1908. Serial No. 426,182.

*To all whom it may concern:*

Be it known that I, JACOB SCHWARTZMAN, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Extension-Beds or Sliding Couches, and 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, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

This invention has reference, generally, to improvements in metal extension-beds or couches; and, the present invention relates, more particularly, to a novel construction of sliding or extension bed or couch, the same comprising slidably disposed couch-members or elements, usually two of them, one member being adapted to slide over and above the other member, as will hereinafter more fully appear.

The present invention has for its principal object to provide a novel and simply constructed extension bed or a couch comprising at least two bed or couch-sections, the two sections being arranged and constructed in such a manner that they can be closed or nested, so as to form a single bed, the one section which I shall hereinafter term the lower and fixed couch-section having slidably arranged above its bed-spring another section which I shall hereinafter term the upper and movable couch-section.

The invention has for its further object to provide an extension-bed or sliding couch, comprising such lower and fixed couch-section and such upper and movable couch-section, said upper and movable couch-section being adapted to be drawn out or extended at one side of the lower or fixed couch-section, without during the drawing-out operation bringing the legs or supports of the upper and movable couch-section in contact with the floor or the carpet, and said upper and movable couch-section when fully drawn out, dropping down to the level of the said lower and fixed couch-section, so as to provide an open full size or double-bed, the metallic fabric or mattress-supports of the two extended couch-sections being level with each other, so that there can be no raised

portion extending along the middle of the bed to the discomfort of the sleepers.

A further object of this invention is to provide a novel arrangement of lower and fixed couch-section and upper and movable couch-section, which permits of the two sections to be easily and quickly brought into their separated relation, so that the two couch-sections can be used independent of each other, as single beds.

Other objects of this invention not at this time more particularly enumerated will be clearly evident from the following detailed description of the present invention.

With the objects of the present invention in view, the same consists, primarily, in the novel extension-bed or bed-couch hereinafter set forth; and, the invention consists, furthermore, in the novel arrangements and combinations of devices and parts, as well as in the details of the construction of the same, all of which will be hereinafter more fully described and then finally embodied in the clauses of the claims which are appended to and which form an essential part of this specification.

The invention is illustrated in the accompanying drawings, in which:—

Figures 1 and 2 are a plan view of an extension-bed or couch-bed showing one embodiment of the present invention, said view illustrating the couch-sections in their respectively closed and opened-out relations, as a single bed or couch as represented in Fig. 1, and a double bed or couch as illustrated in Fig. 2. Fig. 3 is a front elevation of the extension-bed or couch-bed; Fig. 4 is an end view of the same when the couch-sections are in their extended relations; and Fig. 5 is a similar view of the two couch-sections when in their nested or closed relation. Fig. 6 is a transverse section, taken on line 6—6 in Fig. 2; and Fig. 7 is a similar section, taken on line 7—7 in Fig. 1. Fig. 8 is a detail cross-section, taken on line 8—8 in Fig. 1, looking in the direction of the arrow *x*; and Fig. 9 is a similar detail section, taken on line 9—9 in Fig. 2, both views being made on enlarged scales. Fig. 10 is a detail face view of one of the upper corners of the lower and fixed couch-section, and a portion of one of the side-members of the upper and movable couch-section, said view showing the positions of the parts



when the upper and movable couch-section has been pulled out to its fullest extent.

Similar characters of reference are employed in all of the above described views, 5 to indicate corresponding parts.

Referring now to the several figures of the drawings, the reference-character 1 indicates a complete extension-bed or couch-bed, the same comprising a lower and fixed 10 couch-section 2 and an upper and movable couch-section 3, said latter section having its mattress-support or metal fabric 5 slidably arranged above the mattress-support or metal fabric 6 of the lower and fixed couch- 15 section 2, substantially in the manner and for the purposes to be presently more fully described. The said lower and fixed couch-section 2 comprises a pair of end-pieces, said end-pieces forming standards or supports. 20 These end-pieces are preferably made of angle-iron and comprise the laterally extending portions or members 7, suitably bent at right-angles at two different points so as to provide each end-piece with a pair of legs 25 or posts 8 and 9, which form with the said portions or members 7, the above-mentioned standards or supports of the lower and fixed couch-section. The said legs or posts 8 are stiffened by means of a longitudinally extending bar or member 10, also preferably 30 made of angle-iron, said bar being secured at its respective ends by means of rivets, pins or screws 11 to said legs or posts 8. Another brace, as 12, which is secured by 35 means of rivets, pins or screws 13 at its respective ends to said legs or posts 8 may also be employed, and the bars 10 and 12 may be additionally stiffened by means of braces, as 14. In a like manner, the legs or 40 posts 9 are stiffened by means of a longitudinally extending bar or member 15, also preferably made of angle-iron, said bar being secured at its respective ends to said legs or posts 9 by means of rivets, pins or 45 screws 16. Another brace, as 17, which is secured by means of rivets, pins or screws 18 at its respective ends to said legs or posts 9 may also be employed, and the bars 15 and 17 may be additionally stiffened by 50 means of braces 19.

