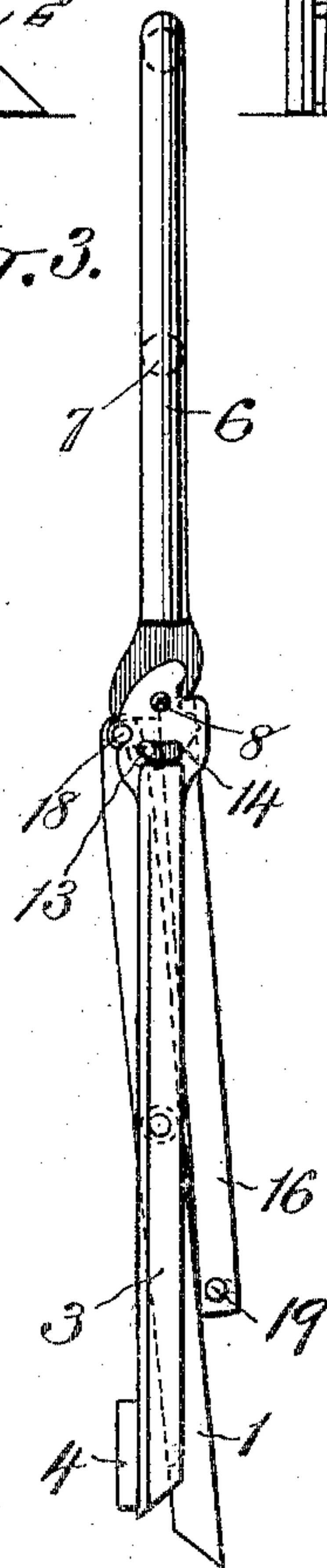
