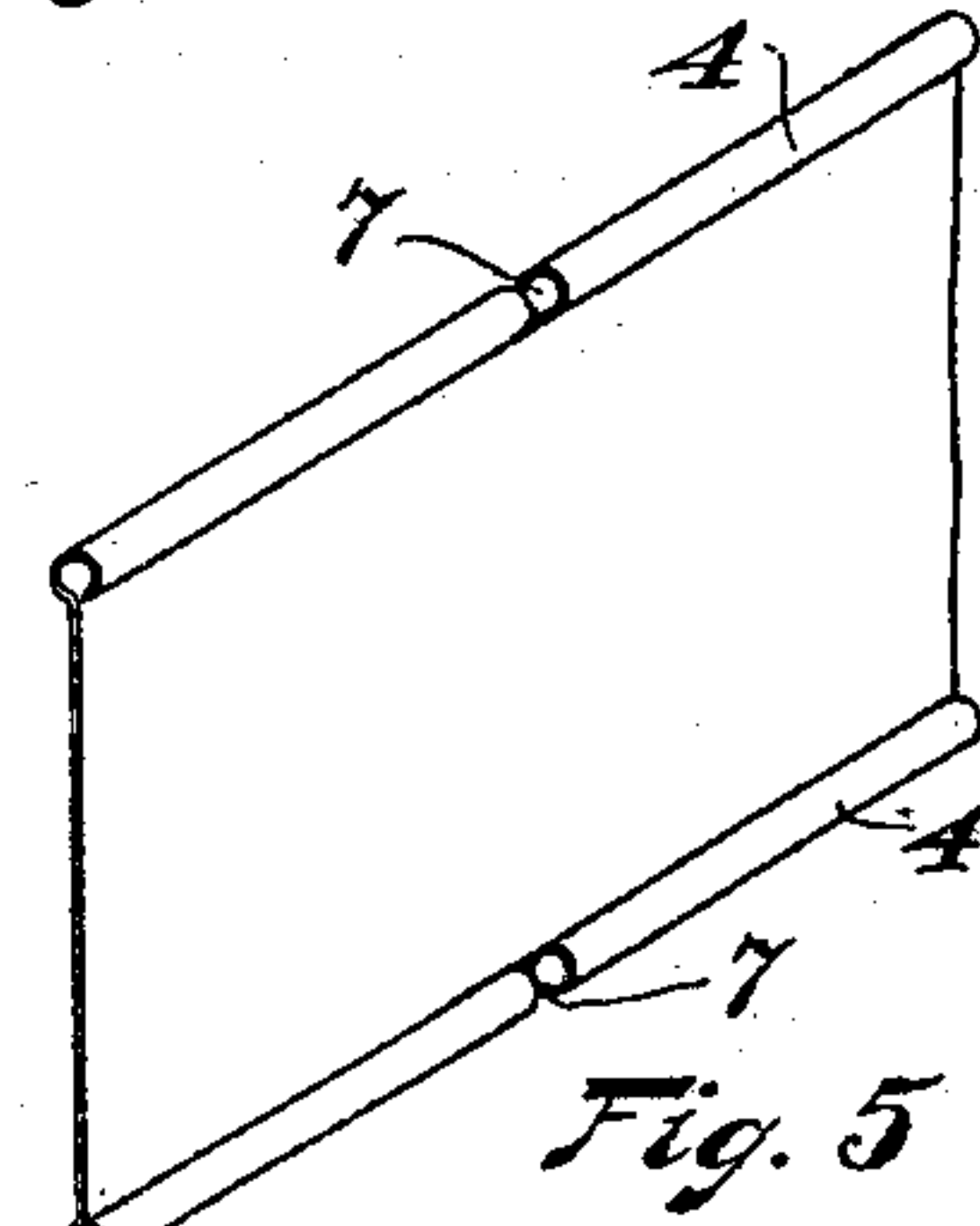
