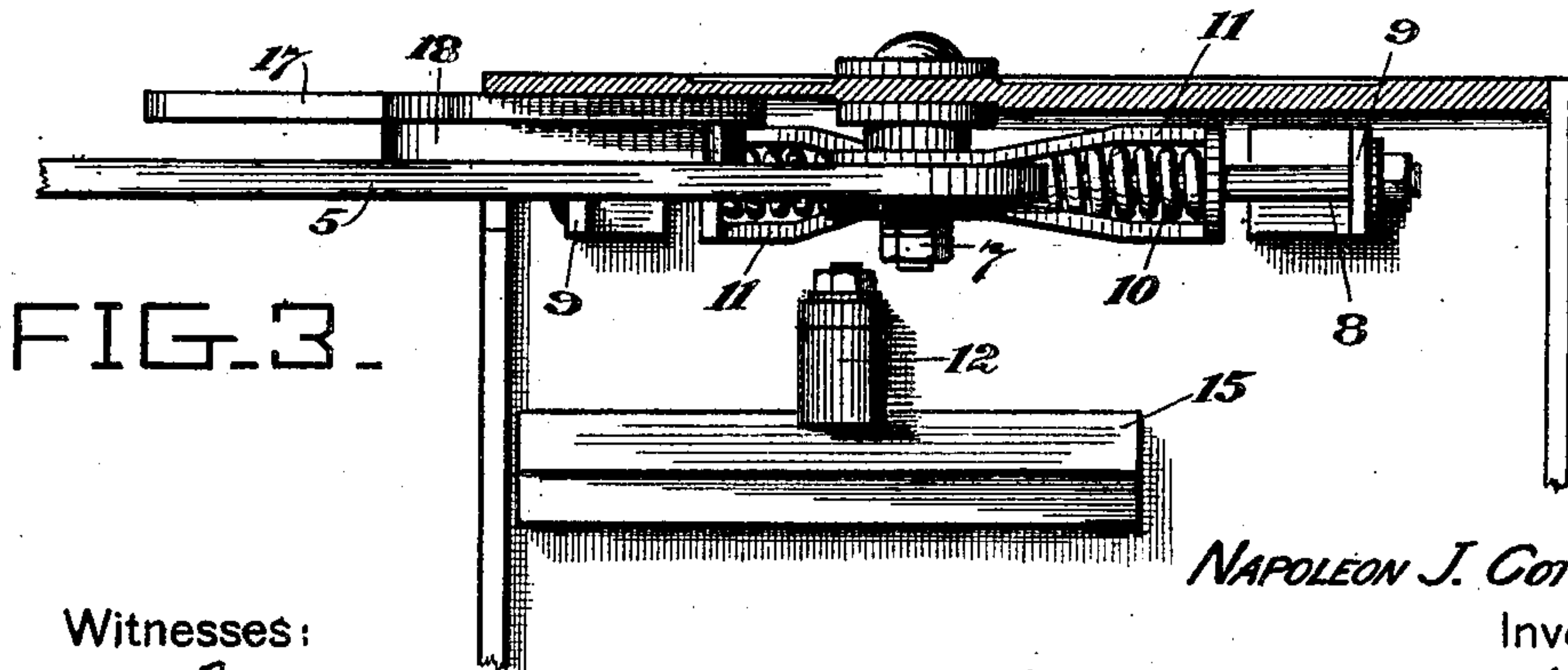
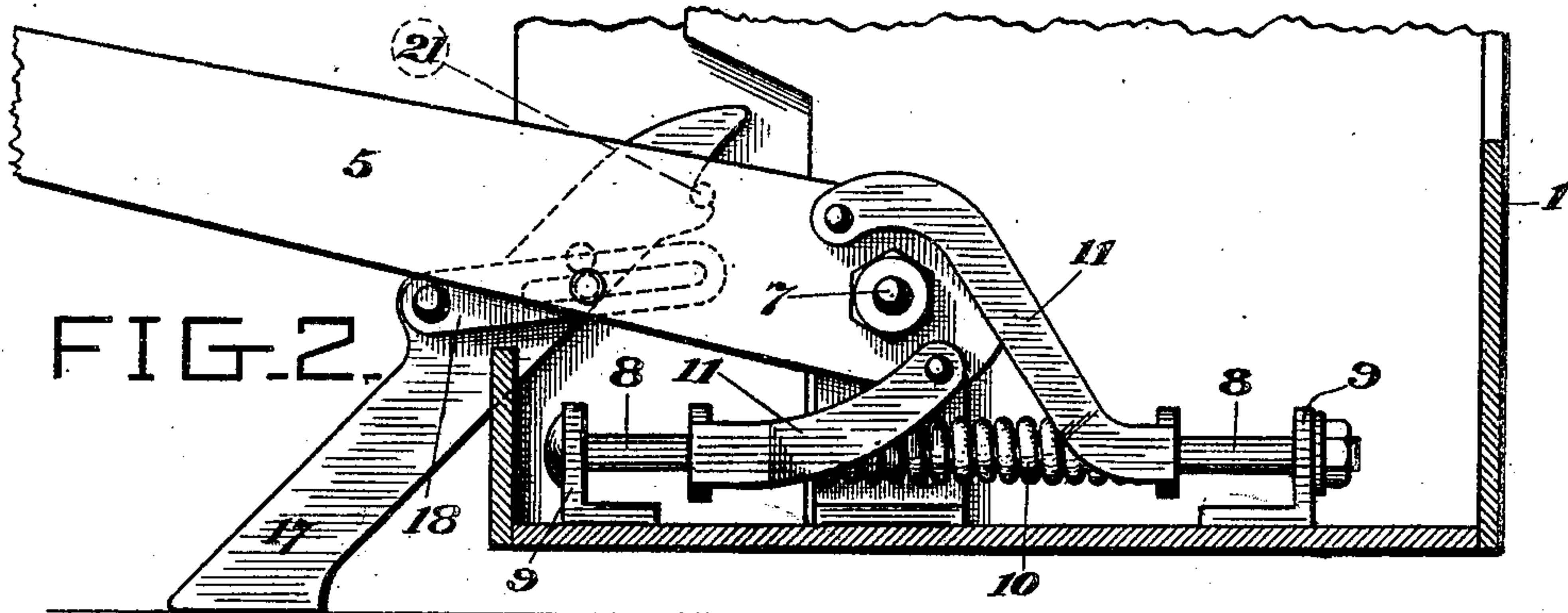