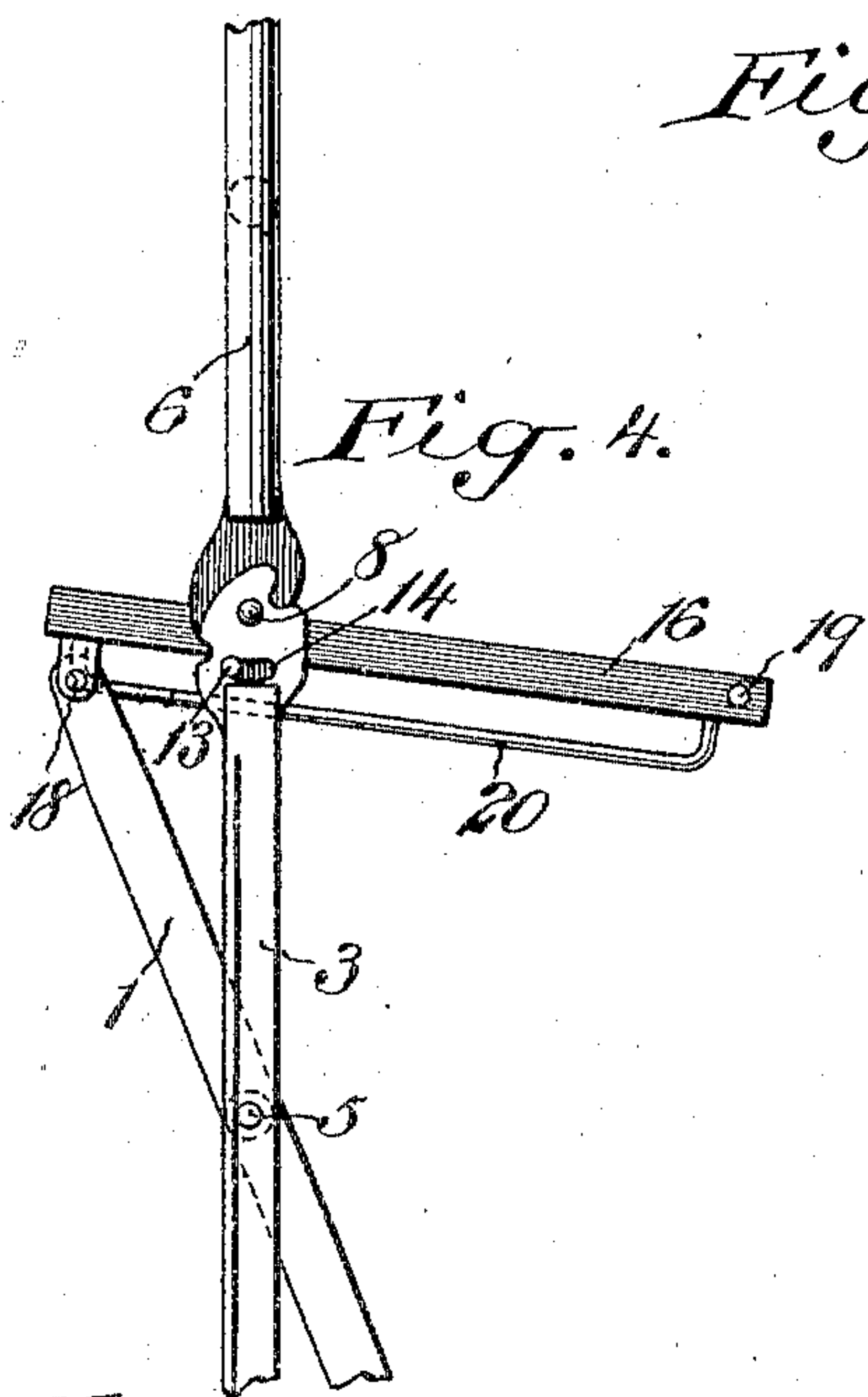
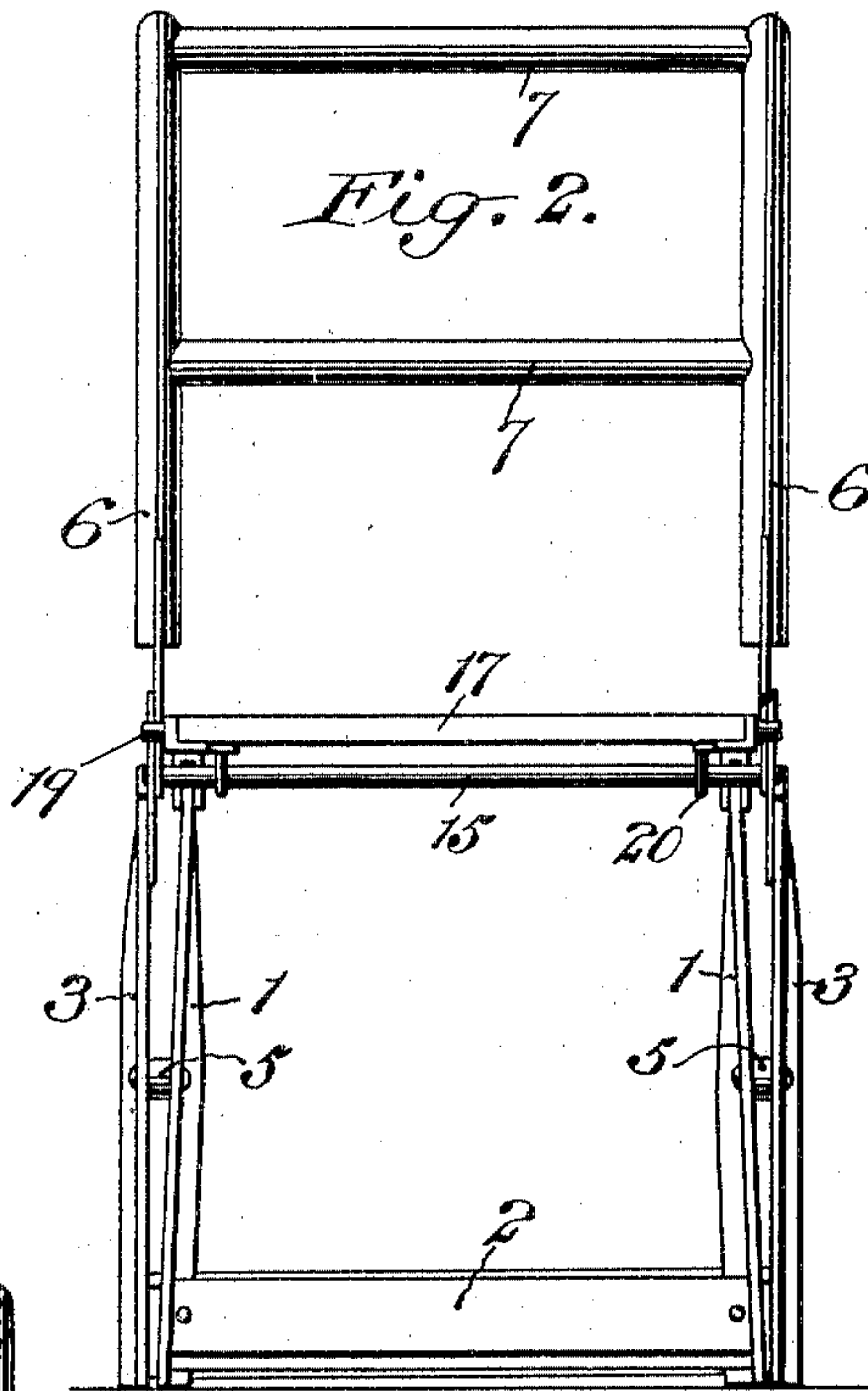