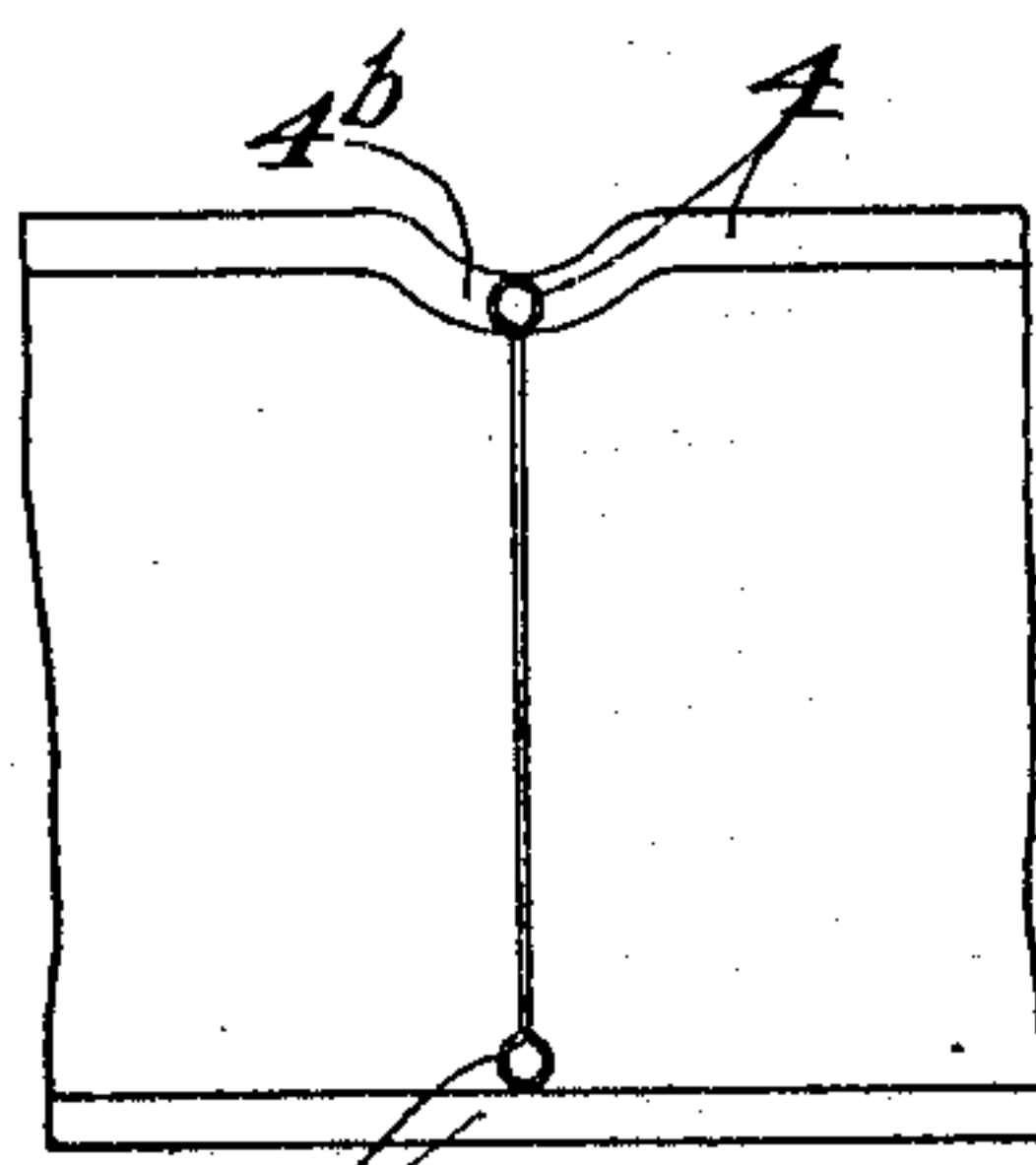
