

No. 859,994.

PATENTED JULY 16, 1907.

G. TERPENING.
EXTENSIBLE BEDSTEAD.
APPLICATION FILED JUNE 20, 1906.

2 SHEETS—SHEET 1.

Fig. 1,

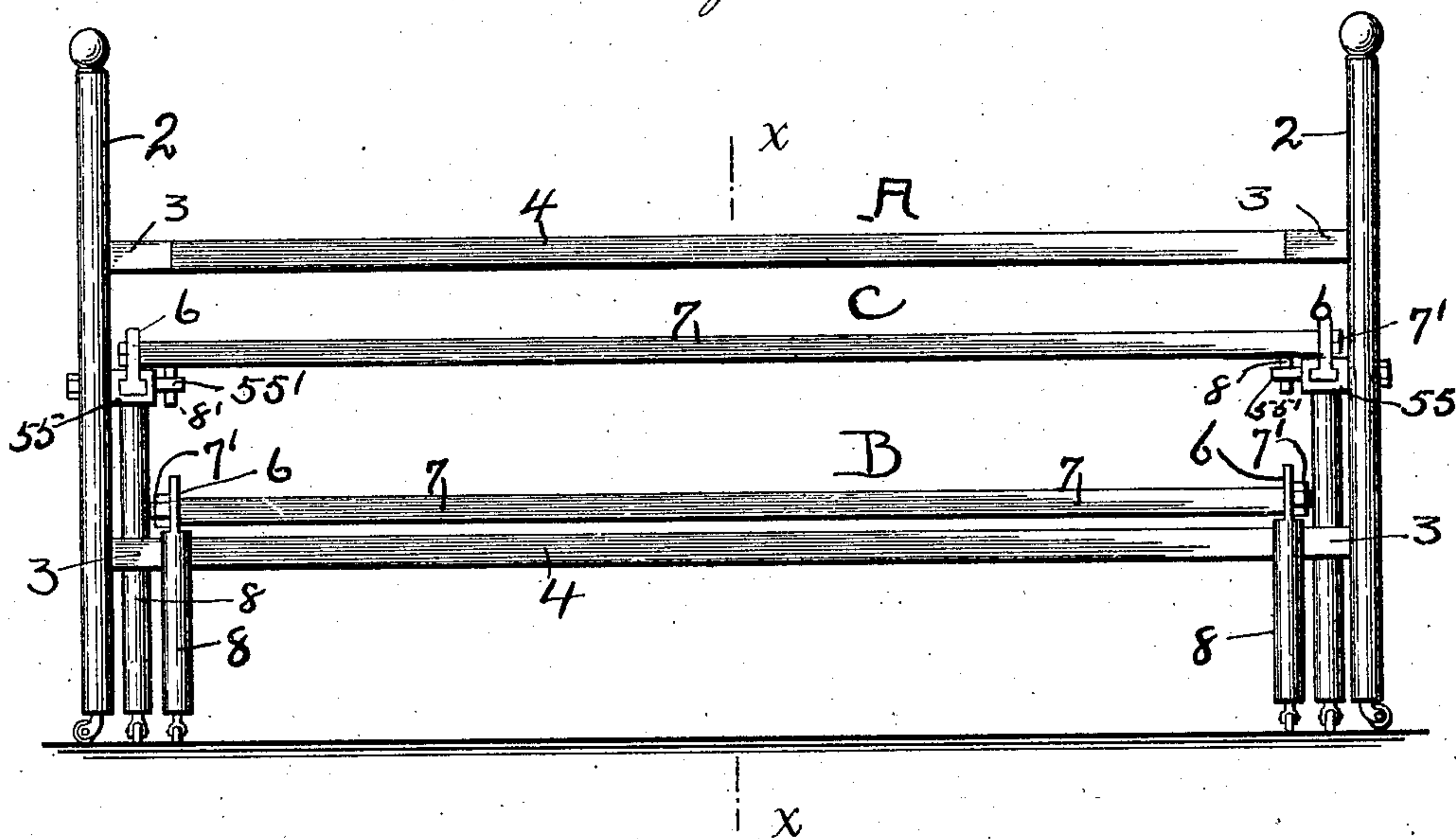
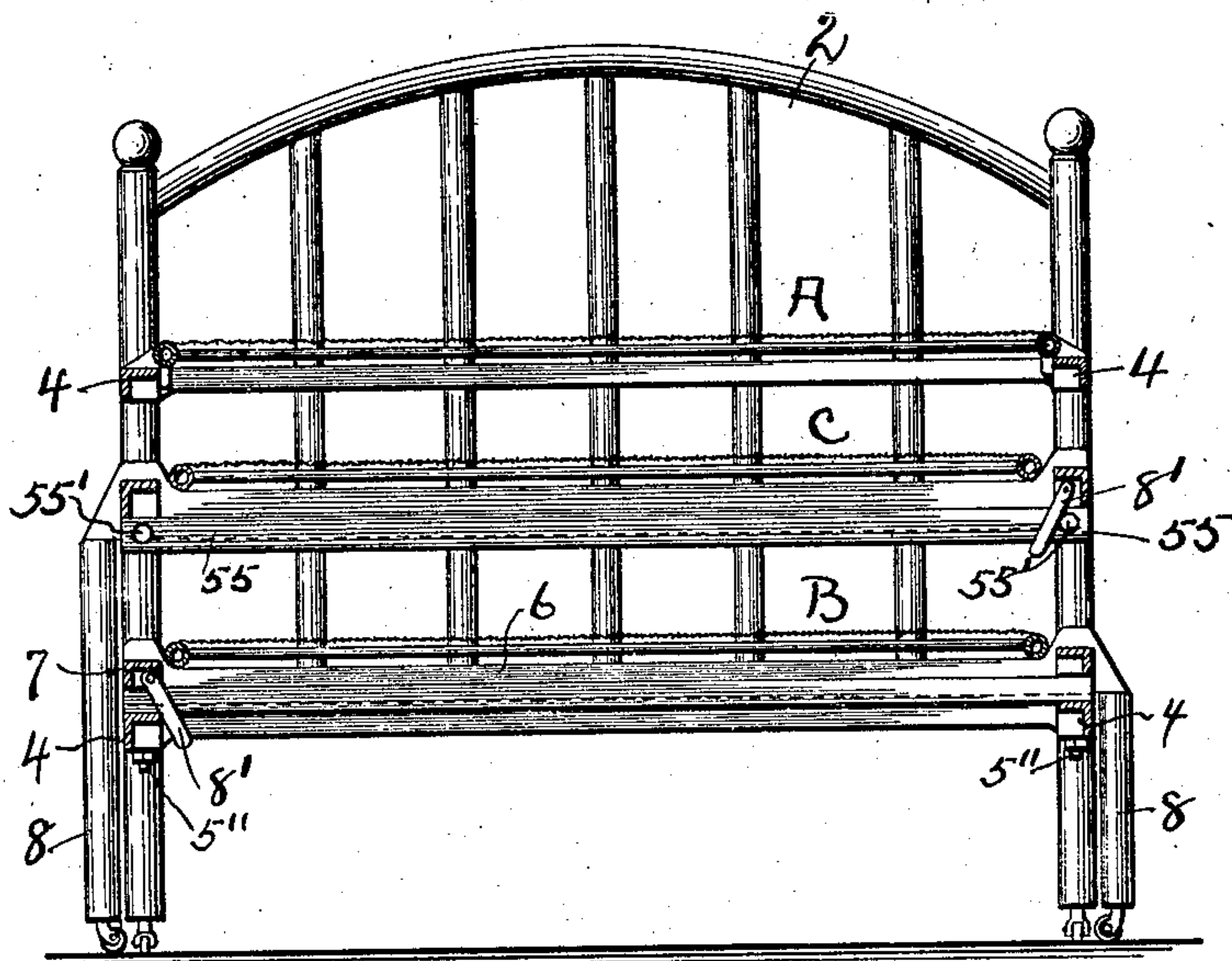


