

F. M. WILSON & E. C. BROCK.

BED.

APPLICATION FILED JUNE 9, 1909.

Patented Feb. 1, 1910.

2 SHEETS—SHEET 1.

948,120.

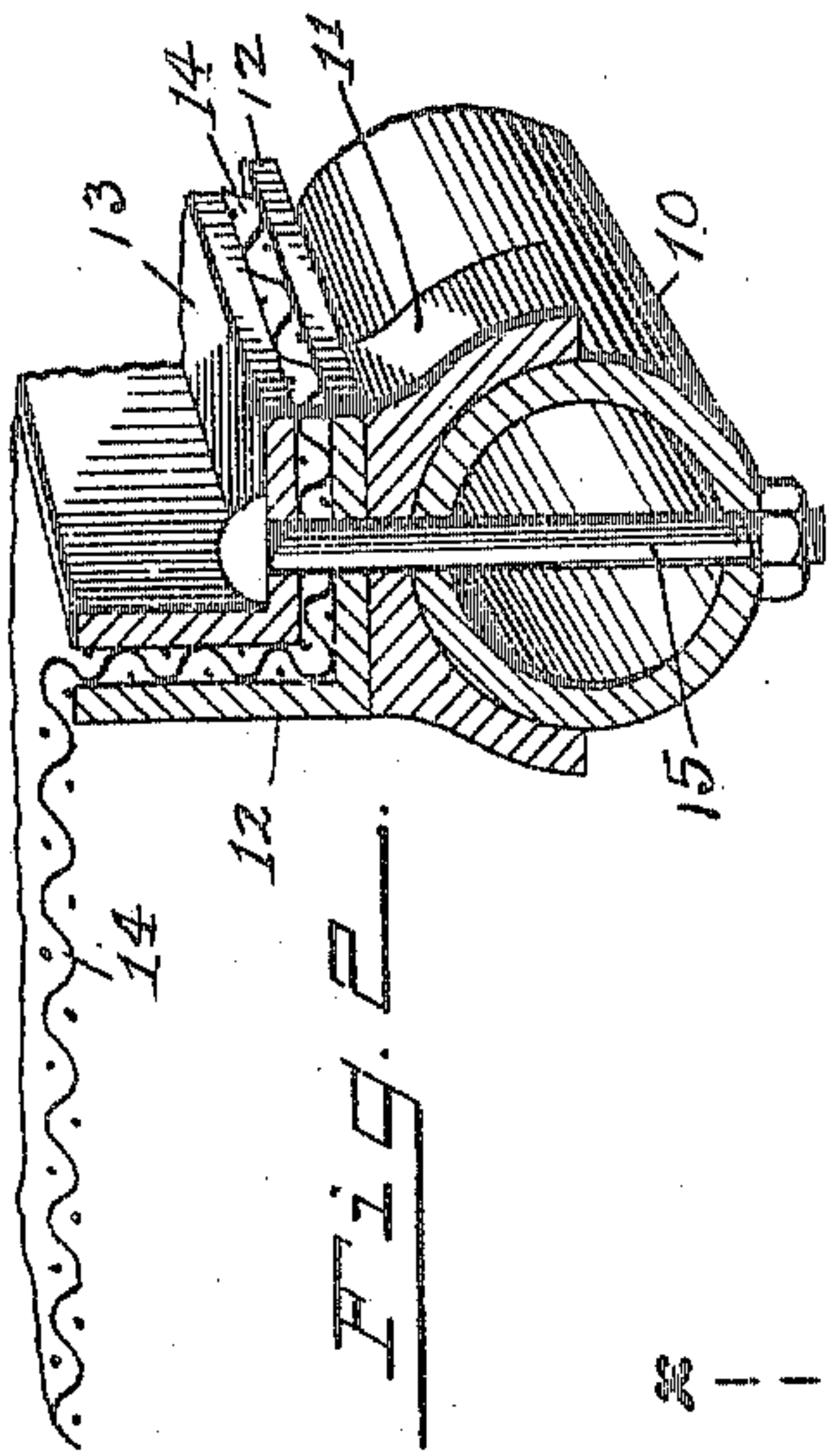


Fig. 2.

