

No. 749,946.

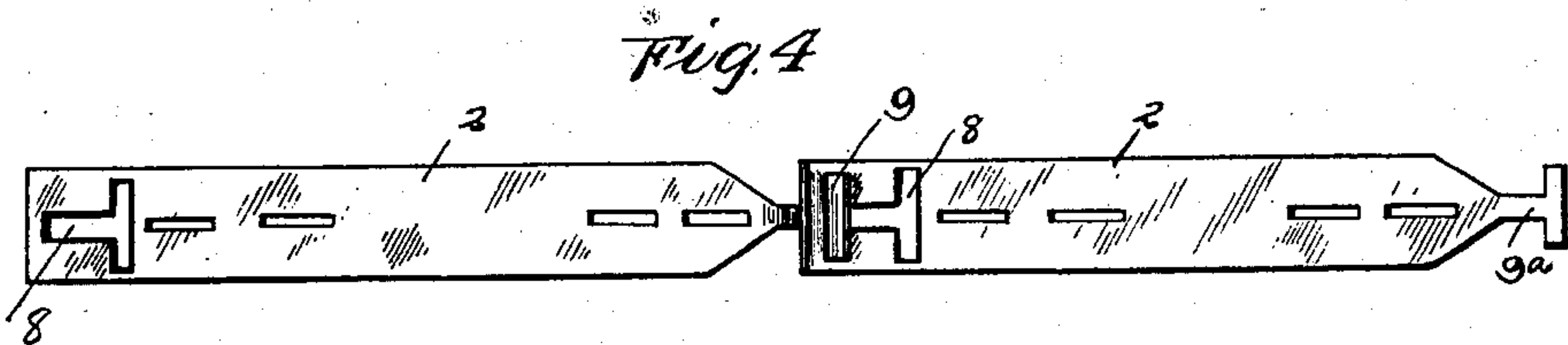