Fig. 2,



WITNESSES:
Max H. A. Doring.
Frederic B. Wright

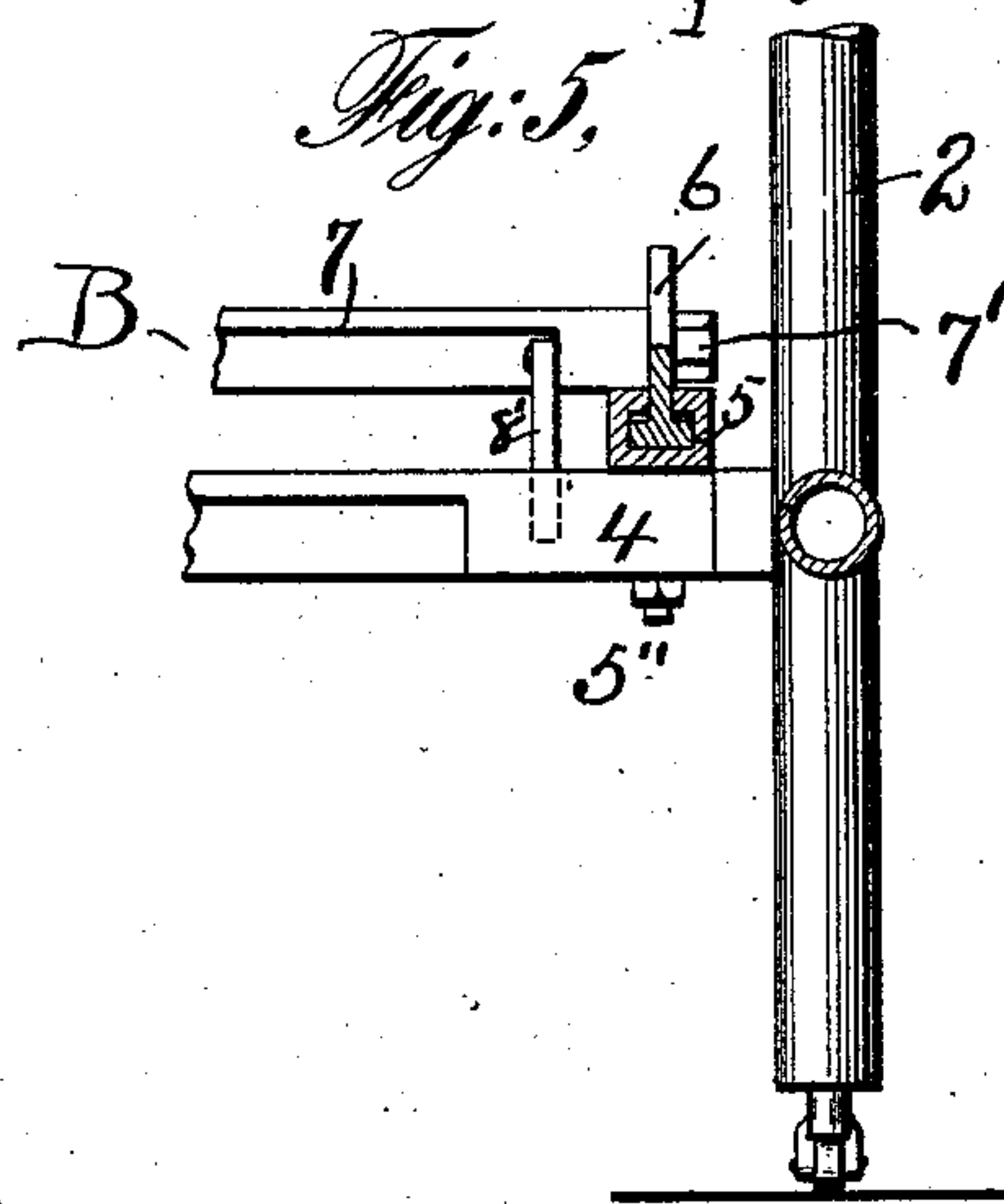
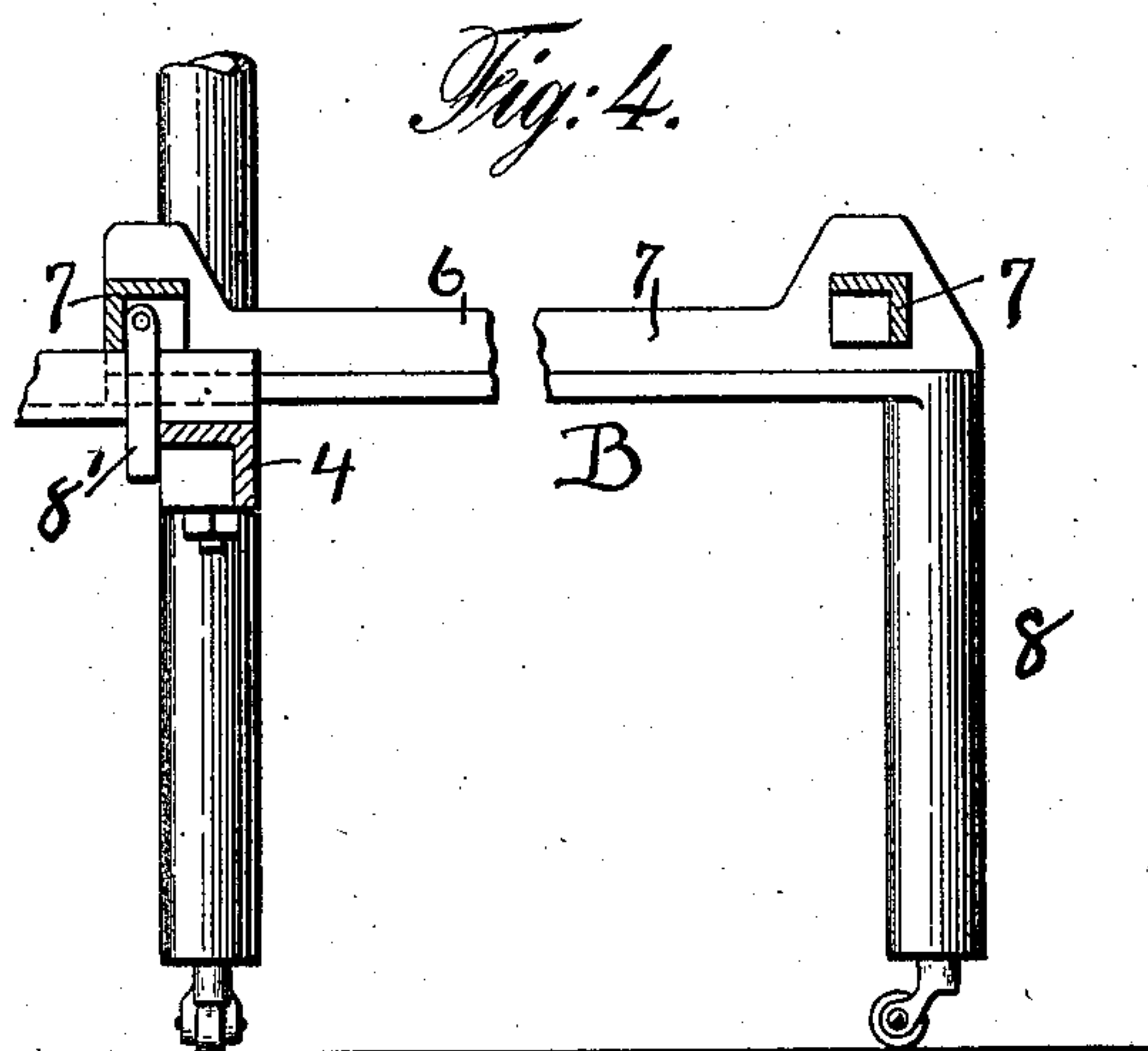
