

No. 851,910.

PATENTED APR. 30, 1907.

J. M. WILFLEY.

FOLDING BED.

APPLICATION FILED FEB. 7, 1907.

2 SHEETS—SHEET 1.

Fig. 6.

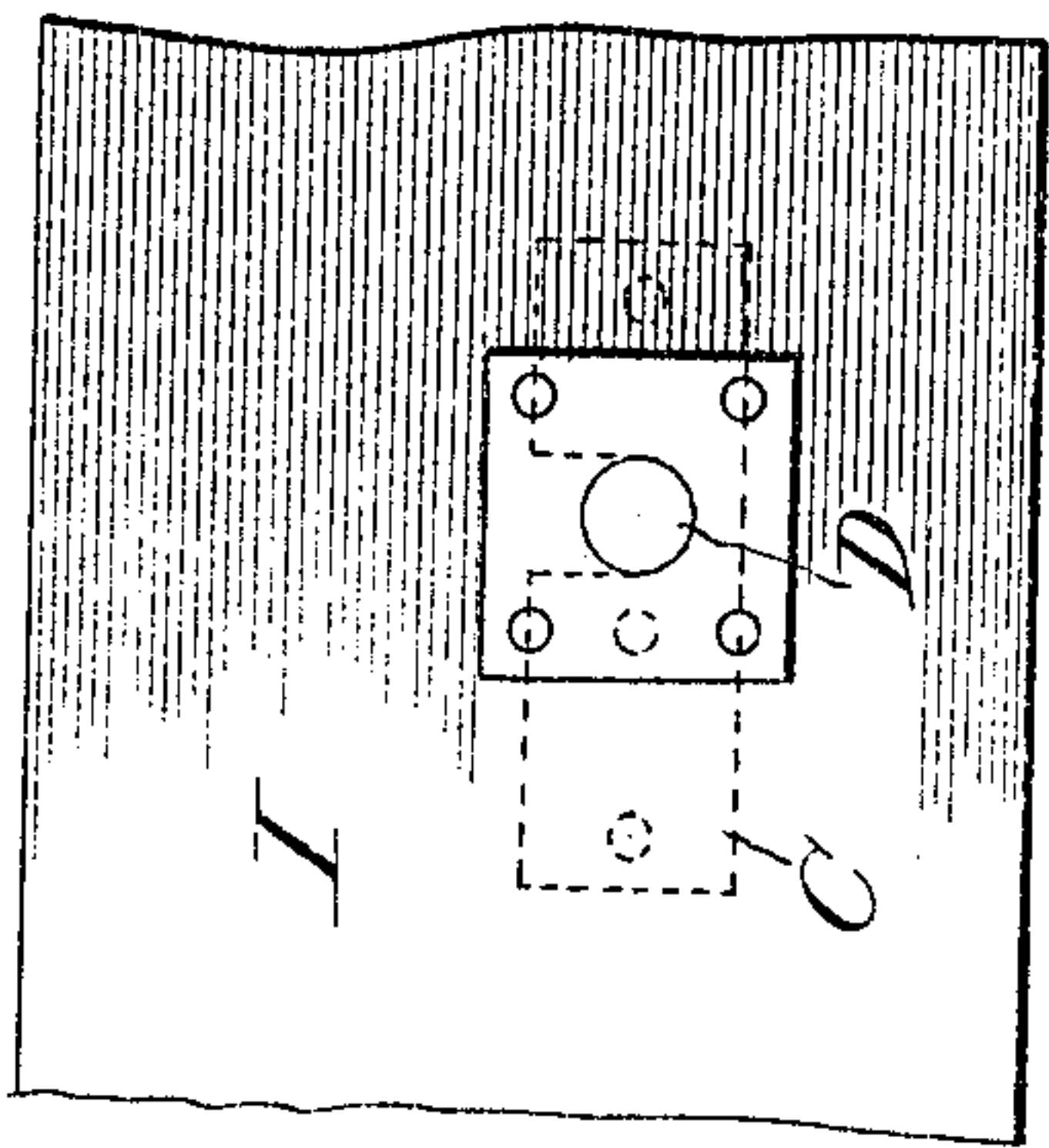


Fig. 2.