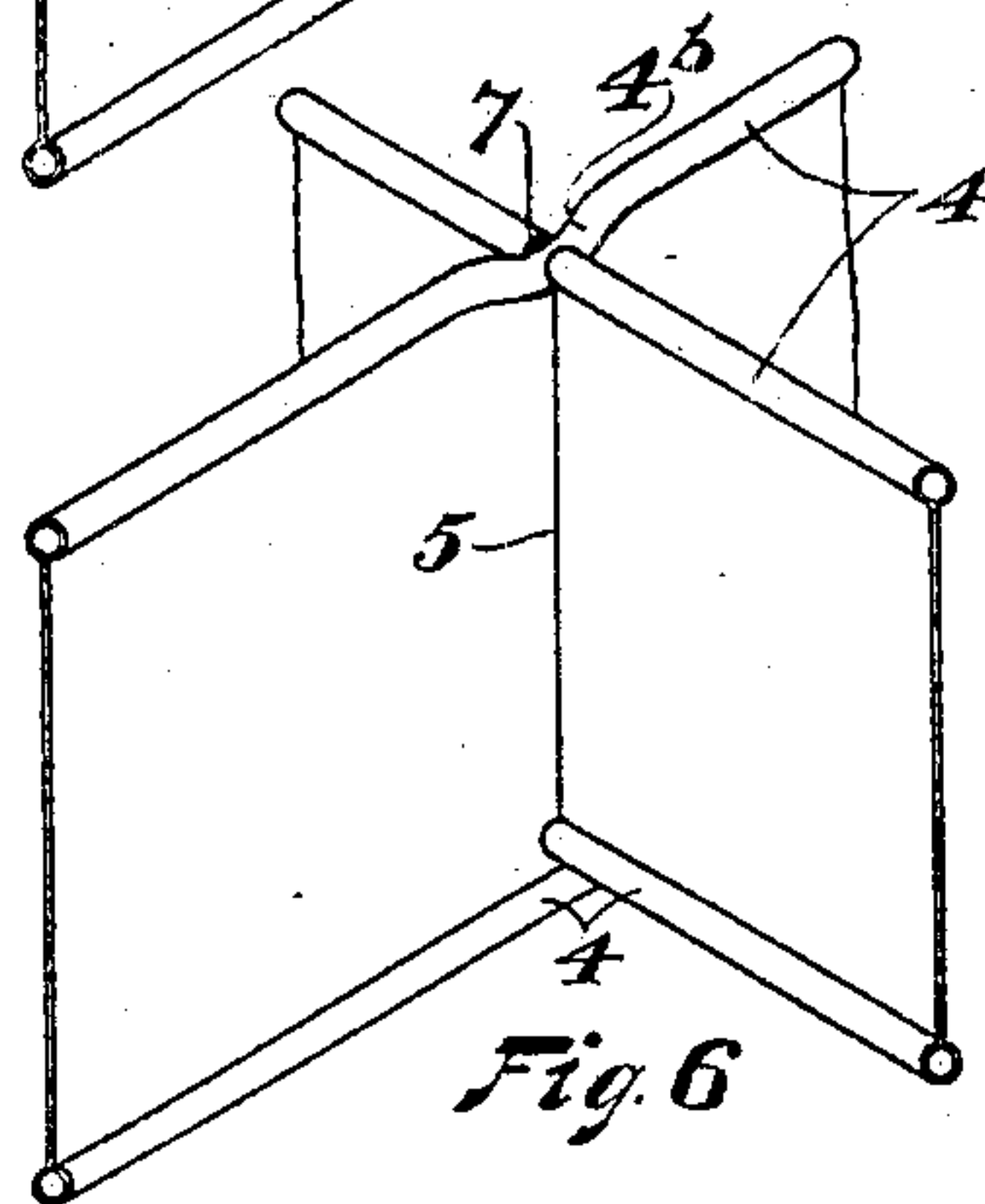
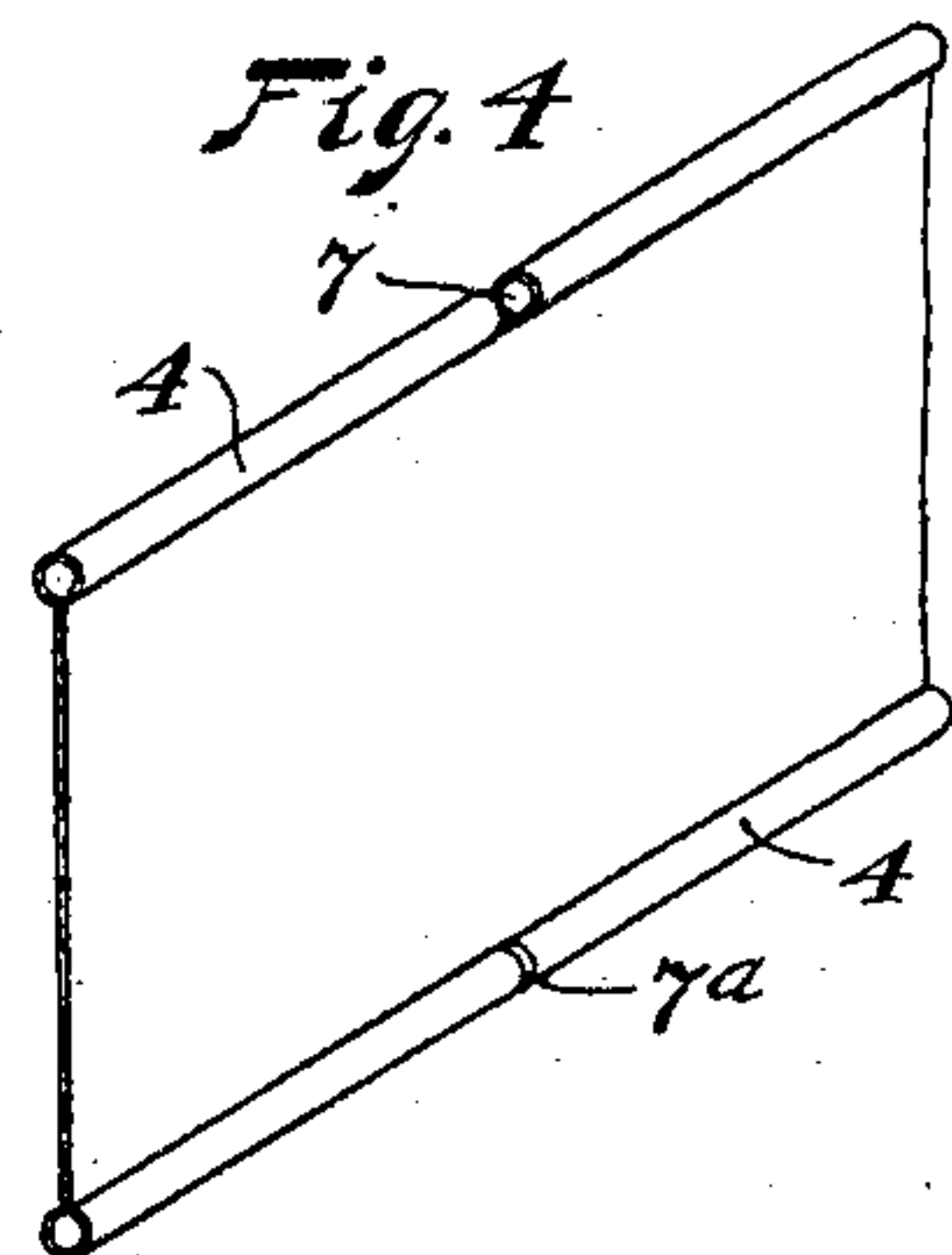