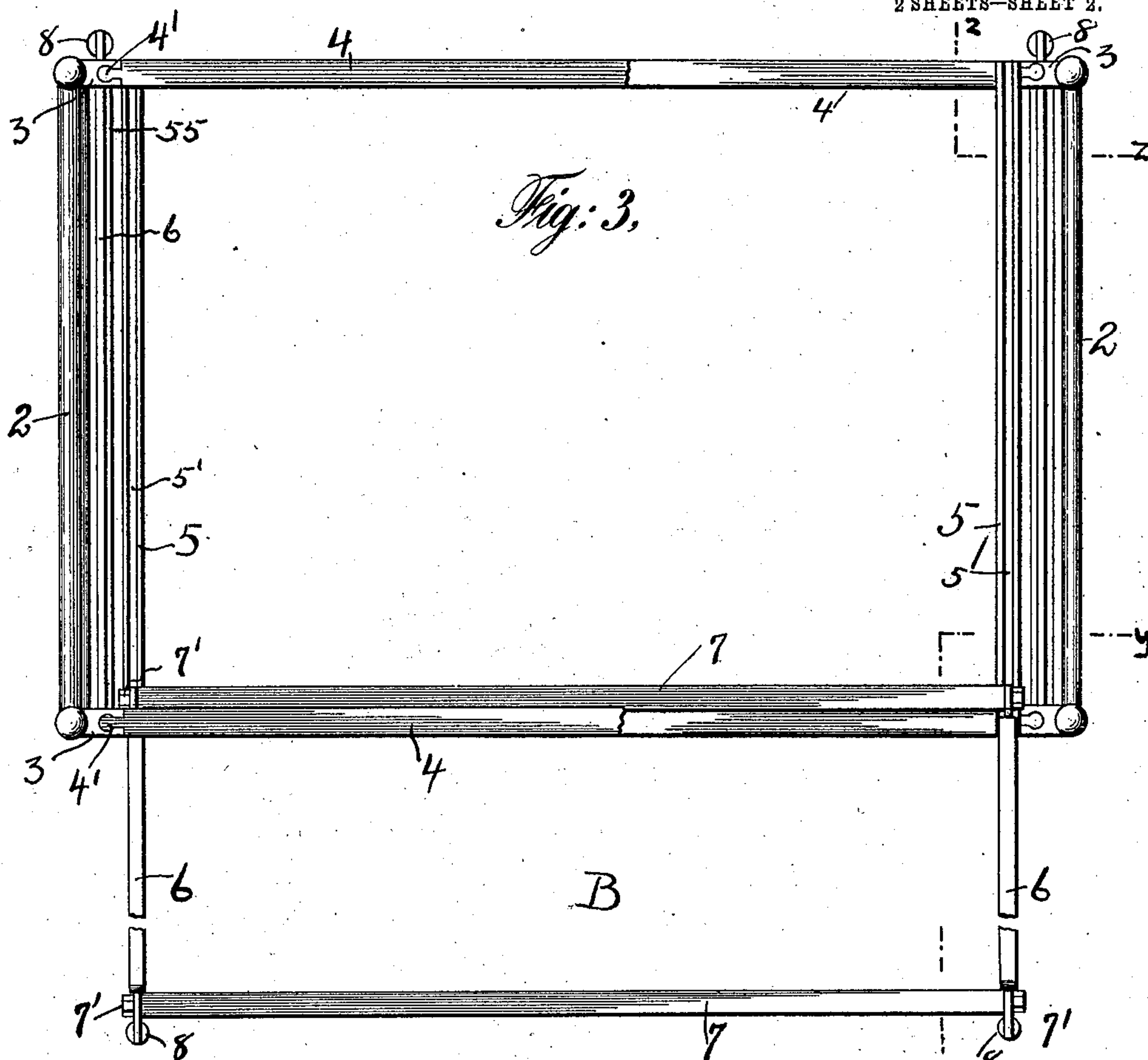
Garret Terpening INVENTOR
BY HIS ATTORNEYS *Henry D. Laugh*