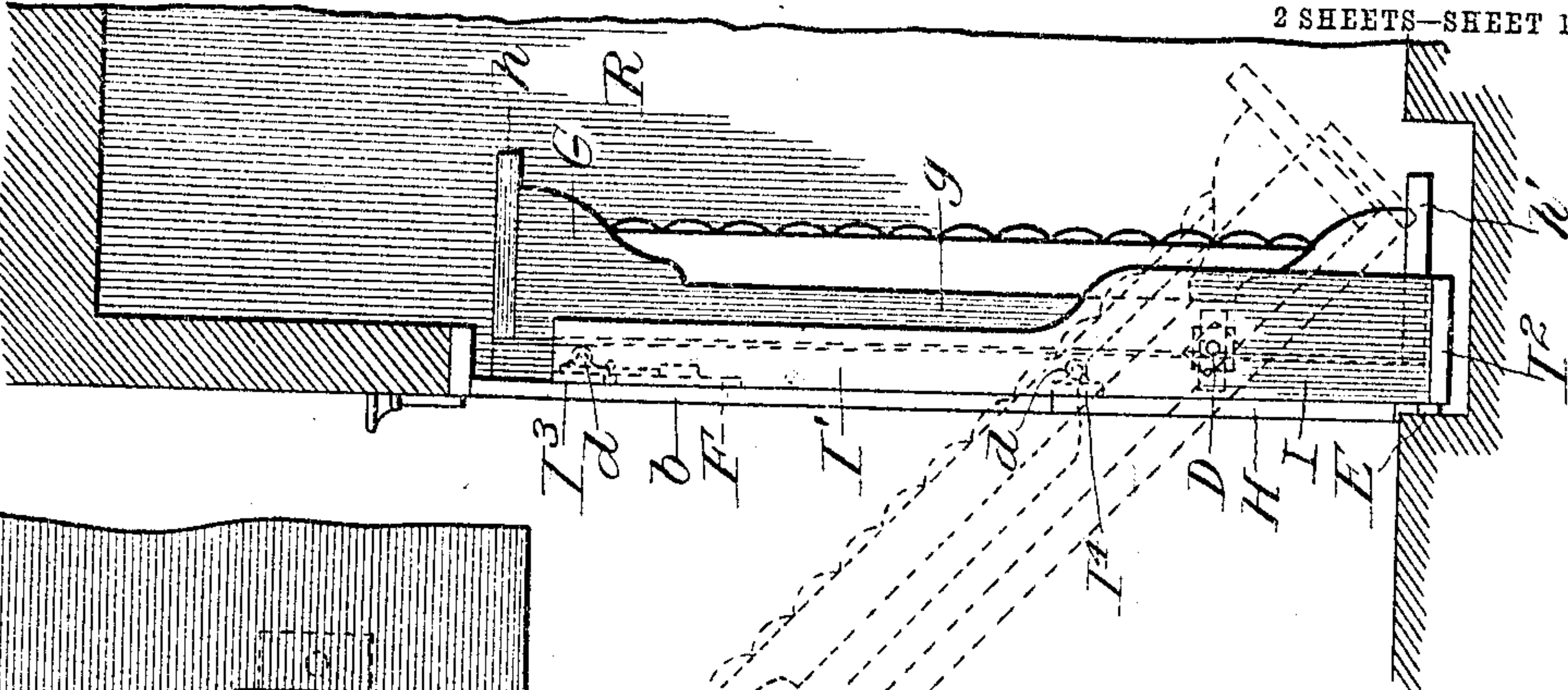


Fig. 1.