Suitably secured against the outer face of each portion or member 7, by means of rivets, pins or screws 20, is an upwardly projecting guide-bar or plate 21, substantially 55 as shown and for the purposes to be presently more fully described. Each portion or member 7 is also provided with suitably disposed holes or perforations 22 in which are secured the end-portions of suitably formed coiled springs 23 between which 60 is mounted any suitably constructed metal fabric forming the mattress-support 6 of the lower and fixed couch-section 2. Casters or rollers 24 are suitably secured to the lower 65 ends of the said legs or posts 8 and 9. Slid-

ably arranged above this mattress-support 6 and the end-pieces or standards of the said lower and fixed couch-section 2 are the mattress support 5 and portions of the end-pieces of the upper and movable couch-section 3. This said upper and movable couch-section comprises a pair of end-pieces 25, 70 preferably made of angle-iron, each downwardly extending portion or member 26 of said end-pieces 25 resting normally upon the upper surfaces of the portions or members 7, 75 and being slidably disposed thereon between the respective guide-bars or plates 21. At their front end-portions, the said end-pieces 25 are bent downwardly, at right angles or 80 approximately so, to form the legs or posts 27, which are also L-shaped in cross-section. At or near the rear end-portion of each end-piece 25 is a leg or post 28 which is also 85 made of angle-iron, so as to be L-shaped in cross-section, each leg or post 28 being cut-away, as at 29, and having the upper portion of each leg formed with a member 30, bent at right-angle or approximately so, each 90 member 30 extending over the upper surface of each end-piece or portion 7, and being secured thereto by means of rivets, pins or screws 31. The said legs or posts 27 are 95 stiffened by means of a longitudinally extending bar or member 32, also preferably made of angle-iron, said bar being secured at its respective ends by means of rivets, pins or screws 33 to said legs or posts 27. Another brace, as 34, which is secured by means 100 of rivets, pins or screws 35 at its respective ends to said legs or posts 27 may also be employed, and the bars 32 and 34 may be additionally stiffened by means of braces 36. In 105 a like manner, the legs or posts 28 are stiffened by means of a longitudinally extending bar or member 37, also preferably made of angle-iron, said bar being secured at its respective ends to said legs or posts 28 by means of rivets, pins or screws 38. Another 110 brace, as 39, is secured by means of rivets, pins or screws 40 at its respective ends to said legs or posts 28, and the bars 37 and 39 may be additionally stiffened by means of braces 41.

As shown, the downwardly extending portion or member 26 of each end-piece 25 is 115 cut-away at its rear end-portion, as at 42, and each leg or post 27 and 28 of the upper and movable couch-section is minus a roller or caster as shown, so that while the two 120 couch-sections are in their closed relation, with the lower edge of each portion or member 26 resting upon the upper surface of a portion or end-piece 7, it will be seen that the lower ends of the said legs or posts will 125 be entirely removed from contact with the floor or carpet. It will also be evident, that when the upper or movable couch-section is pulled in its forward direction, by means of a handle 43 secured to the bar or member 32, 130