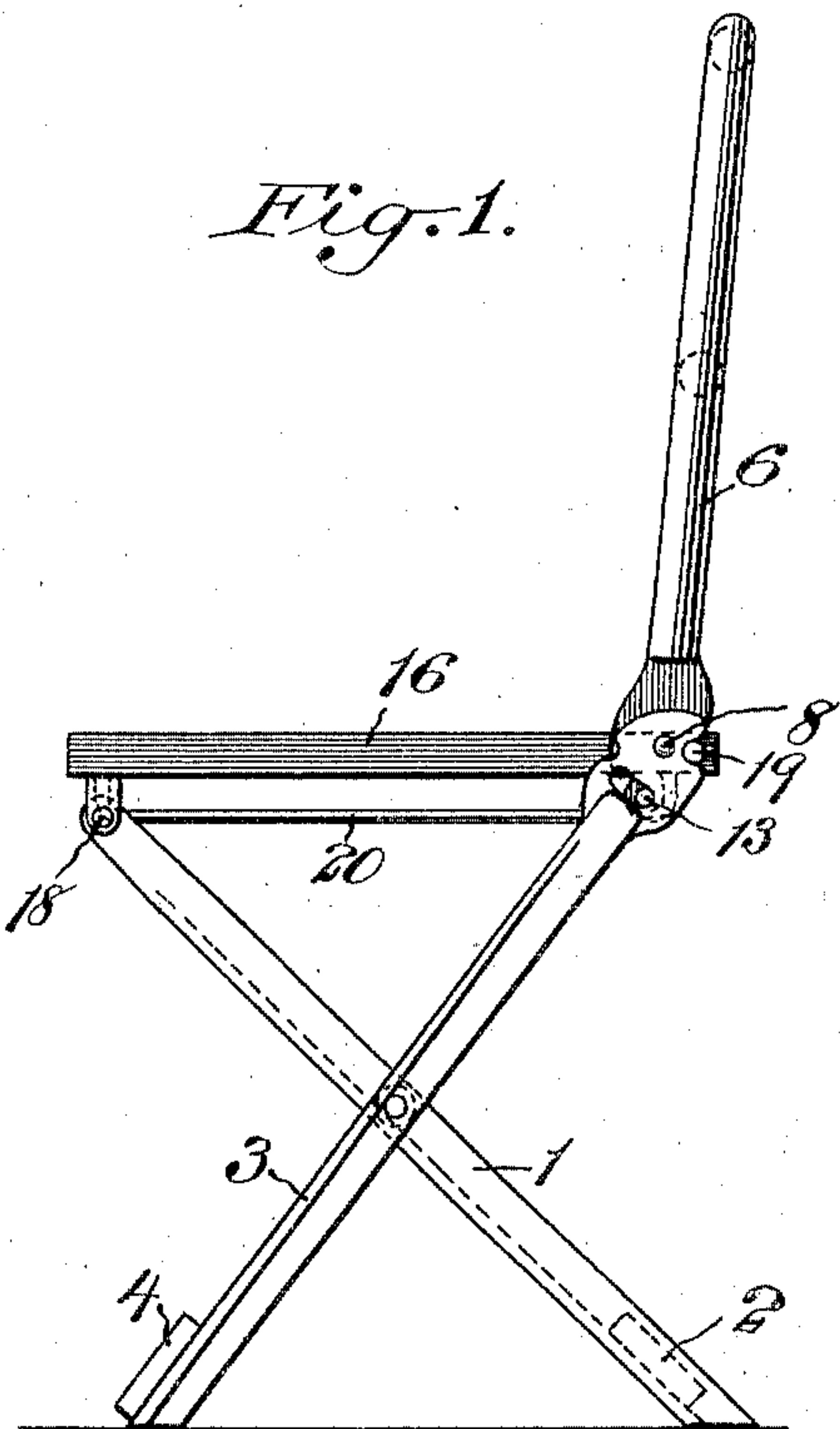