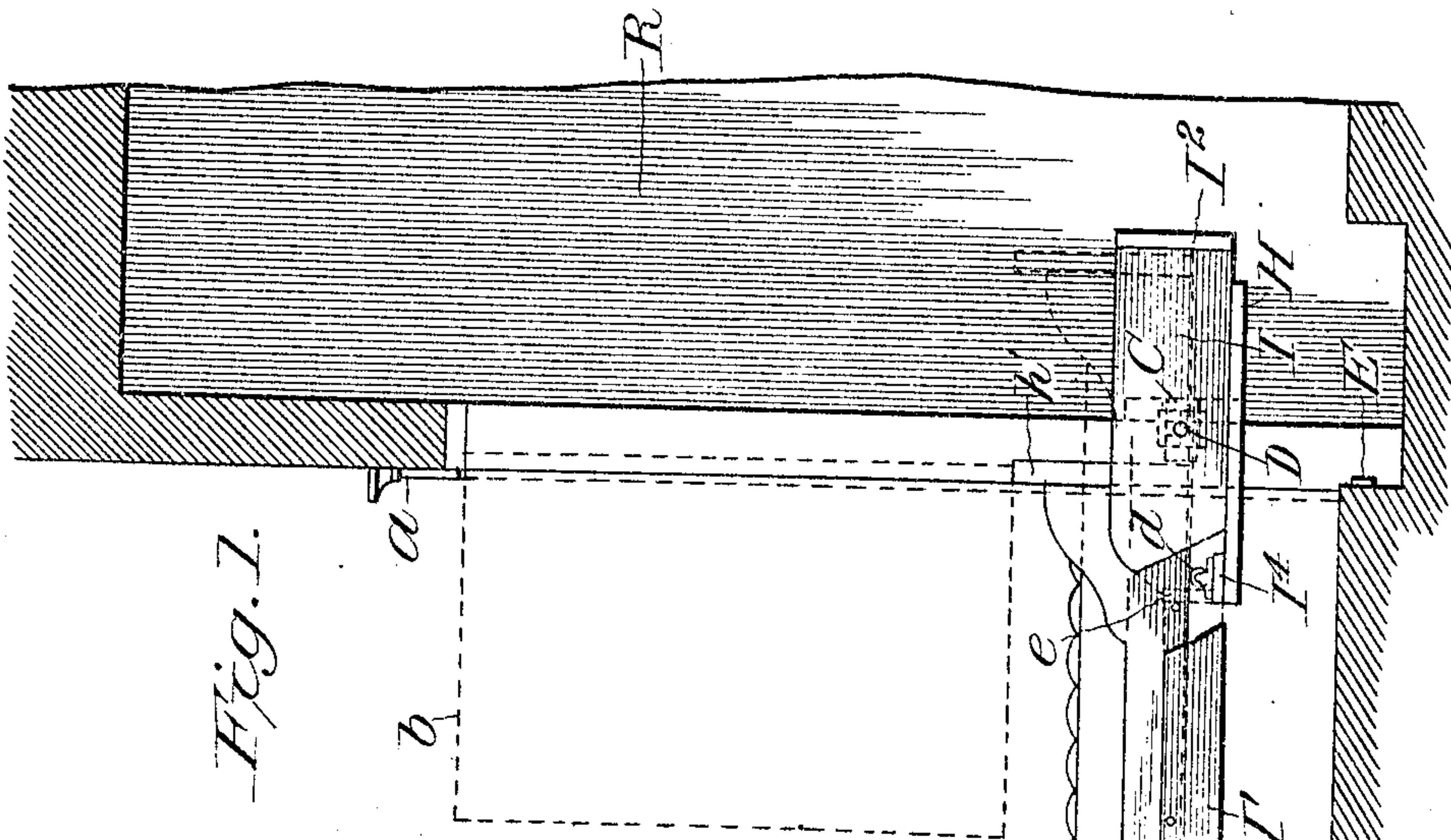