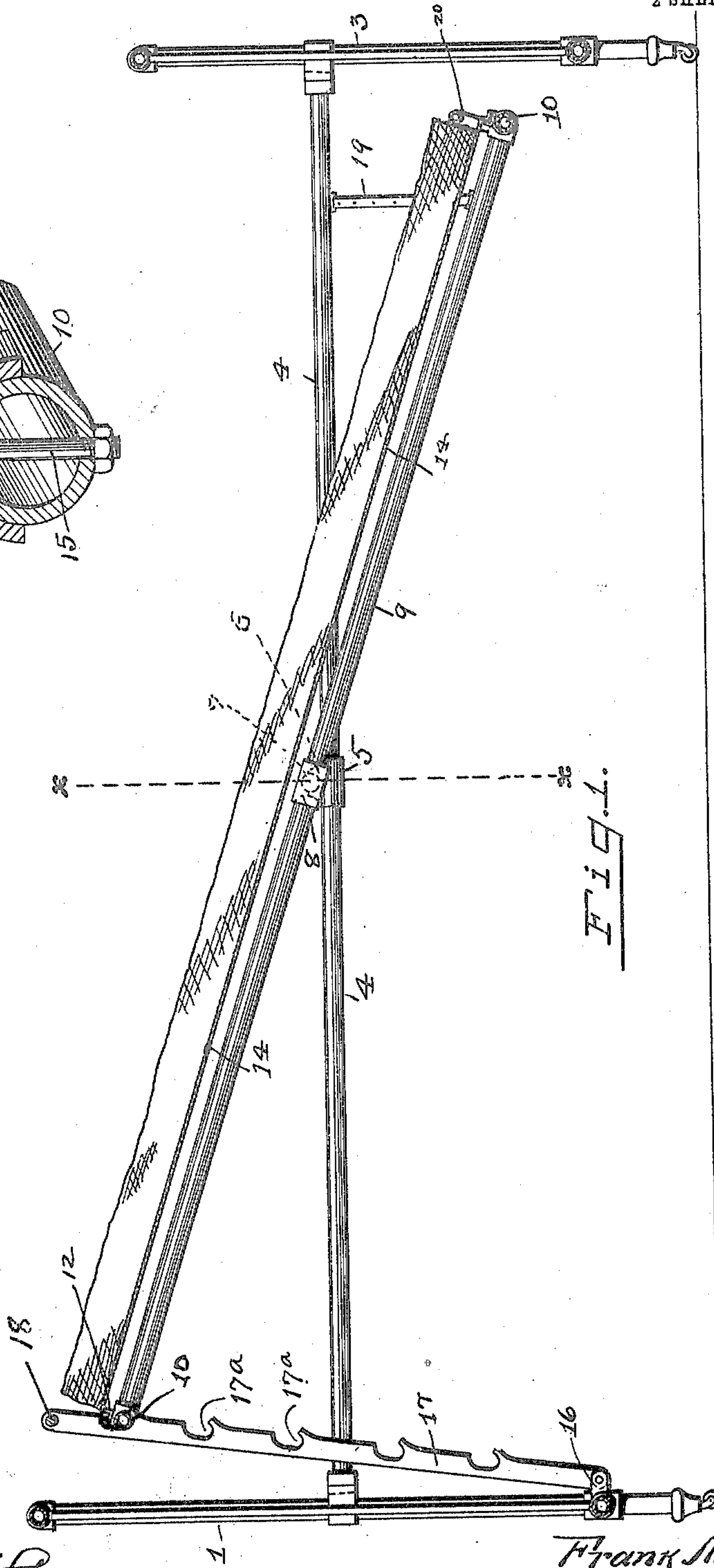


Fig. 1.