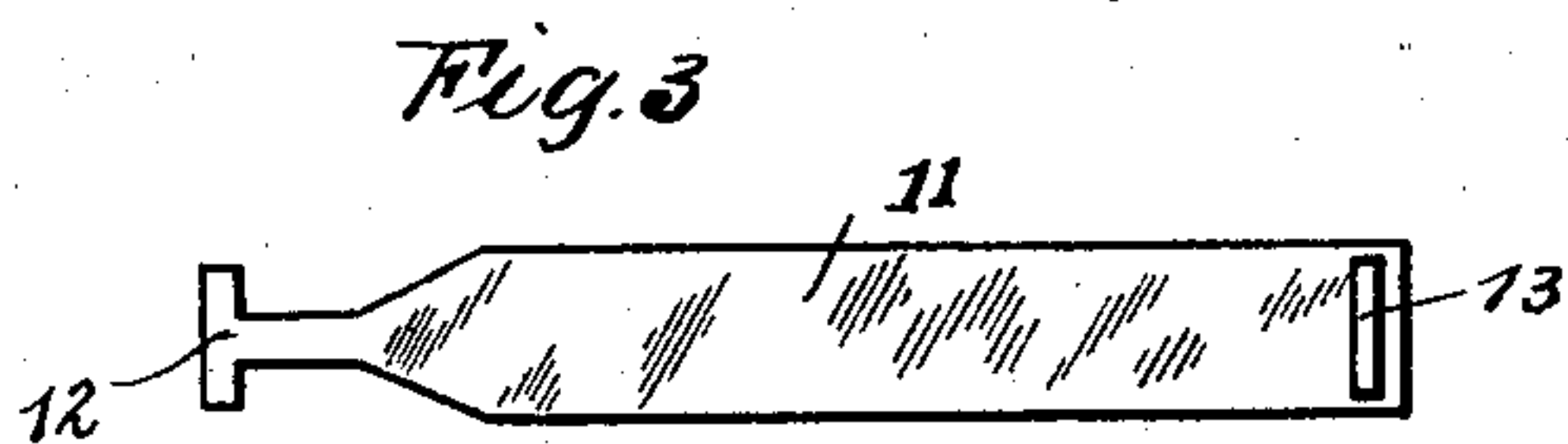
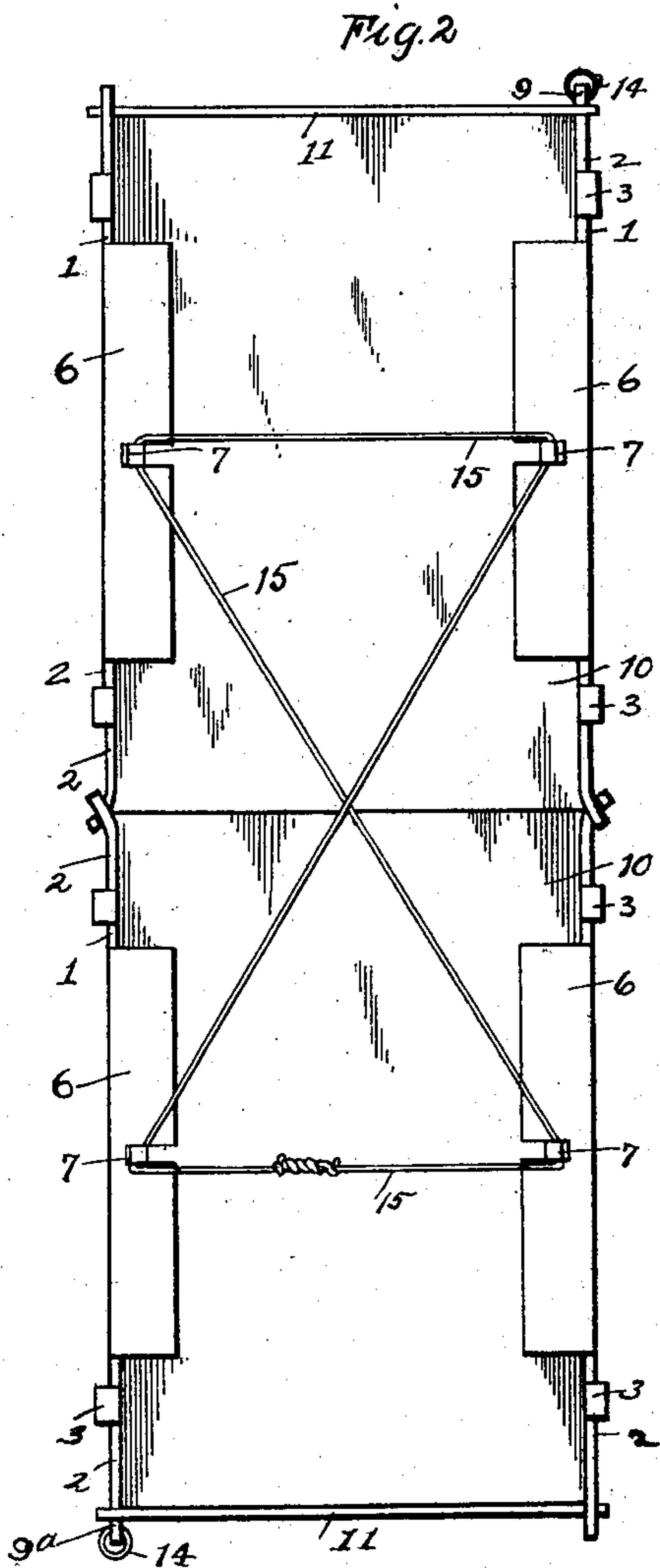