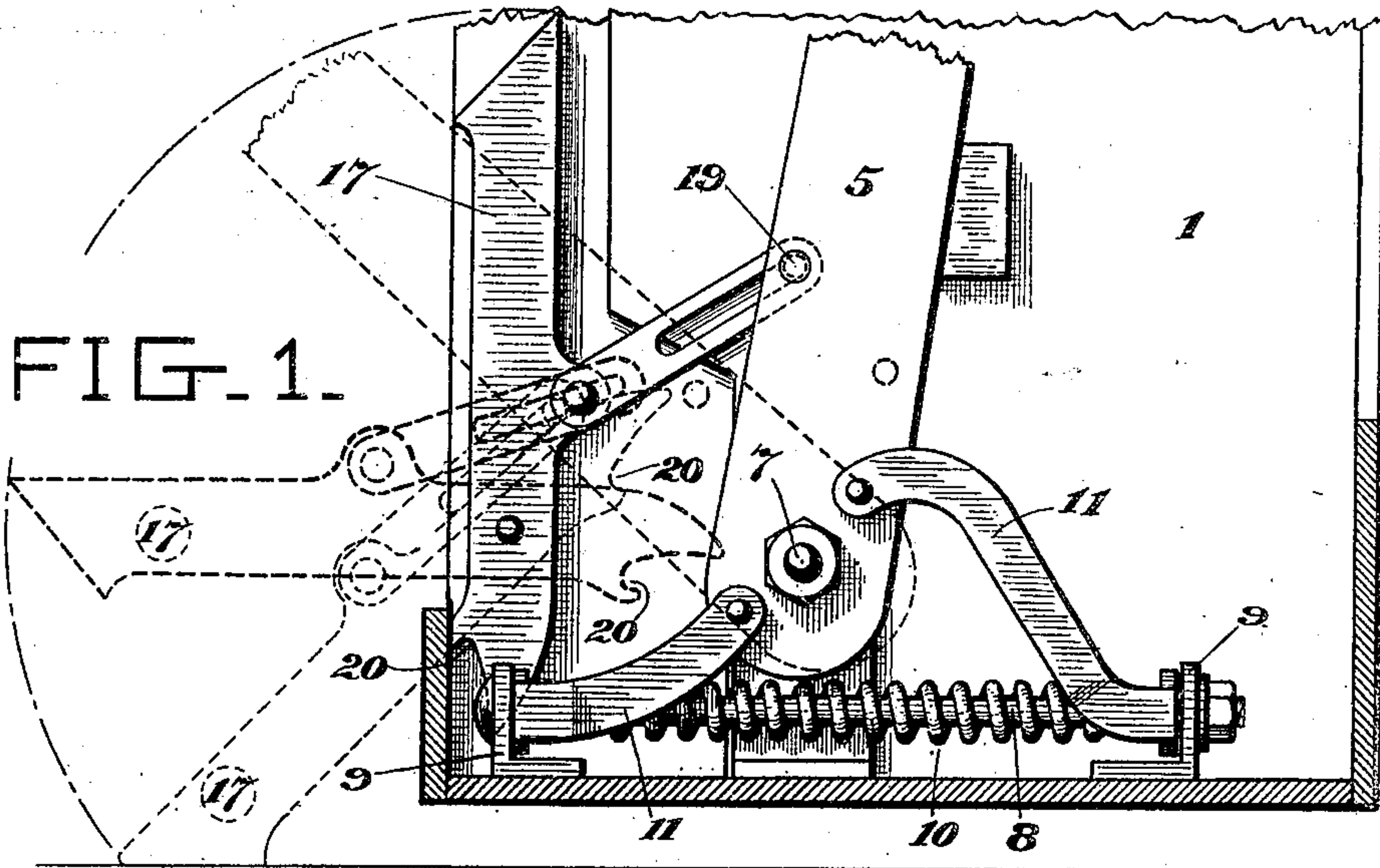