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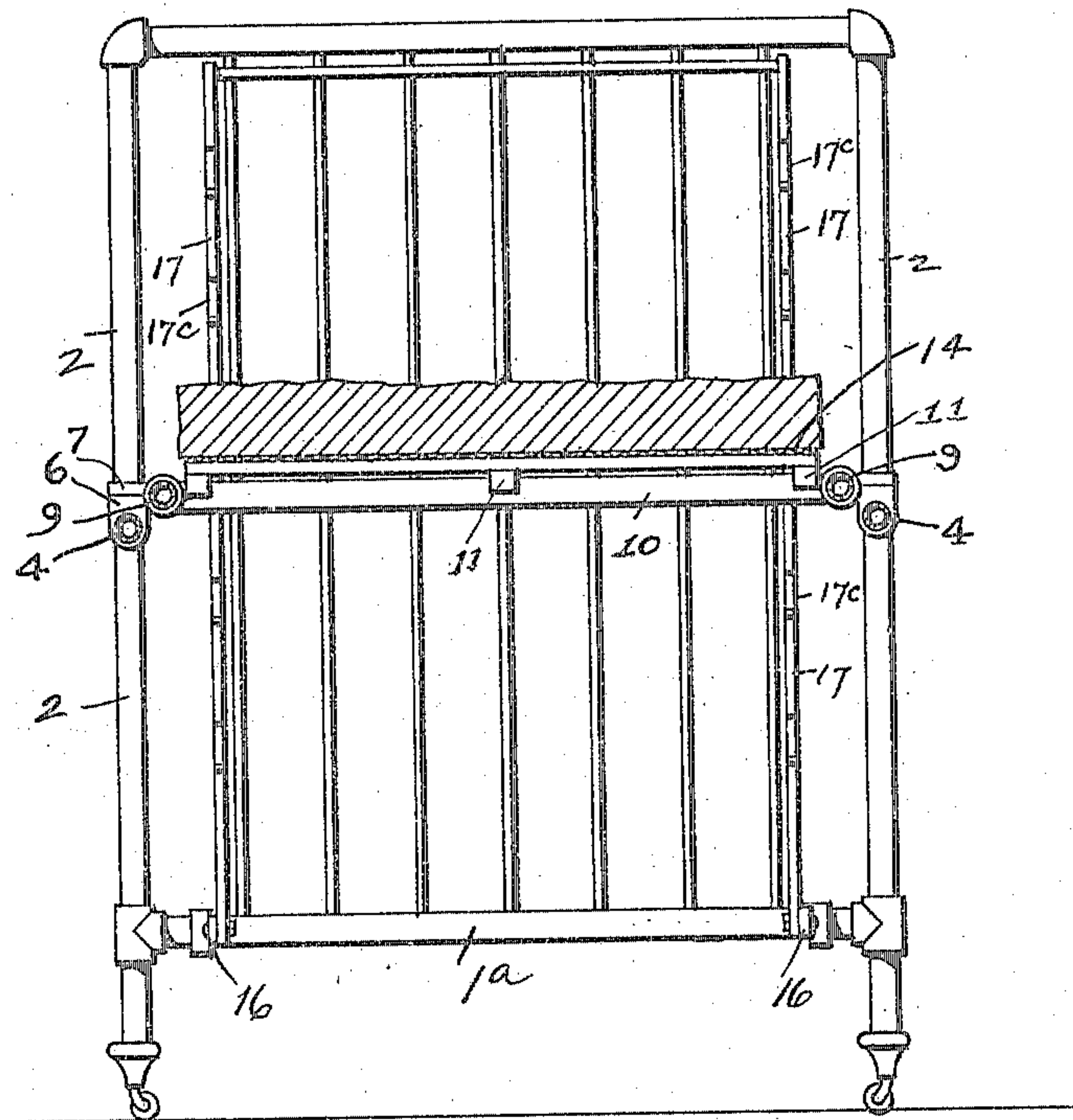


Fig. 3.