so as to produce the extended double-bed, the lower end-portions of the said legs or posts 27 and 28 will not be brought in contact with the floor or carpet until such time when the sliding movement of the upper and movable couch-section has been completed, and the cut-away portions 42 at the rear end-portion of each member 26 drops down directly upon the upper surface-portions of the end-pieces 7, at or near the legs or posts 8 of the lower and fixed couch-section 2. This arrangement of parts is clearly illustrated in Figs. 2, 4, 6, 9 and 10 of the drawings, and it will be clearly evident from an inspection of Figs. 4 and 6, that, when the upper and movable couch-section has been drawn out to its fullest extent, the lower end-portions of the legs or supports 27 will rest directly upon the floor or carpet and that the extended mattress supports or metal fabrics 5 and 6 will be substantially continuous or horizontal, so that there will be no raised portion extending longitudinally along the middle of the extended double-bed, as is ordinarily the case with the forms of extension beds or couch-beds as now ordinarily made. The lower edge-portions of the members 26 which form part of the end-pieces 25 of the said upper and movable couch-section 3 resting directly upon and sliding upon the upper surfaces of the end-pieces or portions 7 of the lower and fixed couch-section 2, and being suitably disposed between the respective guide-plates of the said end-pieces 7, the said upper and movable couch-section 3 can be easily moved back and forth upon the said lower and fixed couch-section without any danger of the two mattress supports interfering with each other, and without any danger of the legs or posts 27 and 28 during the sliding movements of the upper and movable couch-sections coming in contact with the floor or carpet, whereby the possibility of marring the flooring or tearing of the carpet is clearly overcome. The sliding movement of the said upper and movable couch-section, in either direction, is limited by the contacting of the respective bars or braces upon the respective couch-sections with each other, as will be clearly evident from an inspection of several figures of the drawings.

It will be clearly evident from the foregoing description of my present invention that I have provided a simply constructed extension bed or couch-bed which may be used as a single couch, and can be easily operated so as to be extended to provide a double bed, the two couch members, as will be clearly evident, at the same time being separable so that two independent couches can be made to be used at different places in the same room or in different rooms.

I am fully aware that some changes may be made in the various arrangements and

combinations of the devices and parts, as well as in the details of the construction of the same, without departing from the scope of my present invention as defined in the claims, which are appended to this specification. Hence, I do not limit my invention to the exact arrangements and combinations of devices and parts as set forth and described in the foregoing specification, nor do I confine myself to the exact details of the construction of any of the said parts as illustrated in the accompanying drawings.

I claim:—

1. In an extension-bed, two nested couch-sections, one a lower and fixed section, and the other an upper and movable section, each section including a metallic fabric, the metal fabric which is connected with said upper and movable section being movable transversely above the metallic fabric of said lower and fixed couch-section, and a guide-plate at each end of the said lower and fixed couch-section between which the upper and movable couch section and its metal fabric are slidably arranged.

2. In an extension-bed, two nested couch-sections, one a lower and fixed section, and the other an upper and movable section, said sections comprising end-pieces, the end-pieces of said upper and movable section being slidably arranged upon the end-pieces of said lower and fixed section, and a metallic fabric secured to the end-pieces of each couch-section, the metal fabric between the end-pieces of the upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, and a guide-plate extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

3. In an extension-bed, two nested couch-sections, one a lower and fixed section, and the other an upper and movable section, said sections comprising end-pieces, the end-pieces of said upper and movable section being slidably arranged upon the end-pieces of said lower and fixed section, and a metallic fabric secured to the end-pieces of each couch-section, the metal fabric between the end-pieces of the upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, the end-pieces of said upper and movable couch-section being provided with means for producing a level relation of the two metallic fabrics when the couch-sections are in their extended relation, and a guide-plate extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

4. In an extension-bed, two nested couch-



sections, one a lower and fixed section, and the other an upper and movable section, said sections comprising end-pieces, the end-pieces of said upper and movable section being provided with downwardly extending members slidably arranged upon the upper surfaces of the end-pieces of said lower and fixed section, and a metallic fabric secured to the end-pieces of each couch-section, the metal fabric between the end-pieces of the upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, and a guide-plate extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

5. In an extension-bed, two nested couch-sections, one a lower and fixed section, and the other an upper and movable section, said sections comprising end-pieces, the end-pieces of said upper and movable section being provided with downwardly extending members slidably arranged upon the upper surfaces of the end-pieces of said lower and fixed section, and a metallic fabric secured to the end-pieces of each couch-section, the metal fabric between the end-pieces of the upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, said downwardly extending members of the end-pieces of said upper and movable couch-section being formed at their rear ends with cut-away parts for producing a level relation of the two metallic fabrics when the couch-sections are in their extended relation, and a guide-plate extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