No. 780,007.

PATENTED JAN. 10, 1905.

C. METTLER.
FOLDING CHAIR.

APPLICATION FILED MAR. 4, 1904.



Witnesses:
J. George Barry,
Henry Thieme

Inventor:
Casper Mettler
by attorney
H. H. H. H. H.

UNITED STATES PATENT OFFICE.

CASPAR METTLER, OF NEW HAVEN, CONNECTICUT, ASSIGNOR OF ONE-HALF TO ROLLIN S. WOODRUFF, OF NEW HAVEN, CONNECTICUT.

FOLDING CHAIR.

SPECIFICATION forming part of Letters Patent No. 780,007, dated January 10, 1905.

Application filed March 4, 1904. Serial No. 196,492.

To all whom it may concern:

Be it known that I, CASPAR METTLER, a citizen of the United States, and a resident of New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Folding Chairs, of which the following is a specification.

My invention relates to an improvement in folding chairs, and has more particularly for its object to provide certain improvements in the construction, form, and arrangement of the several parts of the folding chair whereby the back of the chair may be locked in a plane at a forward angle to the plane of the pair of legs to which it is hinged when the chair is unfolded in position for use and which may be locked in the same plane with the side pair of legs when the chair is folded.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 represents the chair in side elevation in its unfolded position. Fig. 2 is a back view of the same. Fig. 3 is a view in side elevation of the chair in its folded position. Fig. 4 is a detail side view showing the chair partially folded. Fig. 5 is an enlarged detail side view showing the position of the side members of the back when the chair is in its unfolded position for use, and Fig. 6 is a similar view showing the position which the side members of the two pairs of legs and the seat assume when the chair is folded.

The members of one pair of legs are denoted by 1, which members are connected by one or more cross-pieces 2. The two members of the other pair of legs are denoted by 3, and they are connected by one or more cross-pieces 4. These two pairs of legs are crossed and hinged together about midway their ends, as shown at 5.