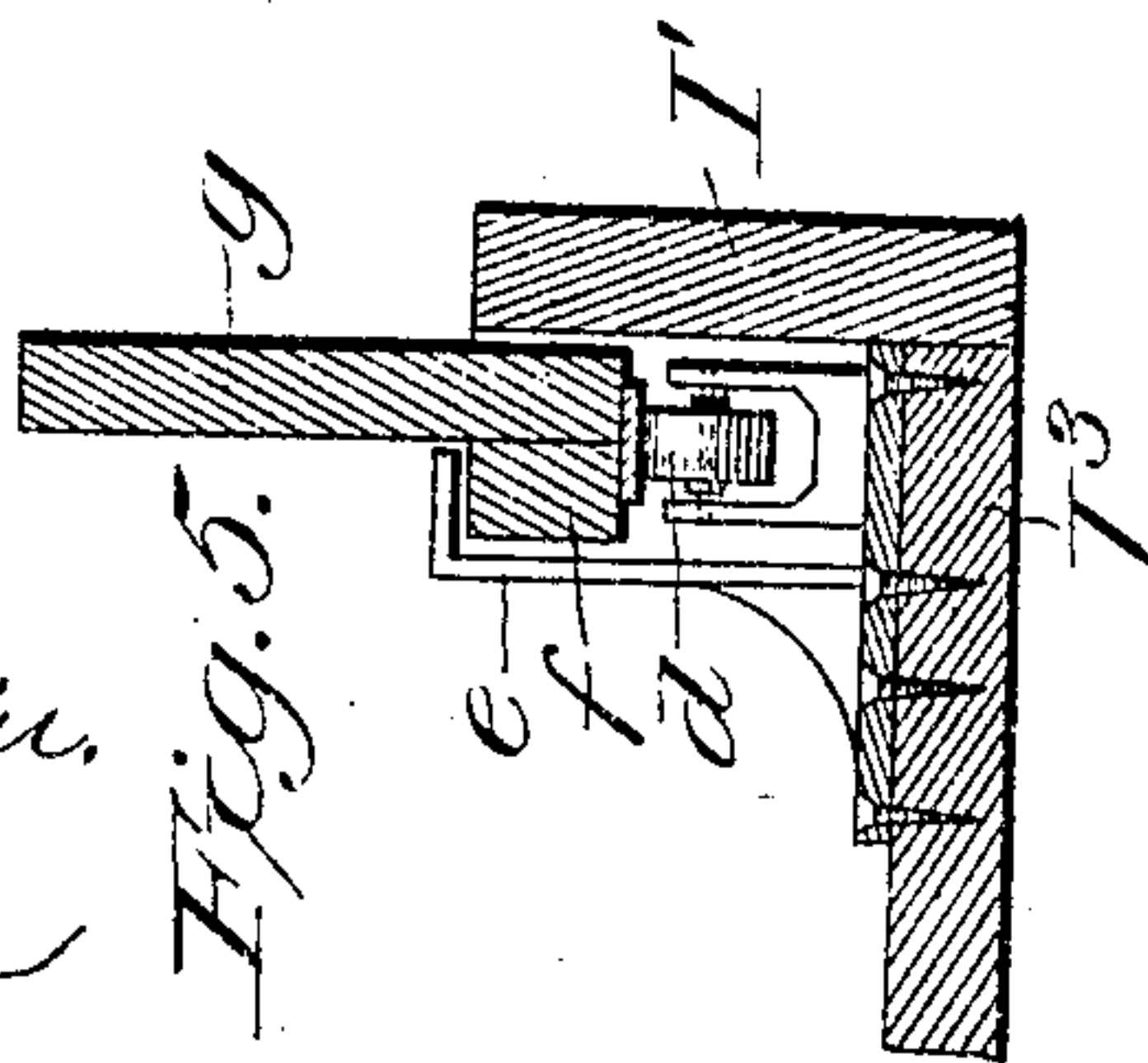