921,952.

N. J. COTE.
COMBINATION FURNITURE.
APPLICATION FILED JULY 23, 1908.

Patented May 18, 1909.

2 SHEETS—SHEET 1.



Witnesses:

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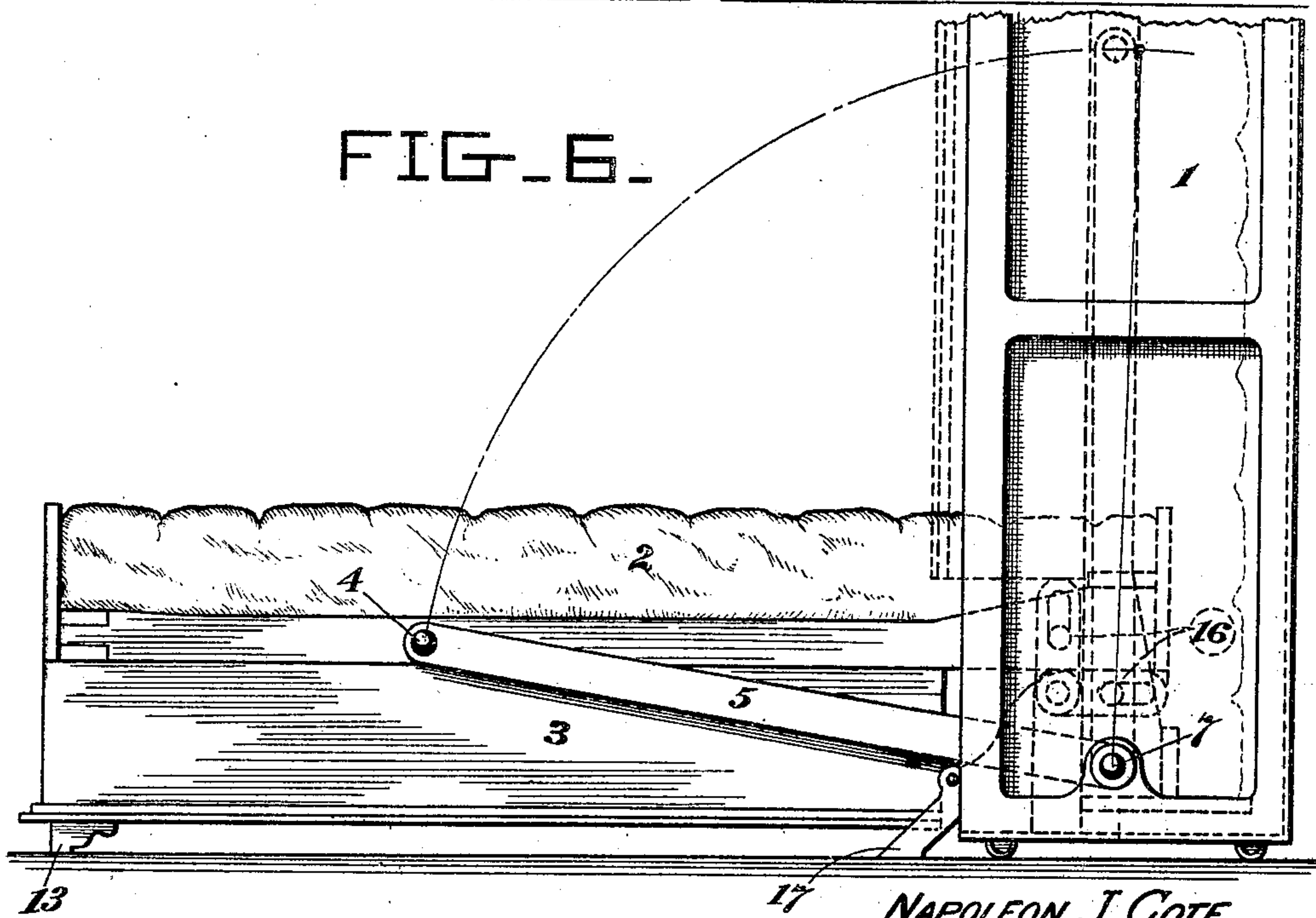