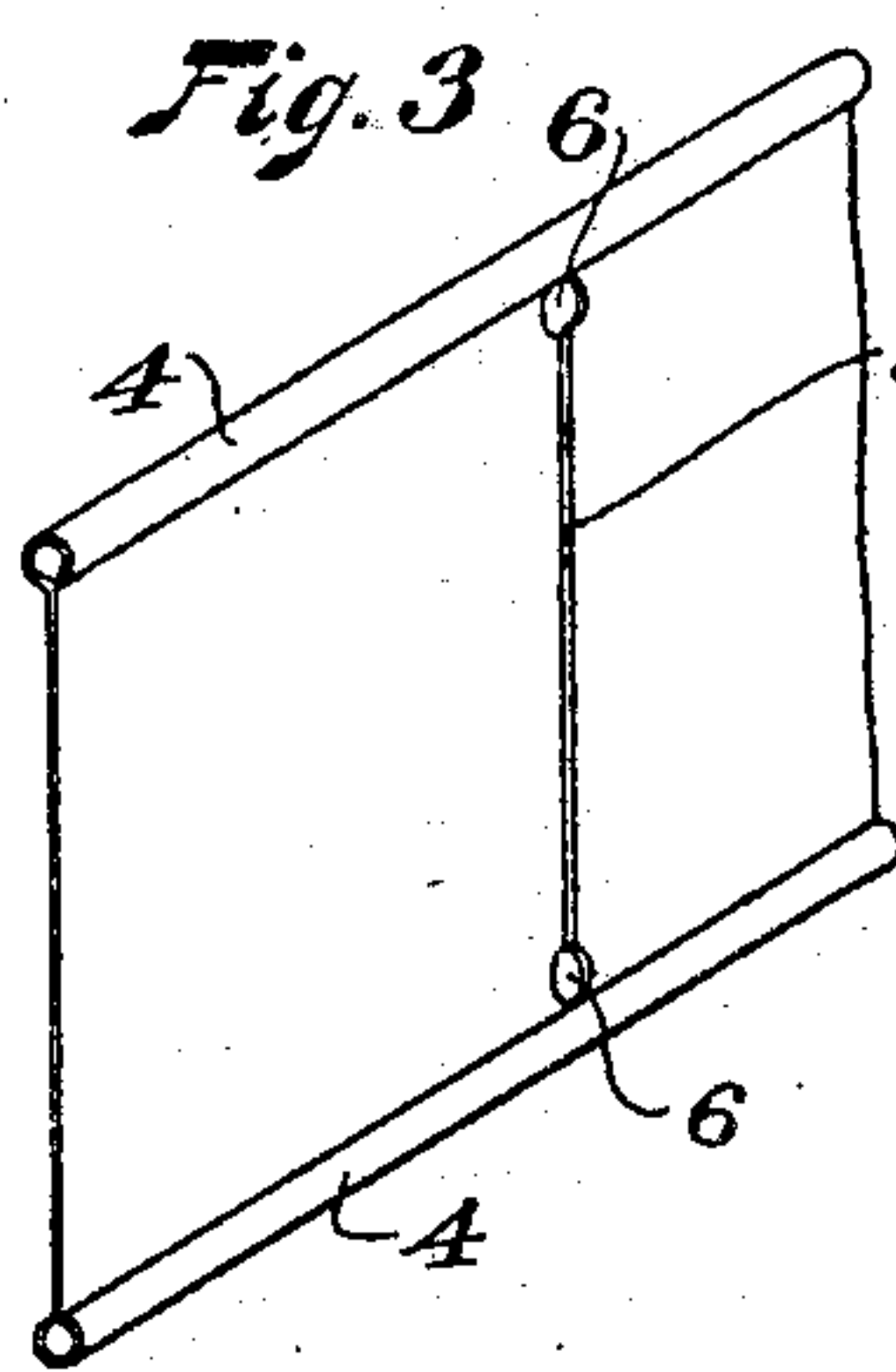