6. An extension-bed comprising a pair of nested couch-sections, one a lower and fixed section, and the other an upper and movable section, legs or supports extending from each section at each end thereof, the legs of the lower and fixed section being shorter than the legs of the upper and movable section, casters upon the legs of said lower and fixed section, each section including a metallic fabric, the metallic fabric which is connected with said upper and movable section being movable transversely above the metallic fabric of said lower and fixed couch-section, and a guide-plate at each end of the said lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

7. An extension-bed comprising a pair of nested couch-sections, one a lower and fixed section, and the other an upper and movable section, end-pieces at each end of said sections, the end-pieces of said upper and mov-

able section being slidably arranged upon the end-pieces of said lower and fixed section, legs or supports extending from each end-piece, the legs of the lower and fixed section being shorter than the legs of the upper and movable section, casters upon the legs of said lower and fixed section, and a metallic fabric secured to the end-pieces of each couch-section, the metallic fabric between the end-pieces of the upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, and a guide-plate extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

8. An extension-bed comprising a pair of nested couch-sections, one a lower and fixed section, and the other an upper and movable section, end-pieces at each end of said sections, the end-pieces of said upper and movable section being slidably arranged upon the end-pieces of said lower and fixed section, legs or supports extending from each end-piece, the legs of the lower and fixed section being shorter than the legs of the lower and movable section, casters upon the legs of said lower and fixed section, and a metallic fabric secured to the end-pieces of each couch-section, the metallic fabric between the end-pieces of the upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, the end-pieces of said upper and movable couch-section being provided with means for producing a level relation of the two metallic fabrics when the couch-sections are in their extended relation, and a guide-plate extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

9. An extension-bed comprising a pair of nested couch-sections, one a lower and fixed section, and the other an upper and movable section, end-pieces at each end of said sections, the end-pieces of said upper and movable section being provided with downwardly extending members slidably arranged upon the upper surfaces of the end-pieces of said lower and fixed section, legs or supports extending from each end-piece, the legs of the lower and fixed section being shorter than the legs of the upper and movable section, casters upon the legs of said lower and fixed section, and a metallic fabric secured to the end-pieces of each couch-section, the metallic fabric between the end-pieces of the upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, and a guide-plate



extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

5 10. An extension-bed comprising a pair of  
nested couch-sections, one a lower and fixed  
section, and the other an upper and movable  
section, end-pieces at each end of said sec-  
10 tions, the end-pieces of said upper and mov-  
able section being provided with down-  
wardly extending members slidably ar-  
ranged upon the upper surfaces of the end-  
pieces of said lower and fixed section, legs  
15 or supports extending from each end-piece,  
the legs of the lower and fixed section being  
shorter than the legs of the upper and mov-  
able section, casters upon the legs of said  
lower and fixed section, and a metallic fabric  
20 secured to the end-pieces of each couch-sec-  
tion, the metallic fabric between the end-  
pieces of the upper and movable section be-  
ing movable transversely above the metallic  
fabric between the end-pieces of the lower  
25 and fixed couch-section, said downwardly  
extending members of the end-pieces of said  
upper and movable couch-section being  
formed at their rear ends with cut-away  
parts for producing a level relation of the  
30 two metallic fabrics when the couch-sections  
are in their extended relation, and a guide-  
plate extending upwardly from each end-  
piece of the lower and fixed couch-section  
between which the upper and movable couch-  
35 section and its metal fabric are slidably ar-  
ranged.

11. An extension-bed comprising a pair of  
nested couch-sections, one a lower and fixed  
section, and the other an upper and movable  
40 section, legs or supports extending from each  
section at each end thereof, the legs of the  
lower and fixed section being shorter than  
the legs of the upper and movable section,  
casters upon the legs of said lower and fixed  
section, longitudinally extending braces be-  
45 tween the legs at the ends of the respective  
couch-sections, each section including a me-  
tallic fabric, the metallic fabric which is con-  
nected with said upper and movable section  
being movable transversely above the me-  
50 tallic fabric of said lower and fixed couch-  
section, and a guide-plate at each end of the  
said lower and fixed couch-section between  
which the upper and movable couch section  
and its metal fabric are slidably arranged.