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Max B. A. Doring.
Frederic B. Wright.

Garret Terpening
BY his ATTORNEYS
Hewitt & Laugel

INVENTOR

UNITED STATES PATENT OFFICE.

GARRET TERPENING, OF JERSEY CITY, NEW JERSEY.

EXTENSIBLE BEDSTEAD.

No. 859,994.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed June 20, 1905. Serial No. 266,141.

To all whom it may concern:

Be it known that I, GARRET TERPENING, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Extensible Bedsteads, of which the following is a specification.

My invention relates to folding or extensible bedsteads, and more particularly to bedsteads holding a plurality of mattress supporting frames adapted to be drawn out from the bedstead.

The object of my invention is to provide a bedstead which, when closed, shall occupy no more space than the ordinary bedstead of its kind, but which, when the sections thereof are drawn out, shall provide three times the mattress area of the bedstead when collapsed; which, when opened, shall not form merely a bed three times the size of an ordinary bed, but three separate beds, at different levels, and each with undiminished air space.

Extensible bedsteads have been heretofore so constructed that when the sections were closed provision was made for the carriage of but one mattress and therefore only one of the beds, that is, the upper one, could be made up. The bed clothing and mattress of the other bed had to be put away until the bedstead was opened up. When it was desired to extend a bed of this character either a mattress large enough to cover both beds had to be brought out or an auxiliary mattress to cover the auxiliary section. Two sections had then to be made up. After the bed had been slept in and it was desired to make it up there was no place for the auxiliary mattress and bed clothes and they had to be stowed away. It is to obviate just such inconveniences as this that I have devised my invention. My bed accommodates two or three mattresses and beds all ready and made up at any and all times whether the bed be open or closed. Again, all other extensible beds are so devised that the mattresses shall be upon the same level. This is very well for couches or sofas which are of a width too small to accommodate one person comfortably but where there are young children or a family of children it is hygienically best that the beds be upon different levels so that the grown person shall not roll over upon the child (an accident quite common with very young children) nor turn so that their faces are on a level.