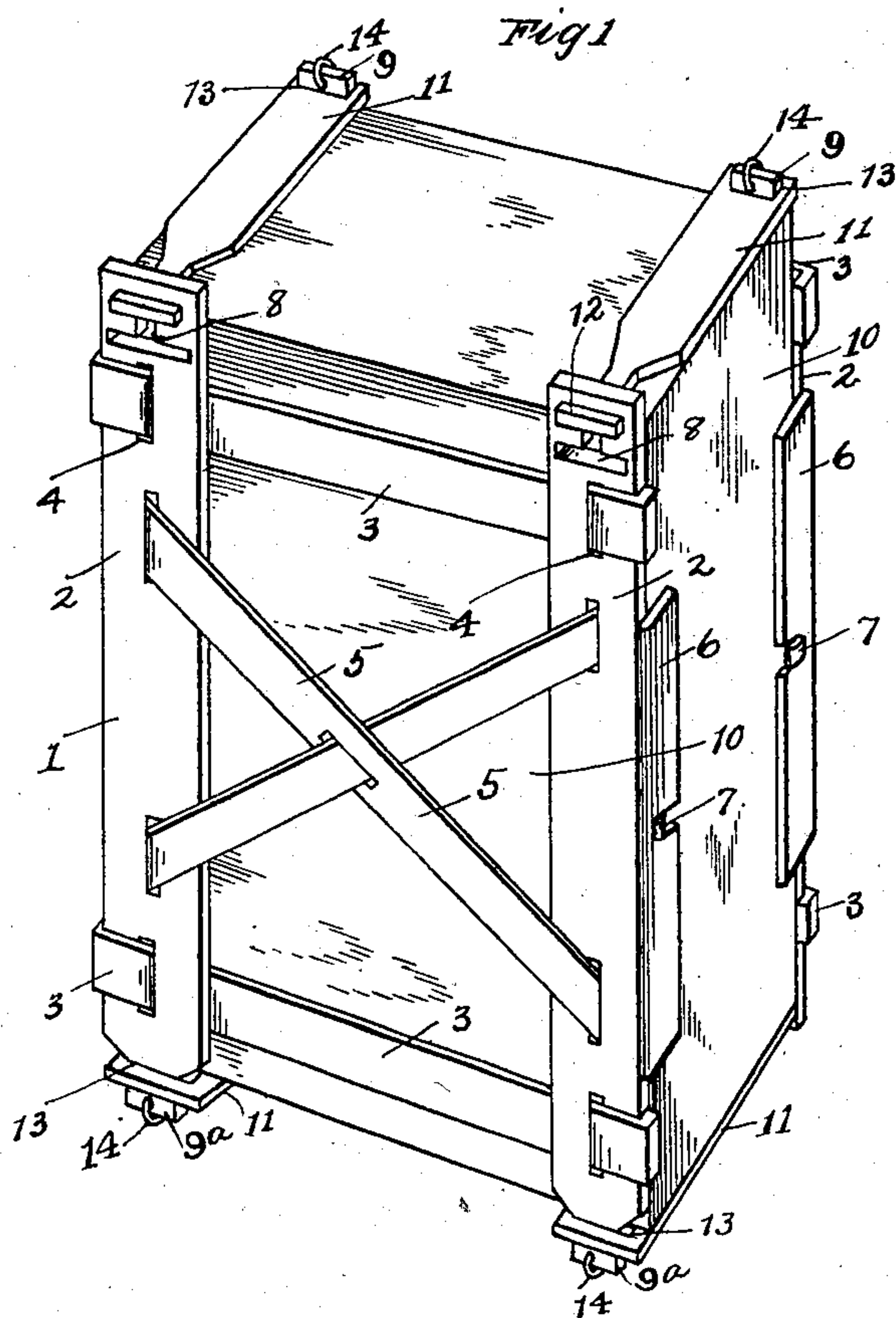
PATENTED JAN. 19, 1904.