55 12. An extension-couch comprising a pair  
of nested couch-sections, one a lower and  
fixed section, and the other an upper and  
movable section, end-pieces at each end of  
said sections, the end-pieces of said upper  
60 and movable section being slidably arranged  
upon the end-pieces of said lower and fixed  
section, legs or supports extending from each  
end-piece, the legs of the lower and fixed sec-  
tion being shorter than the legs of the upper  
65 and movable section, casters upon the legs

of said lower and fixed section, longitudi-  
nally extending braces between the legs at  
the ends of the respective couch-sections, and  
a metallic fabric secured to the end-pieces of  
each couch-section, the metallic fabric be- 70  
tween the end-pieces of the upper and mov-  
able section being movable transversely  
above the metallic fabric between the end-  
pieces of the lower and fixed couch-section,  
and a guide-plate extending upwardly from 75  
each end-piece of the lower and fixed couch-  
section between which the upper and mov-  
able couch-section and its metal fabric are  
slidably arranged.

13. An extension-couch comprising a pair 80  
of nested couch-sections, one a lower and  
fixed section, and the other an upper and  
movable section, end-pieces at each end of  
said sections, the end-pieces of said upper  
and movable section being slidably arranged 85  
upon the end-pieces of said lower and fixed  
section, legs or supports extending from  
each end-piece, the legs of the lower and fixed  
section being shorter than the legs of the up-  
per and movable section, casters upon the 90  
legs of said lower and fixed section, longi-  
tudinally extending braces between the legs  
at the ends of the respective couch-sections,  
and a metallic fabric secured to the end-  
pieces of each couch-section, the metallic 95  
fabric between the end-pieces of the upper  
and movable section being movable trans-  
versely above the metallic fabric between the  
end-pieces of the lower and fixed couch-sec-  
tion, the end-pieces of said upper and mov- 100  
able couch-section being provided with means  
for producing a level relation of the two  
metallic fabrics when the couch-sections are  
in their extended relation, and a guide-plate  
extending upwardly from each end-piece of 105  
the lower and fixed couch-section between  
which the upper and movable couch-section  
and its metal fabric are slidably arranged.

14. An extension-bed comprising a pair of  
nested couch-sections, one a lower and fixed 110  
section, and the other an upper and movable  
section, end-pieces at each end of said sec-  
tions, the end-pieces of said upper and  
movable section being provided with down-  
wardly extending members slidably arranged 115  
upon the upper surfaces of the end-pieces of  
said lower and fixed section, legs or supports  
extending from each end-piece, the legs of  
the lower and fixed section being shorter  
than the legs of the upper and movable sec- 120  
tion, casters upon the legs of said lower and  
fixed section, longitudinally extending braces  
between the legs at the ends of the respective  
couch-sections, and a metallic fabric secured  
to the end-pieces of each couch-section, the 125  
metallic fabric between the end-pieces of the  
upper and movable section being movable  
transversely above the metallic fabric be-  
tween the end-pieces of the lower and fixed  
couch-section, and a guide-plate extending 130



upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged.

- 5 15. An extension-bed comprising a pair of nested couch-sections, one a lower and fixed section, and the other an upper and movable section, end-pieces at each end of said sections, the end-pieces of said upper and  
10 movable section being provided with downwardly extending members slidably arranged upon the upper surfaces of the end-pieces of said lower and fixed section, legs or supports extending from each end-piece, the legs of  
15 the lower and fixed section being shorter than the legs of the upper and movable section, casters upon the legs of said lower and fixed section, longitudinally extending braces between the legs at the ends of the respective  
20 couch-sections, and a metallic fabric secured to the end-pieces of each couch-section, the metallic fabric between the end-pieces of the

upper and movable section being movable transversely above the metallic fabric between the end-pieces of the lower and fixed couch-section, said downwardly extending members of the end-pieces of said upper and movable couch-section being formed at their rear ends with cut-away parts for producing a level relation of the two metallic fabrics when the couch-sections are in their extended relation, and a guide-plate extending upwardly from each end-piece of the lower and fixed couch-section between which the upper and movable couch-section and its metal fabric are slidably arranged. 25 30 35

In testimony that I claim the invention set forth above I have hereunto set my hand this 7th day of March, 1908.

JACOB SCHWARTZMAN.

Witnesses:

FRED'K C. FRAENTZEL,  
ANNA H. ALTER.