My invention consists in certain constructions and arrangements of parts as will be hereinafter distinctly set forth in the claims.

In the accompanying drawings, Figure 1 is a side elevation of the bedstead. Fig. 2 is a transverse section on line $x-x$ Fig. 1. Fig. 3 is a top plan view. Figs. 4 and 5 are enlarged detail sections of the framing of the bedstead on the line $y-y$ and $z-z$ respectively.

In all the figures, like numerals designate like parts, and therein 2 2 designate the head and foot frames of the bed of any ordinary construction, but preferably of metal tubes as I have shown them. Formed on the corner posts of the head and foot frames—as by casting—are the side-bar socket pieces 3, having the usual dovetail recesses for the reception of the tongues 4' of the side bar 4. Iron or brass bedsteads of this kind have two side bars, level with each other and supporting one spring mattress frame at a small height above the floor, this mattress frame being fixed, in the sense that normally it is supported within the parallelogram of the bedstead.

My invention contemplates the use of a fixed or main mattress frame A as usual in bedsteads and of one or more auxiliary mattress supporting frames B C either above or below the main frame sliding into the bedstead frame, and supported on or partly on the end rails and capable of being withdrawn out from said bedstead much as a drawer is drawn out from a chest of drawers. Preferably the fixed mattress frame is the uppermost one and the auxiliary frames are located beneath it, and this construction I have shown in the drawings. I use two pairs of side bars 4, one above the other, both pairs having tongues 4' seating in the socket pieces 3.

5, 5 designate transverse rails at both ends of the lower pair of side rails 4. These form slide ways on which the lower mattress frame slides. Preferably they inclose a \perp -shaped groove 5' in which the \perp -shaped angled bars 6, 6 of the mattress frame fit and slide—as shown clearly in Fig. 5. I have shown these rails 5, 5 as fastened to the lower side bars 4, 4 by bolts 5'' but any other attachment may be used. I use that means preferably, as thereby one end bolt may be removed and the rail 5 be swung around onto the side bar 4 when the bedstead is taken apart. This makes it convenient for packing.

The auxiliary mattress supporting frame as B is composed of two end bars 6, 6 and two longitudinal stretchers 7, 7. The end bars 6 are formed of \perp -shaped angle iron, and the stretchers of T-shaped angle iron bolted at their ends to the bars 6 by bolts 7'. The end bars should be adapted to hold a mattress thereon—as by cutting the bar away between its ends as shown most plainly in Figs. 2 and 4. In Fig. 2 I have represented the ordinary spring mattress as in position on the several supporting frames, but for clearness I have omitted them from the other drawings. The inner side of the mattress-supporting frame when pulled out, is supported by the main bed frame and in order to support the outer side, I provide legs 8, 8 which may be of any suitable form, but which I think are best made integral with the end bars 6.

In order to prevent the auxiliary frame from being drawn out too far, I use stops attached to the inner

stretcher, as clearly shown in Fig. 4. These are preferably arms or latches 8' pivoted so that they may be easily lifted up to permit the auxiliary frame to be entirely withdrawn, if desired. Normally, the pivoted latches 8' hang down as shown in Fig. 4, and by contacting with the side bars 4, prevent the auxiliary frame from being drawn out too far or becoming accidentally misplaced.

So far I have described a main or fixed mattress supporting frame A and one auxiliary, shiftable frame B located beneath the fixed frame. It is to be noted that in this connection the one auxiliary frame B—as it is alike at both ends—may be inserted at either side of the bed, as most convenient, so that it is adaptable to any arrangement of furniture or plan of room.

To provide for the use of an additional mattress and thereby for three beds in one, I may use a second auxiliary mattress supporting frame C adapted to slide in between the frames A and B and to be drawn out on the opposite side. The frame itself is formed of end bars 6 and stretchers 7, exactly as is frame B, and it may be mounted on slide rails 5, 5 supported on side bars 4, as is the frame B,—but in order to illustrate a modified form of mounting I have shown the slide rails 5, 5, as bolted directly to the corner post 3 of the end frames. Any other form of suitable attachment may be used, however. As there is no stretcher for the latches 8 to engage with, I provide the projecting pin or lug 55' against which the latches 8 contact, as shown in Figs. 1 and 2. Thus I provide a bedstead with one fixed bed and two auxiliary beds capable of being drawn out to a greater or less extent and tripling the area of bearing surface while taking up no more room than an ordinary bed.