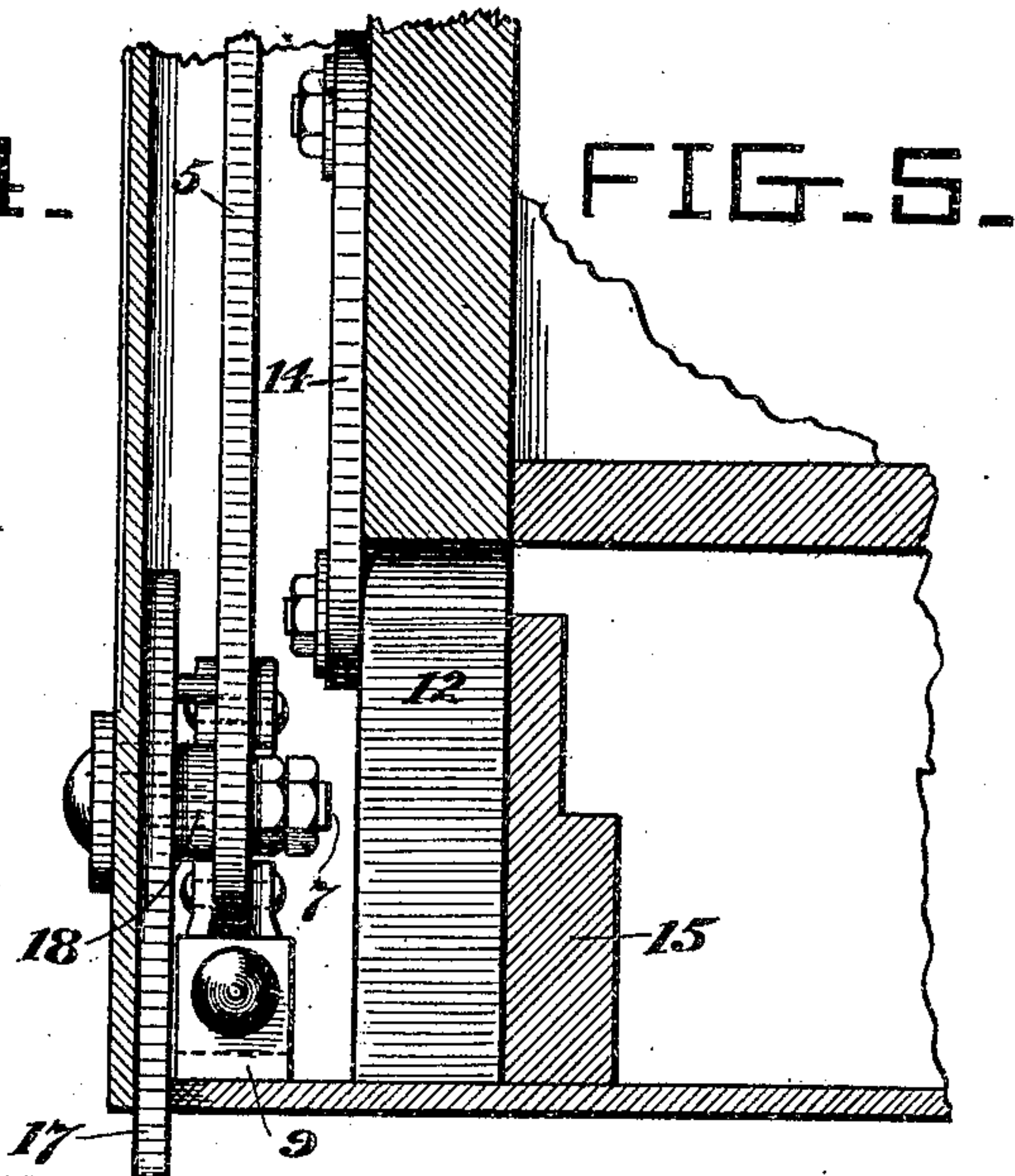
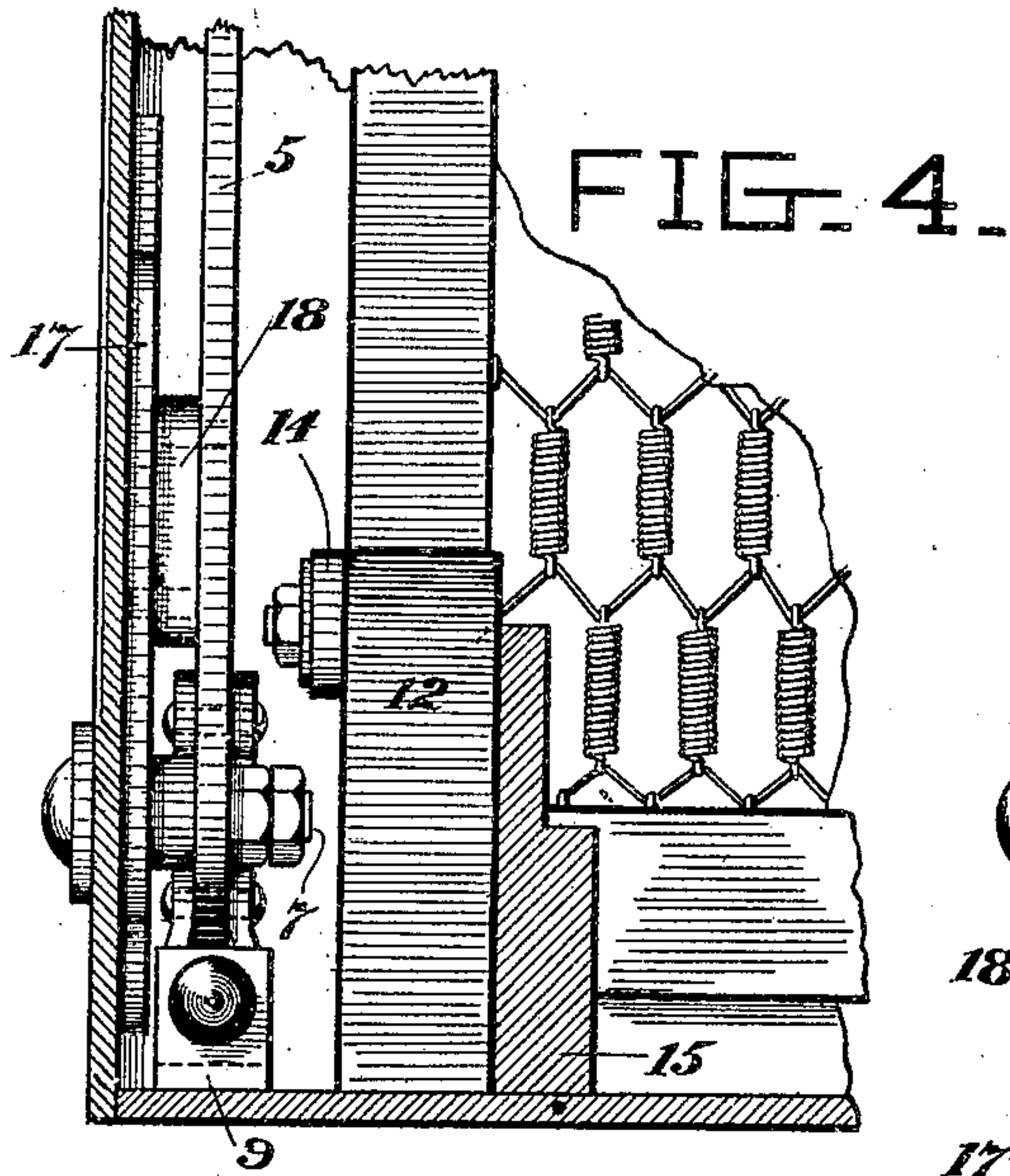
Attorneys