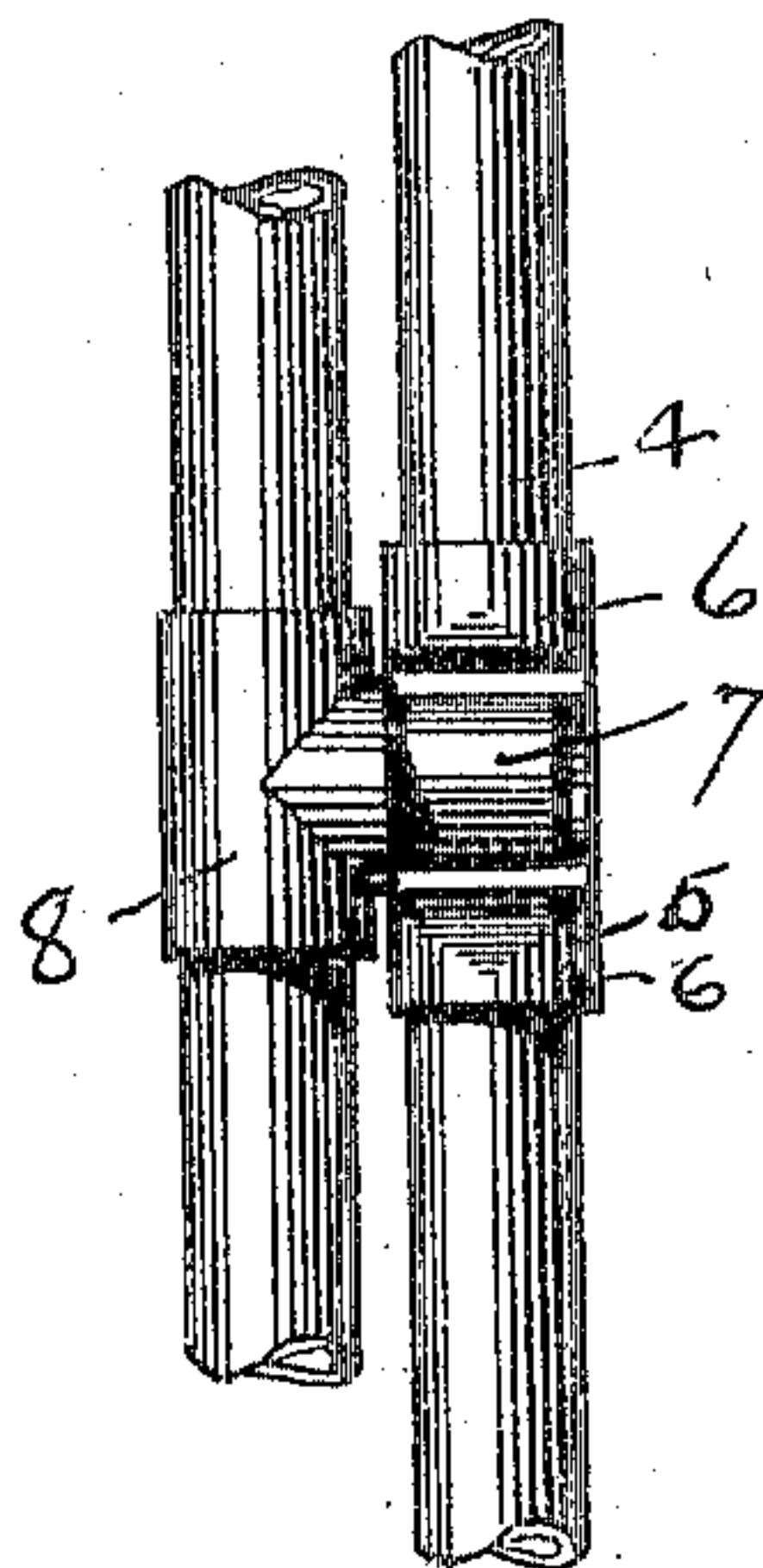


Fig. 4.

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UNITED STATES PATENT OFFICE

FRANK M. WILSON AND EVAN C. BROCK, OF COLUMBUS, OHIO.

BED.

948,120.

Specification of Letters Patent.

Patented Feb. 1, 1910.

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To all whom it may concern:

Be it known that we, FRANK M. WILSON and EVAN C. BROCK, citizens of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Beds, of which the following is a specification.

Our invention relates to the improvement of beds and has particular relation to that class of beds which are adapted for use in hospitals or sick rooms, and the objects of our invention are to provide a bed of this class of simple and reliable construction comprising improved means for adjusting the mattress supporting frame to various angles; to provide in conjunction with the mattress frame, improved means for retaining a woven wire mattress in connection therewith, and to produce other improvements the details of which will be more fully pointed out hereinafter. These objects we accomplish in the manner illustrated in the accompanying drawings, in which:

Figure 1 is a central vertical longitudinal section of our improved bed, Fig. 2 is a detail view partly in section and partly in perspective illustrating the means of supporting the mattress spring ends in connection with the mattress supporting frame, Fig. 3 is a sectional view on line $x-x$ of Fig. 1, showing the mattress in a horizontal position, and, Fig. 4 is a detail plan view showing the connection between the mattress supporting frame and side frame members of the bed.

Similar numerals refer to similar parts throughout the several views.