The side members of the back are denoted by 6, and they are connected by one or more cross-pieces 7. The lower end of each of the side members 6 of the back is hinged to the upper end of each of the side members 3 of one pair of legs, as shown at 8. These ends of the side members 6 and 3 are flattened and overlap each other. The back edge of

the side member 6 is provided with a recess 9, which is arranged to register with a recess 10 in the back edge of the leg member 3 when the back member is swung into a position at a forward angle with respect to the plane of the leg member 3. The front edge of the leg member 3 is provided with a recess 11, which is fitted to register with a recess 12 in the front edge of the back member 6 when the two members are in the same plane. The swinging movement of the back member 6 is limited with respect to the leg member 3 by a pin-and-slot connection, in the present instance the pin 13 being shown on the back member 6 and the slot 14 in the leg member 3. These pins 13 in the present instance are formed by an extension of a cross-bar 15, which connects the lower ends of the back members 6 below their hinged connections 8 with the leg members 3.

The side members of the seat are denoted by 16 and are connected by a plurality of cross bars or slats 17. The front end of each of these side seat members 16 is hinged at 18 to the upper end of a leg member 1 of one pair of legs. The stud which forms the hinged connection between the front end of the seat member and the leg member projects outwardly a short distance and is fitted to enter the front recesses 11 and 12 in the leg and back members 3 and 4 when the chair is folded for locking the parts in their folded position. The inner end of the side seat member 16 is provided with a laterally-extended stud 19, which is fitted to enter the back recesses 9 and 10 in the back and leg members 6 and 3 when the chair is unfolded for locking the back member at a predetermined forward angle with respect to the plane of the leg member 3. I preferably provide one or more travelers 20 along the bottom of the seat, which confine the seat upon the cross-bar 15.

When the chair is in its folded position, the back and one pair of legs are in alinement and the seat and other pair of legs are in parallel planes at a very slight angle off the plane of the back and first-mentioned pair of legs.

In the present instance I have shown the side members of the two pairs of legs and seat

as of angle-iron construction for giving great strength to the chair, and the cross-pieces therefor may be made of wood or other suitable material. The side members and cross-
 5 pieces of the back are herein represented of tubular form for producing a very strong back for withstanding especially hard usage.

What I claim as my invention is—

1. A chair comprising two pairs of legs
 10 hinged together, a back hinged at its bottom to one pair of legs, means for limiting the swinging movement of the back with respect to its legs, the said back being permitted to assume a position in the same plane as the pair
 15 of legs when the chair is folded and in a forwardly-tilted position with respect to said pair of legs when the chair is unfolded, a seat hinged to the other pair of legs and having a sliding engagement with the back and means
 20 carried by the seat for locking the back in its forwardly-tilted position.

2. A chair comprising two pairs of legs hinged together, a back hinged at its bottom to one pair of legs for permitting the back to
 25 be swung into the same plane as its legs when the chair is folded and into a forwardly-tilted position with respect to the legs when the chair is unfolded, a seat hinged to the other pair of legs and having a sliding engagement
 30 with the back and means carried by the seat for locking the back at the limit of its movement in both directions.

3. A chair comprising two pairs of legs hinged together, a back hinged to one pair of
 35 legs, the corresponding back and leg side mem-

bers being provided with recesses arranged in position to register when the back is swung into a forwardly-tilting position with respect to its pair of legs, a seat hinged to the other pair of legs and a stud carried by the seat fitted to enter said recesses to lock the back in its forwardly-tilted position. 40

4. A chair comprising two pairs of legs, a back hinged to one pair of legs, the corresponding back and leg members being pro- 45 vided with pairs of front and back recesses, one pair of recesses being fitted to register when the back is in alinement with the legs and the other pair being fitted to register when the back is in a forwardly-tilted position with 50 respect to the legs, a seat hinged to the other pair of legs and studs carried by the seat for locking the back at the limits of its movements.

5. A chair comprising two pairs of legs hinged together, a back hinged to one pair of 55 legs, a seat hinged to the other pair of legs, the corresponding leg and back members having a pin-and-slot connection for limiting the swinging movement of the back with respect to the legs, and means carried by the seat for 60 locking the back in a forwardly-tilted position with respect to its legs.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 23d day of February, 1904. 65

CASPAR METTLER.

Witnesses:

FREDK. HAYNES,
 C. S. SUNDGREN.