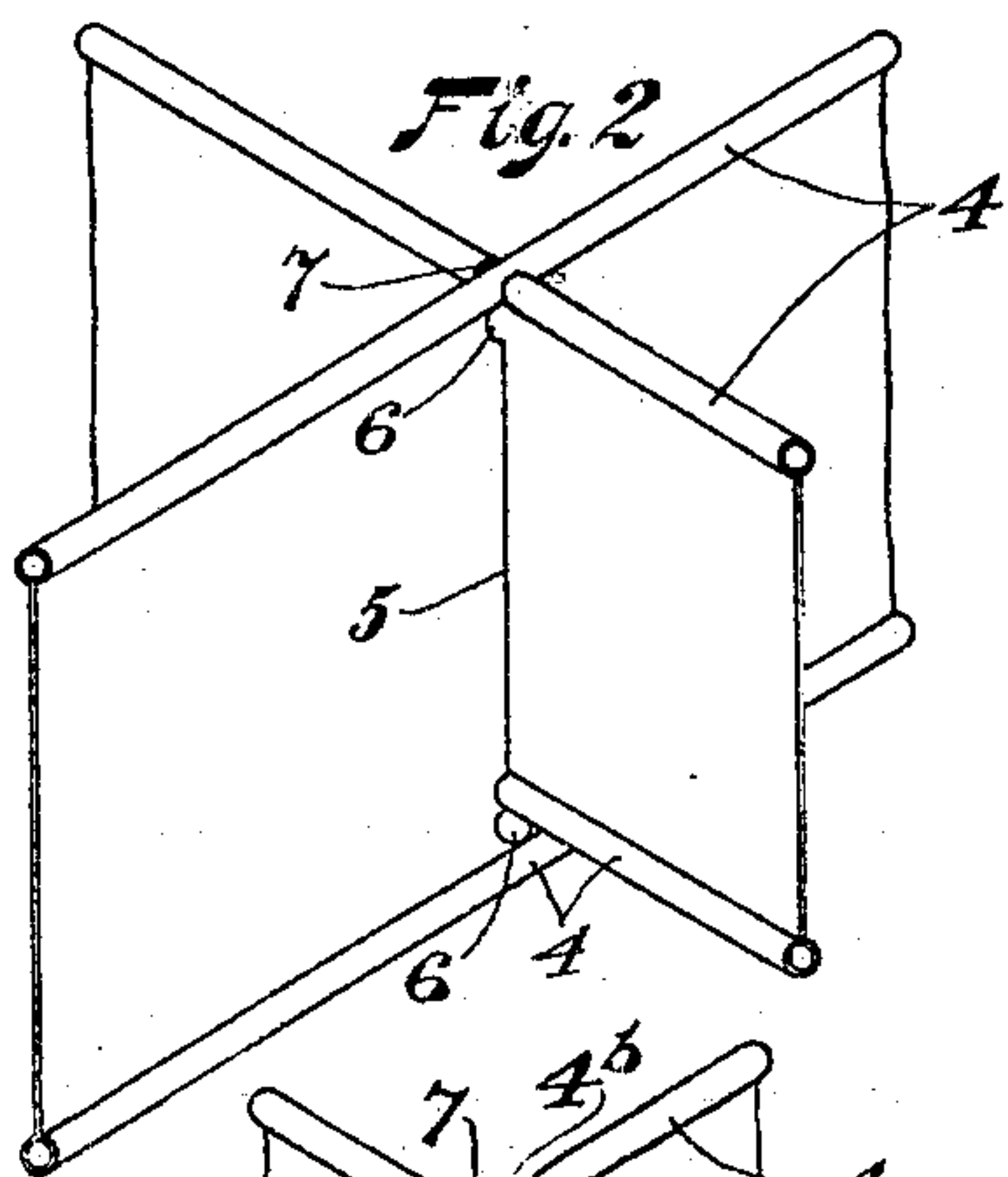