My invention has a number of advantages over the ordinary folding bed in that the bedding is not closed up, thus excluding it from air, nor does the closing up of the auxiliary beds tend to disturb the mattress and bed-clothes. It is besides more capacious than any folding bed,—as it equals three full sized beds when drawn out, which would make the folding bed too cumbersome for practical use, nor does the use of any one mattress require the extension or unfolding of the others. In addition, it is to be noted, that each mattress is on a different plane. This is particularly of advantage in that the occupants of one mattress cannot disturb or roll against those of another,—and also that this arrangement gives better air to the users than if they were on a level.

The several beds can be aired properly, and easily made up, and then slid back into place,—which is not the case with beds simply arranged in tiers. The construction of the bedstead is so simple that it cannot get out of order,—and as it is formed of the same elements as the ordinary iron or brass bedstead it can be very cheaply manufactured. It is obvious also that in case the auxiliary beds are not required the lower side bars may be easily removed and the upper side bars substituted when the bed is of the ordinary style.

This bedstead may be used with advantage in hotels—where it is often requisite to provide additional bed space at short notice. In this case the bedstead could normally be arranged to support the ordinary fixed mattress on the lowest level—as described, and be easily adjusted for the insertion of the auxiliary bed frames. Again, for the use of families living in con-

tracted quarters,—where economy of space was needed, this bedstead would be of great utility.

Having described my invention what I claim is:

1. A bedstead having end frames, an upper and a lower socket located on each corner of the end frames, upper side bars extending from one of said frames to the other of said frames having ends adapted to engage with the said upper sockets, lower side bars located beneath the upper bars and extending from one end frame to the other having ends adapted to engage with the said lower sockets, in combination with an auxiliary mattress supporting frame having legs on one side thereof, the other side being supported on one of the said lower side rails.

2. A bedstead having end frames, an upper and a lower socket located on each corner of the end frames, upper side bars extending from one of said frames to the other of said frames having ends adapted to engage with the said upper sockets, lower side bars located beneath the upper bars and extending from one end frame to the other having ends adapted to engage with the said lower sockets, slide rails supported on and removably attached to the two lower side bars, in combination with an auxiliary mattress supporting frame having legs on one side thereof, and having transverse end bars adapted to engage with the slide rails of the lower side bars.

3. A bedstead having end frames, an upper and a lower socket located at each corner of the end frames, main side bars having ends adapted to engage with either the upper or the lower sockets, auxiliary side bars adapted to engage with the lower sockets, auxiliary slide rails pivotally mounted upon said auxiliary side bars to be folded into line with said auxiliary side bars, in combination with an auxiliary mattress supporting frame having legs on one side thereof, the other side being adapted to be supported on the said slide rails, substantially as described.

4. A bedstead having end frames, an upper and a lower socket located at each corner of the end frames, main side bars having ends adapted to engage with either the upper or the lower sockets, auxiliary side bars adapted to engage with the lower sockets, longitudinally slotted auxiliary slide rails pivotally mounted upon said auxiliary side bars to be folded in line with said auxiliary side bars, in combination with an auxiliary mattress supporting frame having legs on one side thereof and end bars adapted to engage with the slotted track of the slide rails, substantially as described.

5. A bedstead comprising end frames, two upper side bars removably engaging with said end frames and adapted to support a mattress, two lower side bars removably engaging with said end frames, transverse slide rails supported on the bedstead near the end frames, said rails extending entirely across the bedstead and opened at both ends for the insertion of the auxiliary mattress supporting frame, a mattress supporting frame adapted to be supported by said slide rails, stretchers attached to said end pieces, latches adapted to engage with the slide rails when side of said auxiliary frame, substantially as described.

the auxiliary frame is pulled out and legs on the other

6. A bedstead comprising end frames, provided with upper socket pieces and lower socket pieces, two pairs of side rails having tongues adapted to engage with said sockets, a channeled transverse slide rail bolted to the said lower side rails, an auxiliary mattress supporting frame, said frame consisting of end bars adapted to engage and slide in the said channeled rails, and stretchers removably attached to said end bars and provided with gravity latches adapted to engage with said side pieces to prevent the auxiliary frame from being slid entirely out from engagement with the channeled bars, the upper edge of said end bars being cut away between its extremities for the reception of a mattress frame, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GARRET TERPENING.

Witnesses:

JOSEPHINE A. VERNON,
F. B. WRIGHT.