Fig. 5.



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2 SHEETS—SHEET 2.

Fig. 4.

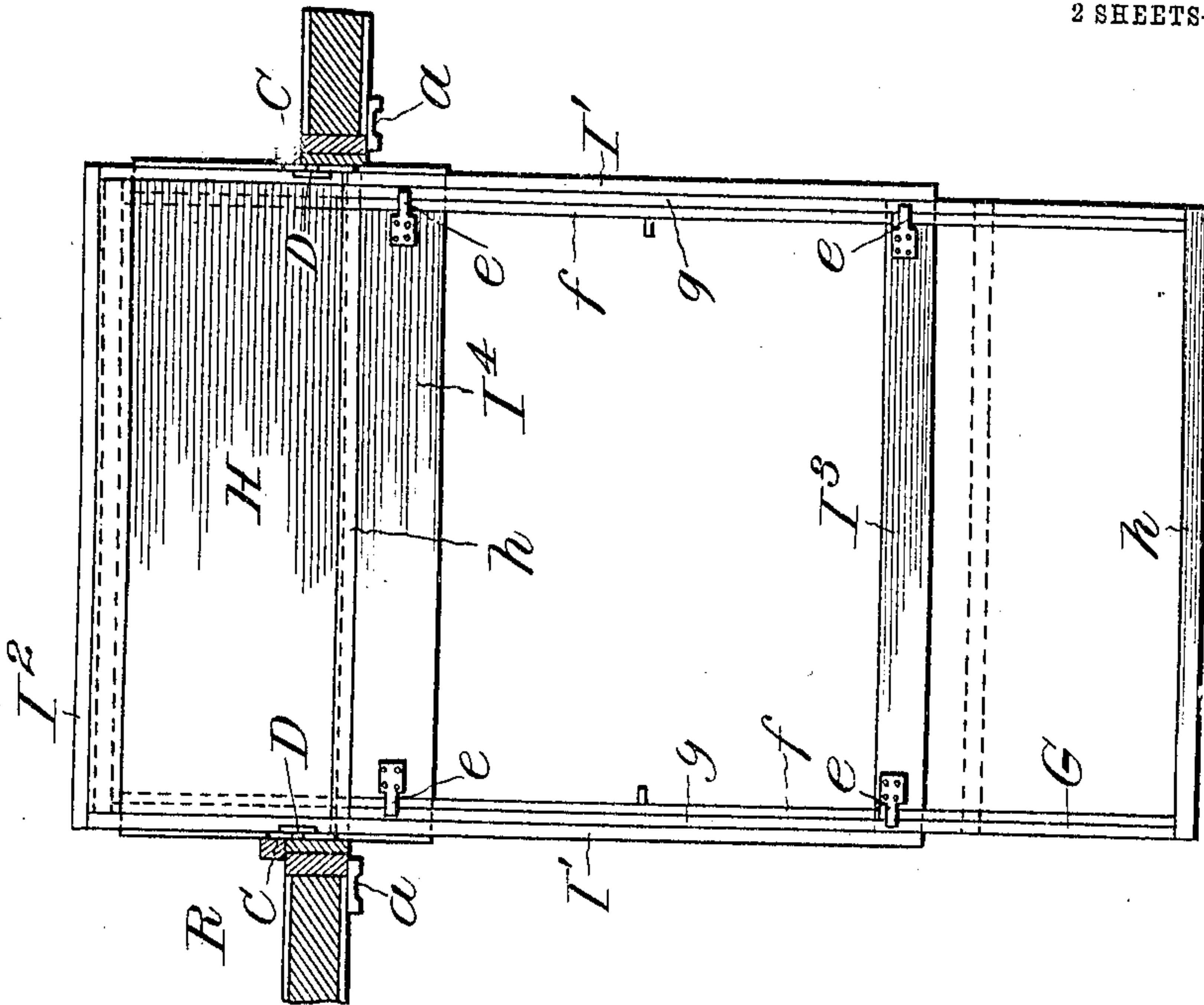
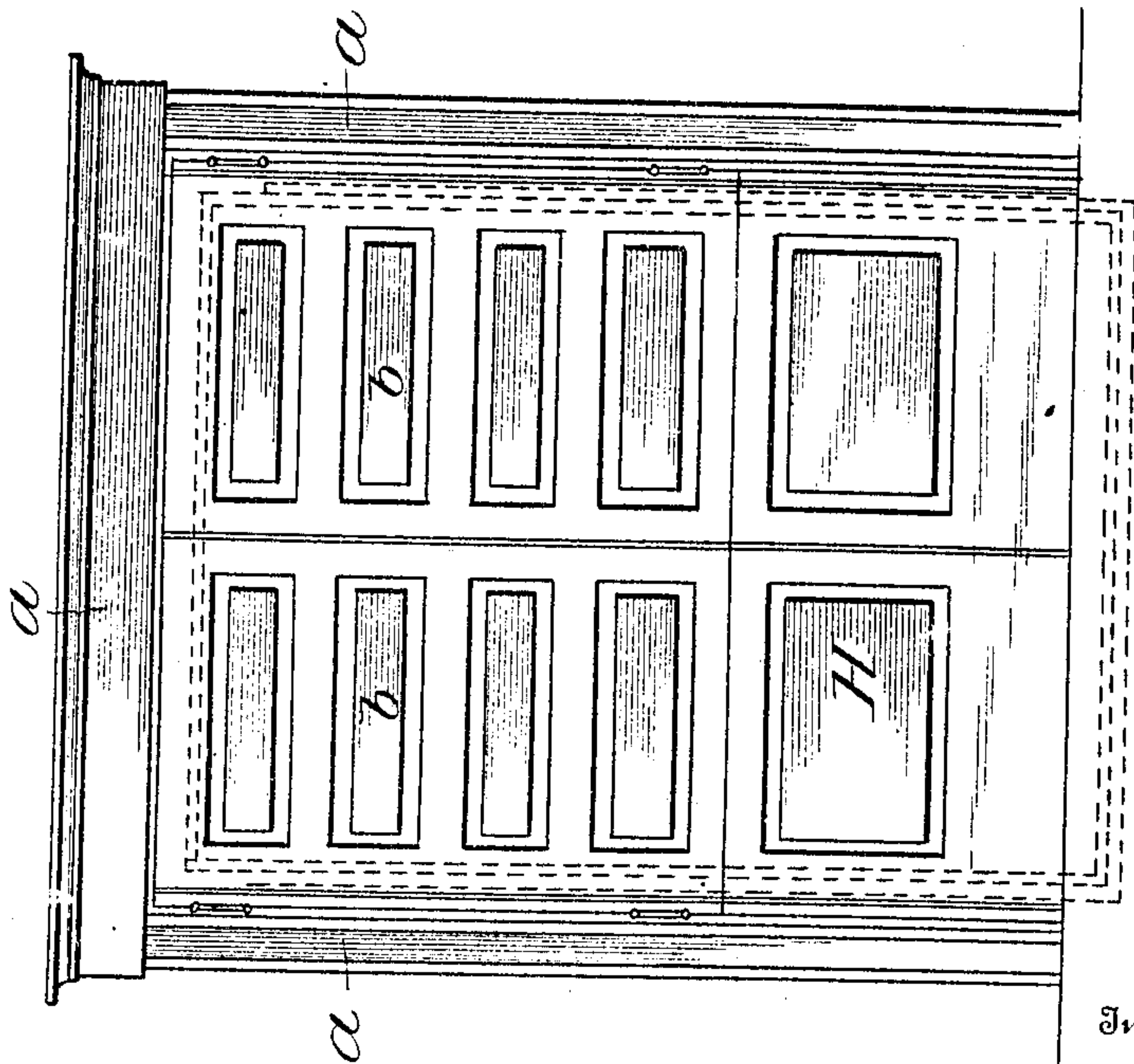