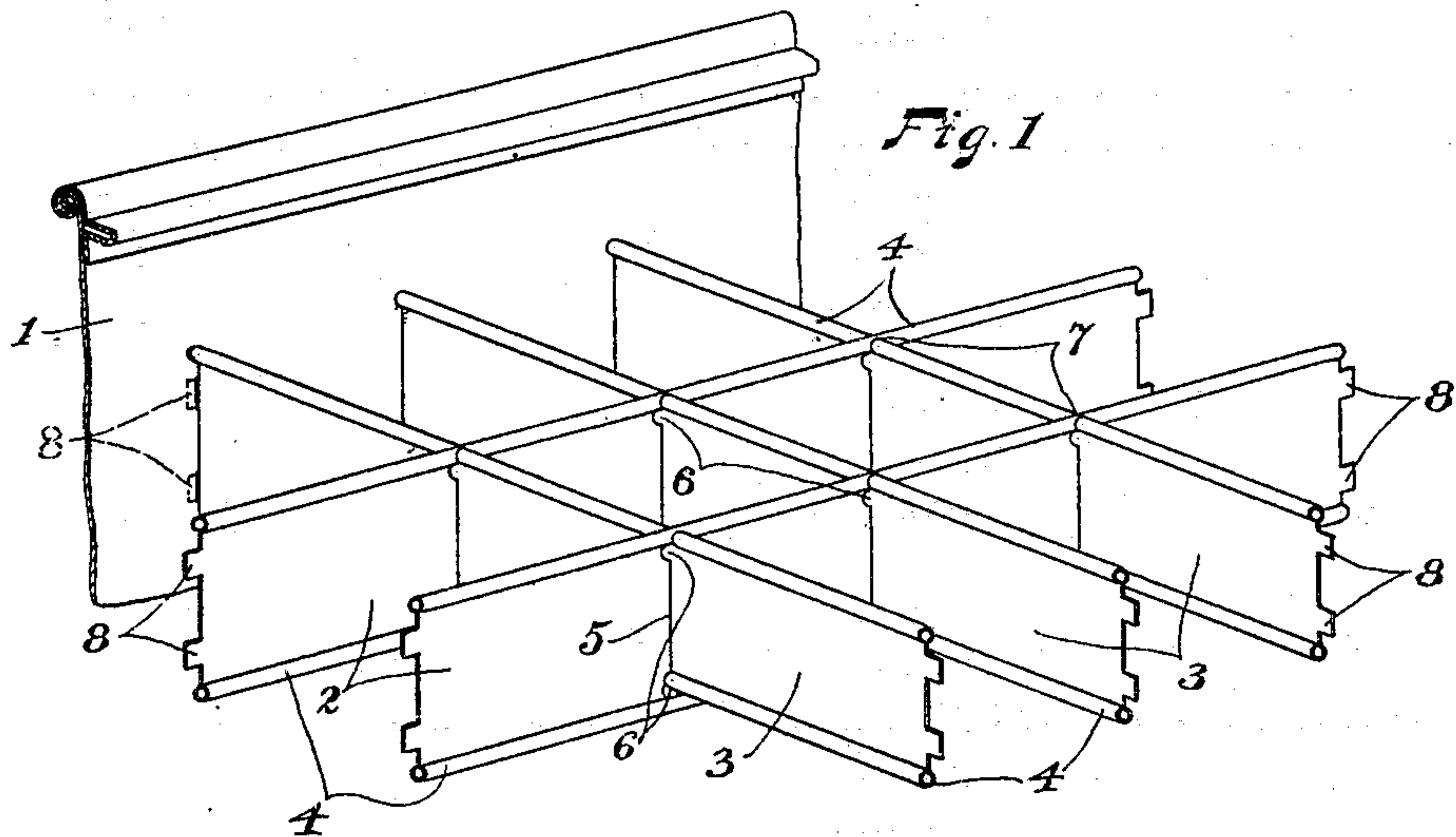