J. C. NAGLE & B. PROUTY.

CRATE.

APPLICATION FILED SEPT. 26, 1902.

NO MODEL.



WITNESSES:

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CRATE.

SPECIFICATION forming part of Letters Patent No. 749,946, dated January 19, 1904.

Application filed September 26, 1902. Serial No. 124,907. (No model.)

To all whom it may concern:

Be it known that we, JAMES C. NAGLE and BURT PROUTY, citizens of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Crates, of which the following is a specification.

Our invention relates to the improvement of crates for boxes, cans, or other packages; and the objects of our invention are to provide an improved crate construction of this class adapted for inclosing for shipping one or more boxes, cans, or packages, to so construct our improved crate as to permit of its being extended to various heights to permit of its embracing two or more boxes or cases, and to produce other improvements the details of construction 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 perspective view of a box inclosed within our improved crate. Fig. 2 is an end view of two boxes united by our improved crate construction. Fig. 3 is a view in elevation of one of the cross-bars which we employ in the manner hereinafter described; and Fig. 4 is a similar view of two of the vertical bars, showing the same united for the purpose of extending the crate vertically.

Similar numerals refer to similar parts throughout the several views.

In describing our invention we will first disclose the construction which we employ for creating a single box, and in this operation we employ two oppositely-arranged crate sections or frames 1. Each of these crate-sections comprises parallel vertical plates or standards 2, which are united in their upper and lower portions by transverse bars 3, which in the drawings are shown as having their end portions inserted through slotted openings 4, formed lengthwise of the standards 2, the ends of said cross-bars being bent to engage the outer edges of said standards. The standards are further united by two crossed braces or bars 5, suitably connected at their ends with said standards. In the construction of each of the standards the same is provided on its outer edge portion with a side wing or flange

6, which is of less height than the height of said standard, and each of said wings has formed, preferably in the center of its length, a projecting or tongue portion 7. Each of the standards 2 of one of said crate-sections has formed in its upper end portion above the bar 3 an inverted-T-shaped opening 8, while the upper ends of the opposite standards 2 of the opposing crate-section terminate in T-shaped heads, as indicated at 9. The lower ends of those sections 2 which are provided in their upper ends with the T-shaped openings 8 are provided with T terminations 9^a, corresponding with the upper terminations 9 of the opposing standards. Those standard-sections which are provided with the T-heads 9 at their upper ends have formed in their lower ends T-shaped openings corresponding with the openings 8.

In inclosing a single box such as is indicated at 10 in Fig. 1 of the drawings the crate-sections above described are arranged against opposite sides of said box, and the oppositely-located upwardly and downwardly projecting ends of the standards 2 are connected by transverse bars, such as are indicated at 11. Each of these bars has one of its end terminations in the form of a T, as indicated at 12, and its remaining end provided with a transverse slot 13, said slot being adapted to receive the T-head 9 of one of the standards and the T-head 12 at the opposite end of said bar being adapted to engage the T-opening 8 in the opposing standard, as shown in Fig. 1. In order to prevent the slotted end of the bar 11 from slipping off the T-head 9 or 9^a, the latter may have formed therethrough an opening adapted to receive a locking-wire, such as is indicated at 14.

In extending the crate above described so as to embrace one or more additional boxes or packages arranged one above the other, such as those shown in Fig. 2, the upper bars 11 are omitted from the lower box, and upper side crate-sections 1, corresponding with those heretofore described, are connected with said lower sections as follows: Those standards 2 of the upper sections which are provided on their lower ends with the T-shaped terminations are inserted in the T-shaped

- openings 8 and then bent to a vertical position, as shown, while those lower standards which have the T-shaped upper terminations 9 are made to engage in a similar manner the T-shaped slotted openings in the lower ends of the corresponding upper standards. This being accomplished, the bars 11 are connected in the manner heretofore described with the ends of the upper standards.
- When two or more boxes are crated in the manner above described, the crates may be further connected with each other through the medium of a cord or wire, such as is indicated at 15, said cord or wire being made to engage the tongue projections 7 of the flanges 6 of the upper crate-section, from which the cord may run downward and into engagement with the corresponding tongues of the lower crate-section.
- In the construction of our improved crate the various standards, bars, and other parts thereof are preferably formed of a suitable grade of sheet metal, thus facilitating the bending of the ends of the parts where a slight bending is necessary to effect an engagement thereof.
- From the construction and operation de-

scribed it will be seen that a simple and effective crate is provided which may be readily applied to boxes, cans, or other packages and which will operate to protect the same against injury while being transported from one place to another.

Having now fully described our invention, what we claim, and desire to secure by Letters Patent, is—

In a crate, the combination with the crate-frame sections 1 comprising connected standards, the upper and lower ends of the latter being formed respectively with slotted openings and T-shaped extensions, said standards having side flanges 6, of upper and lower cross-bars 11, one end of each of said cross-bars having an opening adapted to receive an end of one of said side frame standards and the remaining end having a head adapted to engage the slotted opening in the opposite standard, substantially as specified.

JAMES C. NAGLE.
BURT PROUTY.

In presence of—

C. C. SHEPHERD,
A. L. PHELPS.