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN M. WILFLEY, OF SALT LAKE CITY, UTAH.

FOLDING BED.

No. 851,910.

Specification of Letters Patent.

Patented April 30, 1907.

Application filed February 7, 1907. Serial No. 356,244.

To all whom it may concern:

Be it known that I, JOHN M. WILFLEY, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented new and useful Improvements in Folding Beds, of which the following is a specification.

This invention relates to certain new and useful improvements in folding beds of that type wherein the bed is designed to fold into and out of an appropriate space or recess, as a closet, constructed in an apartment or in the walls or partitions thereof;

The essential object of said invention is to furnish an improved bed of the type described which is particularly adapted for apartment houses wherein economy of space is important.

My invention consists of the parts and the constructions and combinations of parts which I will hereinafter describe and claim.

In the accompanying drawings forming part of this specification and in which similar letters of reference indicate like parts in the several views,—Figure 1, represents a side elevation of my improved bed showing the bed in its lowered and extended position ready for use, a portion of the apartment being in section to show the space or recess into which the bed is foldable. Fig. 2, is a similar view, but showing the bed folded into its space or recess, the dotted position showing the bed partially open. Fig. 3, represents a front elevation showing the appearance of the apartment when the bed is folded and the concealing doors are closed thereover. Fig. 4, is a plan view of the bed in its lowered position. Fig. 5, is a sectional detail showing the roller mechanism upon which the bed frame is longitudinally slidable. Fig. 6, is a detail of one of the supporting journals and its bearing.

In carrying out my invention I provide a space or recess of some character into which my bed may be folded and hidden from view during the day time and whenever the bed is not required for use, and out of which recess the bed may be moved and lowered into its proper position.

While the specific character of the recess is more or less unimportant as far as the operations of my bed are concerned, I prefer, be-

cause of the advantages of my bed for the modern apartment houses, to have the bed fold into and out of a space or recess R permanently built into the apartment or into or between the partitions thereof, which space or recess may well represent the usual closet with which apartments are supplied. Such a closet or space will have an entrance with a suitable frame or casing *a*, and doors *b* which may be paneled or of any suitable or ornamental character, swinging or otherwise, are designed to close said entrance and shut out all views of the bed and furnish an attractive furnishing for the apartment, especially if the doors are of attractive design and if they and their casing are associated with a mantel, or made in the form of a dresser or other well known article of furniture. In the drawings, the doors are of the paneled type and are hinged to the door frame or casing and are adapted to swing horizontally, to allow the bed to be lowered out of the space behind said doors, and to close in front of the bed and conceal the same from view, when the bed is unused and in its folded position.

In connection with such a space as described or its equivalent my improved bed is adapted to be used, and to this end I secure to the door frame or casing, upon opposite sides of the opening, suitable plates *C* having open bearings to receive trunnions *D*, fixed to the sides of a frame *I* in which the bed-frame proper is slidably mounted, and supported. This frame *I* has a length which is preferably slightly less than the length of the bed frame but any length sufficient to enable said frame to properly carry and support the bed frame in its several positions will answer for the purpose.

The frame *I* consists of the parallel side rails *I'* which are connected together at the inner or back ends by a transverse cast-iron or other weighted bar *I''* which forms a counter-balance for the frame and its superimposed bed-frame, said counterbalance serving, also, as an end stop against which the head end of the bed-frame is supported when the bed is folded into the aforesaid recess.

The front or outer ends of the side rails of the frame *I* are connected by a cross rail or bar *I'''*, a hinged or other folding leg *F* being connected to said front end of the frame and

adapted to support the same when the bed is in the lowered position shown in Fig. 1. If desired, a second cross rail I^4 at an intermediate part of the frame I, may be used for additional strength and to better resist any tendency of the rails I' to spread. The rear or inner end of the frame I extends well into the recess or space behind the trunnions D and the bottom of said recess is depressed below the level of the floor of the apartment to receive the rear extension when the bed is folded as in Fig. 2, the vertical wall of this depressed portion being provided with a block or stop E against which the iron cross-bar or counter-balance I^2 will cushion in closing the bed.