A. T. KRUSE.
PACKING CASE.

APPLICATION FILED AUG. 1, 1908.

928,604.

Patented July 27, 1909.



Witnesses:
F. C. Valentini
Melba Linnhart.

Inventor:
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his attorney.

UNITED STATES PATENT OFFICE.

ALFRED T. KRUSE, OF DEFIANCE, OHIO, ASSIGNOR TO THE AMERICAN STEEL PACKAGE COMPANY, OF DEFIANCE, OHIO, A CORPORATION OF OHIO.

PACKING-CASE.

No. 929,604.

Specification of Letters Patent.

Patented July 27, 1909.

Original application filed May 27, 1907, Serial No. 375,777. Divided and this application filed August 1, 1908. Serial No. 446,379.

To all whom it may concern:

Be it known that I, ALFRED T. KRUSE, a citizen of the United States, residing at Defiance, in the county of Defiance and State of Ohio, have invented certain new and useful Improvements in Packing-Cases, of which the following is a specification.

My invention relates to improvements in packing-cases designed, primarily, for the transportation and storage of liquids contained in bottles or similar vessels.

The present invention relates particularly to sheet-metal partition or division plates for forming bottle-cells for receiving and containing bottles whereby the latter are prevented from coming into direct contact with each other, and said division plates are admirably adapted for use in sheet-metal packing-cases, such,—for example,—as that class or type shown, described and claimed in my application for Letters Patent for "packing-cases," filed May 27, 1907, Serial No. 375,777, of which this application is a divisional part.

The paramount object of the invention is to produce a generally-improved sheet-metal bottle-cell structure, for use in sheet-metal packing-cases, in which the several partition-plates are adapted to be readily assembled and positioned within the walls of the case, and when so positioned, will be effectually maintained in proper relative position to form the bottle-cells.

With these ends in view, the invention consists in the novel construction, arrangement and combination of parts, hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

Referring to the drawings, forming a part of this specification, Figure 1, is a perspective view of the improved partition-plates in their assembled position for forming the bottle-cells. Fig. 2, a perspective view of the intersecting portions of a main and cross partition-plate. Fig. 3, a perspective view of the intersected portion of a main partition-plate. Fig. 4, a perspective view of the intersecting portion of a cross partition-plate. Fig. 5, a perspective view of a cross partition-plate showing a modified form of the intersecting portion of the same. Fig. 6, a perspective view of another modification of the intersecting portions of a

main and cross partition-plate. Fig. 7, another view of the form or modification shown in Fig. 6.

Similar numerals of reference designate like parts throughout all the figures of the drawings.

The walls 1, of the case may be of any suitable and convenient form, and the partition-plates, hereinafter described, forming the bottle-cells, are mounted within and interposed between said walls in any suitable and convenient manner.

The plurality of bottle-cells are formed in the case, in the present instance, by means of a plurality of main partition-plates 2, intersected by a plurality of auxiliary or cross partition plates 3, said plates have their edges curled over forming upper and lower beadings 4, adapted to impinge against the bodies of the bottles in the bottle-cells. The auxiliary or cross partition-plates 3, intersect the main partition-plates 2, by taking through vertical slots 5, provided with terminal beading-openings 6, adapted to receive the beadings of the intersecting cross partition-plates 3.