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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

NAPOLEON J. COTE, OF MONTREAL, QUEBEC, CANADA.

COMBINATION FURNITURE.

No. 921,952.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed July 23, 1908. Serial No. 444,914.

To all whom it may concern:

Be it known that I, NAPOLEON JOSEPH COTE, a subject of the King of Great Britain, residing in the city and district of Montreal, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Combination Furniture; and I do hereby declare that the following is 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.

The present invention relates to improvements in furniture, and more particularly folding furniture, such as folding beds and the like.

It is especially designed as an improvement on my United States Patent No. 891,040.

Broadly speaking, it comprises a casing adapted to receive a pivotally mounted bed frame, supporting legs pivotally mounted on the casing, supporting arms pivoted to the casing, connections between the arms and legs, and means for locking the legs in operative position.

In order to more clearly disclose the construction, operation and use of the invention, reference should be had to the accompanying drawings forming part of the present application.

Throughout the several figures of the drawings, like reference characters designate the same parts.

In the drawings: Figure 1 is a fragmentary section through the lower part of the bed casing, showing a side elevation of the invention in inoperative position; Fig. 2 is a similar view, with the invention in operative position; Fig. 3 is a plan view of Fig. 2; Fig. 4 is a front view of Fig. 1; Fig. 5 is a front view of Fig. 2; and, Fig. 6 is a side elevation of a folding bed in lowered position, showing the application of the invention.

The invention as a whole comprises a suitable casing 1, adapted to completely and snugly receive a combination piece comprising a bed 2 and a wardrobe 3, which in the preferred form are securely fastened together to form substantially one piece, the wardrobe being accessible and adapted for use when the piece as a whole is raised and fitted within the casing, and the bed being accessible and ready for use when the piece is in its lowered position, all as will readily appear from Figs. 1, 2 and 6 respectively. This combination piece is pivotally mounted at 4

on arms 5, the opposite ends of which are pivotally connected to the inner faces of the casing 1 as at 7.

In order to prevent the combination piece falling with the full force of its weight, a retarding device is used, the operation and construction of which will be later disclosed. This retarding device comprises a rod 8 carried by brackets 9, or the like, which are suitably secured to the inside of the casing 1. In the preferred form, this retarder is mounted in brackets on the bottom of the casing, though of course it may be mounted on the side or in other positions, provided it is so positioned that its function will be the same. On the rod 8 is loosely mounted a spring 10 adapted to be compressed between yokes 11, mounted to travel freely on said rod. These yokes are pivoted to the arms 5 at points diametrically opposed, as shown in Fig. 3. As will be clear from Fig. 3, as the combination piece is lowered to the position of Fig. 2, the yokes 11 will approach one another and the spring 10 will be compressed. Of course, the reaction of the spring as it is gradually compressed, will increase, and its resulting retardation of the arms 5 and the combination piece mounted thereon, will likewise gradually increase. Thus the maximum effect of the spring will be brought to bear at the lowest position of the arm 5, as indicated by dotted lines in Fig. 3, and the minimum efficiency when the arm 5 is in its highest position, as indicated in said Fig. 2 in full lines.