Within the guide formed by the side rails of the outer frame I, the bed frame G is mounted, said bed frame comprising side rails g, g , a foot board h , and a head board h' , and having in practice, the usual means for supporting the mattress. This bed-frame is designed to have a free sliding movement upon rollers d appropriately secured upon the frame I, in such position that the under sides of the side rails of the bed frame may freely travel thereover whenever the said bed frame is moved in the direction of its length.

To the cross-bars of the outer frame I are also secured suitable brackets e which extend vertically and have their upper ends turned over suitable rails f secured along the inner sides of the rails of the bed-frame whereby the two frames are held in proper relation, said brackets also forming stops to limit the movement of the bed frame in and out of its supporting frame I. The outer frame I has also secured to it the board H which may be paneled or of such design that it forms an appropriate front for the base portion over the top edge of which the aforesaid doors close when the bed is folded into its recess or space.

When the bed is not in use and is folded into its recess, it assumes the position shown by full lines in Fig. 2 with the head-board portion of the bed-frame supported directly on the iron-cross bar of the supporting frame. In said figure, the doors d are closed and the board H forms a finished base below said doors.

To lower the bed for use, the doors are swung horizontally about their hinges, after which the bed may be lowered with little effort owing to the counter-balance at the head end. In lowering, the trunnions turn freely in their bearings and the legs F swing down by gravity into their proper position to support the frame as shown in Fig. 1. When the bed is first lowered as described, the bed-frame will occupy the position shown by dotted lines in Fig. 1 from which position it may be moved into the full-line position of Fig. 2 by sliding it longitudinally over its

roller support on the first named frame, the rails of the frame I forming guides for the bed frame during this movement.

In closing the bed, the bed-frame is first pushed in from the full-line position of Fig. 1 to the dotted position of said figure, after which the whole structure is readily turned about the axis formed by the trunnions and caused to enter the recess R. In this closing movement the iron cross-bar of the outer frame I will strike the rubber block or cushion E and prevent undue jar and noise. The doors may now be closed in front of the bed thereby closing the entrance to the recess and shutting the bed from view.

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

1. The combination with an inclosure and a door-controlled opening thereto, of a folding-bed comprising a frame pivotally-mounted within the walls of said opening, said frame having a counter-weight at the rear end and a support at the front end, a bed-frame mounted within the pivoted-frame and adapted to have a longitudinally slidable movement relative thereto, and co-acting stop-means on the two frames for limiting the sliding movement of the bed-frame in both directions.

2. In an apartment having an opening through the wall, and doors controlling said opening, a folding bed comprising an inner and an outer frame said outer frame supporting and forming a guide for the inner frame, and being pivotally hung between its ends within the wall opening, and said inner frame being a bed structure and comprising side rails, and foot and head boards, and being longitudinally slidable relative to the outer frame, rollers on the outer frame upon which the inner frame is mounted, and co-acting stop-means on the two frames for limiting the sliding movement of the inner frame in both directions, said outer frame having a weight to counterbalance the weight of said inner frame.

3. In a folding bed, the combination of a pivotally-mounted frame, a bed-frame slidably mounted for longitudinal movement therein, a plurality of rollers on the pivoted frame upon which the bed frame is mounted, brackets fixed to the pivoted frame and extending upwardly and having their upper ends turned transversely, said bed-frame having side rails and rails on the inner sides thereof and disposed beneath the transversely turned upper end of said brackets.

4. On a folding bed a frame pivotally mounted between its ends and adapted to fold into and out of an opening through the wall of an apartment, said frame having a weight bar fixed to its rear end, a bed frame

slidably mounted within and relative to the pivoted frame and supported endwise against said weight-bar when the two frames are vertically disposed, means for limiting the outward horizontal movement of the bed-frame, and a foldable leg-support at the front end of the pivoted frame.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN M. WILFLEY.

Witnesses:

J. FLETCHER, Jr.,

A. RICHTER.