As a means of securing the auxiliary or cross partition-plates 3, in engagement with the main partition-plates 2, oppositely-disposed notched recesses 7, are formed in the beadings 4, of the cross partition-plates 3, of sufficient width and depth to receive the beadings of the main plates 2, so as to form a seat for the upper beadings of the main plates when the cross plates are moved upwardly, or a seat for the lower beadings when the said cross plates are moved downwardly. The cross plates, however, are, preferably, moved upwardly so that the upper beadings of the main and cross plates are substantially in the same horizontal plane, as shown most clearly in Figs. 1, and 2, of the drawings. Furthermore, if desired, narrow recesses or slots 7^a may be formed in the lower beadings 4, of the cross partition-plates 3, of only sufficient width to receive the thickness of the metal of the main plates 2, as shown most clearly in Fig. 4, of the drawings, in which case the auxiliary or cross plates 2, can only be moved upwardly or in one direction for fastening with the main plates. When the main and cross plates 2, and 3, have been properly positioned for intersecting engagement with each other, as

well as properly positioned in the case body, the ends are preferably secured to the walls 1, by means of tongues 8, passing through vertical slots and bending over the outer side of said walls, as indicated in Fig. 1, of the drawings. If desired, the notched recesses 7, or 7^a, may be dispensed with in the lower beadings 4, of the cross plates 3, and the latter locked in intersecting engagement with the main plate 2, by bending and depressing the upper beadings 4, of the main plates downward into the notched recesses 7, of the upper beadings 4, of the cross plates 3, forming a depressed portion or recess 4^b, filling the upper notched recesses 7, of the cross plate, as shown in Figs. 6, and 7, of the drawings.

From the foregoing description, taken in connection with the accompanying drawings, the construction and advantages of my invention will be readily understood.

Having thus described my invention, without having attempted to set forth the forms in which it may be made, or all the modes of its use, I declare that what I claim and desire to secure by Letters Patent, is,—

1. In a packing-case, a main partition-plate intersected by an auxiliary or cross partition-plate forming bottle-cells, said plates having their edges curled over forming upper and lower beadings, said main plate being provided with a vertical slot receiving said cross plate and provided with terminal beading-openings receiving the beadings of said cross plate, and said cross plate being provided with a notched recess in one of its beadings to receive the beading of the main plate.

2. In a packing-case, a main partition-plate provided with upper and lower beadings and a vertical slot having terminal beading-openings adjacent to said beadings, and a cross partition-plate intersecting said main plate by passing through said slot and provided with upper and lower beadings passing through said beading-openings, said beadings of the cross-plate being provided

with notched recesses, one of which is adapted to receive and form a seat for the adjacent beading of the main plate.

3. In a packing-case, a plurality of main partition-plates provided with upper and lower beadings and vertical slots having terminal beading-openings, and a plurality of cross partition-plates intersecting said main partition-plates through said vertical slots, said cross plates being provided with upper and lower beadings with notched recesses to receive the adjacent beadings of the intersected main plates.

4. In a packing-case, a plurality of main partition-plates provided with beaded edges and vertical slots having terminal beading-openings, and a plurality of cross partition-plates intersecting said main plates through said vertical slots, said cross plates being provided with beaded edges and oppositely-disposed notched recesses in said beaded edges, said notched recesses being adapted to receive and form a seat for the adjacent beaded edges of said main partition-plates.

5. In a packing-case, a plurality of main partition-plates intersected by a plurality of cross partition-plates forming bottle-cells, said plates having beaded upper and lower edges, said main plates being provided with vertical slots receiving said cross plates and terminal beading-openings receiving the beaded edges of said cross plates, and said cross plates being provided with oppositely-disposed notched recesses in its beaded edges, said notched recesses on one side being of sufficient width and depth to receive and form a seat for the adjacent beaded edges of the main plates and said notched recesses on the opposite side being of only sufficient width to receive the thickness of the metal of the main plates.

In testimony whereof I have affixed my signature, in presence of two witnesses.

ALFRED T. KRUSE.

Witnesses:

CURTIS M. WILLOCK,
E. J. ALLEN.