In order to allow free turning of the combination piece as a whole about the pivot point 7 preliminary to lowering the same, it is essential that a space be provided between the back of the casing 1 and the bed 2 at the moment it is desired to lower the piece. It is also essential to make the casing 1 as small as possible, and in order to accomplish both results, the pivotal connection 4 between the upper end of the arm 5 and the combination piece has been provided. Due to this construction, the device may first be pulled outward a sufficient distance to permit it to be swung about the pivot 7 without binding against the back of the casing 1. The distance of this outward movement is limited by the post 12 with which the lower end of the bed contacts, and thus on continued movement of the same, the combined bed and wardrobe is tilted into a horizontal position. This post 12 forms a support for one end of

the piece, while the opposite end is supported on the ornamental molding blocks 13 secured to the upper front edge of the wardrobe. The space which is necessarily left
 5 between the lower end of the wardrobe and the bottom of the casing in order to permit free movement of the arms 5 and the turning of the piece as a whole, may be filled when the piece has been moved to upright position
 10 by a drawer adapted to slide on guides 15. These guides 15, it will be noticed, also form additional supports for the posts 12, thus securing the posts more rigidly in position.

In order to reduce the friction between the
 15 top of the supporting posts 12 and the lower surface of the bed frame, slotted links 14 have been provided. These links are pivoted at one end to the posts 12, and are provided, in their upper ends, with slots adapted
 20 to loosely receive sliding pivot pins 16 secured to the sides of the bed frame at points adjacent its rear edge. The slots in the links are of just sufficient length to allow the rearward movement of the bed into the back of
 25 the casing after it has been raised, while the distances between the bottoms of the slots and the pivotal connections of the links 14 with the posts 12, are just sufficient to insure free swing of the bed frame over the tops of
 30 the posts 12 without a rubbing contact.

In order to give additional support to the bed, when in lowered position, legs 17 are provided. These legs are pivoted to the inside of the casing 1, and are connected by
 35 links 18 to the arms 5. The links 18 have elongated slots in their upper ends adapted to loosely receive sliding pivot pins 19 on the arms 5. The upper ends of the legs 17 are provided with notches 20, adapted, when the
 40 legs are in operative position, to receive locking studs 21, fixed to the arms 5. Consequently, when the bed frame is lowered, the links 18 will act to push the legs 17 to operative position, and the studs 21, as the bed
 45 drops, will fit into the notches 20 and securely lock the legs against further move-

ment. When the bed frame is raised, the studs will first be withdrawn from their notches, and the legs will then be gradually raised and withdrawn into the casing. 50

It is clear that changes may be made in the construction, arrangement and disposition of the several parts, and that substitutions for these parts may be resorted to, without in any way departing from the field and
 55 scope of the invention, and it is meant to include all such within this application, wherein only a preferred form has been shown and described.

Having thus fully described my invention, 60 what I claim as new, and desire to secure by Letters Patent, is:—

1. Combination furniture of the character described, comprising a casing, arms movably mounted thereon and adapted to support a bed, supporting legs mounted in said casing, and sliding connections between said legs and said arms. 65

2. Combination furniture of the character described, comprising a casing, arms movably mounted thereon and adapted to support a bed, supporting legs mounted in said casing, and connections between said legs and said arms, said connections comprising a slotted link pivotally connected to said leg
 70 and a pin secured to said arm and playing in the slot of said link. 75

3. Combination furniture of the character described, comprising a casing, arms movably mounted thereon and adapted to support a bed, supporting legs mounted in said casing, connections between said legs and said arms, and means carried by the arm and adapted to engage and lock said legs in operative position. 80 85

In witness whereof I have hereunto set my hand in the presence of two witnesses.

NAPOLEON J. COTE.

Witnesses:

L. A. GAUVIN,
 W. S. BABCOCK.