In carrying out our invention, we employ a suitable form of head frame 1, which comprises connected standards 2 preferably of metal. 3 represents a similarly constructed bed foot frame, which is preferably of less height than the head frame 1. Between the side frame standards 2 of the head frame and between the corresponding side frame standards of the foot frame, extend fixed horizontal side rails 4, the latter being preferably formed of piping, as shown. About the center of the length of each of the side rails, is provided a sleeve 5 from which projects upwardly a bearing lug 6 and in the rounded under side depressions or recesses of these lugs, are mounted the laterally projecting trunnions 7 of sleeves 8 which are carried on the centers of the lengths of

parallel side frame members 9 of a bed spring supporting frame. This supporting frame further consists in transverse end rods or pipe sections 10 which connect the ends of said members 9.

Upon each of the cross members 10 are provided at suitable intervals, yoke-like supporting brackets 11, the recessed undersides of which embrace the upper half of the member 10, while the upper side of each of the brackets is horizontal, as shown. Upon each set of these brackets is mounted the lower horizontal flange of an angle bar 12, one of which is thus supported above each of the members 10. Above each of the angle bars 12 is a second or upper angle bar 13 and between the pairs of angle bars thus provided at each end of the bed spring supporting frame, are inserted the ends of a suitable form of woven wire or flexible bed spring 14, said bed spring ends being made to pass downward, as shown more clearly in Fig. 2 of the drawing, between the upright members of the angle bars 12 and 13 and thence between the horizontal members thereof. Said spring ends are securely clamped in this position through the medium of vertical bolts 15, which pass downward through the horizontal members of each pair of angle bars and through the upturned end portion of the spring, thence through the brackets 11 and frame members 10.

Extending from the lower cross frame member 1^a of the head frame near each side of said frame, is a bracket arm 16. Pivoted to each of the bracket arms 16 is the lower end of an upwardly extending rack bar 17, the latter being formed on its inner edge portion at suitable intervals with rounded pockets or recesses 17^a and the upper ends of said bars 17 are connected one to the other by means of a transverse connecting rod 18.

As shown in the drawing, the front or head spring frame member 10 is adapted to be supported in two opposing notches or recesses of the bars 17 and it is obvious that the angle at which the spring frame stands with relation to the side rails of the bed, must depend upon the height of the notches engaged. In order to limit the downward swinging movement of the rear end of the spring frame, we provide straps 19 which depend from the rails 4 and which are secured to the rear portions of the frame members 9.

From the construction shown and described, it will be understood that the mattress on which the patient is supported may be readily raised or lowered from a horizontal position to the desired inclined position, by lifting the forward frame member 10 out of one pair of notches in the bars 17 and dropping said frame member 10 into higher or lower notches thereof. In order to insure the retention of the mattress upon the spring and prevent its sliding downward when the head of the spring frame is elevated, we provide the rear frame member 10 with an upwardly projecting stop frame 20 against which the lower end of the mattress may bear.

It will be observed that our improved bed is simple of construction and that the main framework of both the bed and bed frame and spring frame, may be constructed of ordinary piping.

From the foregoing description, it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claims.

What we claim, is:

1. In a bed, the combination with a bed frame comprising upright head and foot members and parallel side rails, of a spring carrying frame comprising parallel side frame members and end frame members, said side frame members being pivotally supported from the bed frame side rails intermediate the ends of said side frame members, a pair of bars pivotally connected at

their lower ends to the bed frame head member at the lower portion thereof, a transverse bar connecting the upper ends of said first named bars, the front faces of said bars being toothed to cause them to engage detachably the forward end frame member of the spring frame, said transverse connecting bar causing said toothed bars to move in unison and said toothed bars engaging the forward end frame member of the spring frame adjacent its upper ends.

2. In a bed, the combination with a bed frame comprising upright head and foot members and parallel side rails, of a spring carrying frame comprising parallel side frame members and end frame members, said side frame members being pivotally supported from the bed frame side rails intermediate the ends of said side frame members, a pair of bars pivotally connected at their lower ends to the bed frame head member at the lower portion thereof, a transverse bar connecting the upper ends of said first named bars, the front faces of said bars being toothed to cause them to engage detachably the forward end frame member of the spring frame, said transverse connecting bar causing said toothed bars to move in unison and said toothed bars engaging the forward end frame member of the spring frame adjacent its upper ends, and flexible members secured to the bed frame side rails adjacent the foot thereof and also secured to the spring frame to limit the downward movement of said spring frame.

In testimony whereof we affix our signatures in presence of two witnesses.

FRANK M. WILSON.
EVAN C. BROCK.

Witnesses:

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