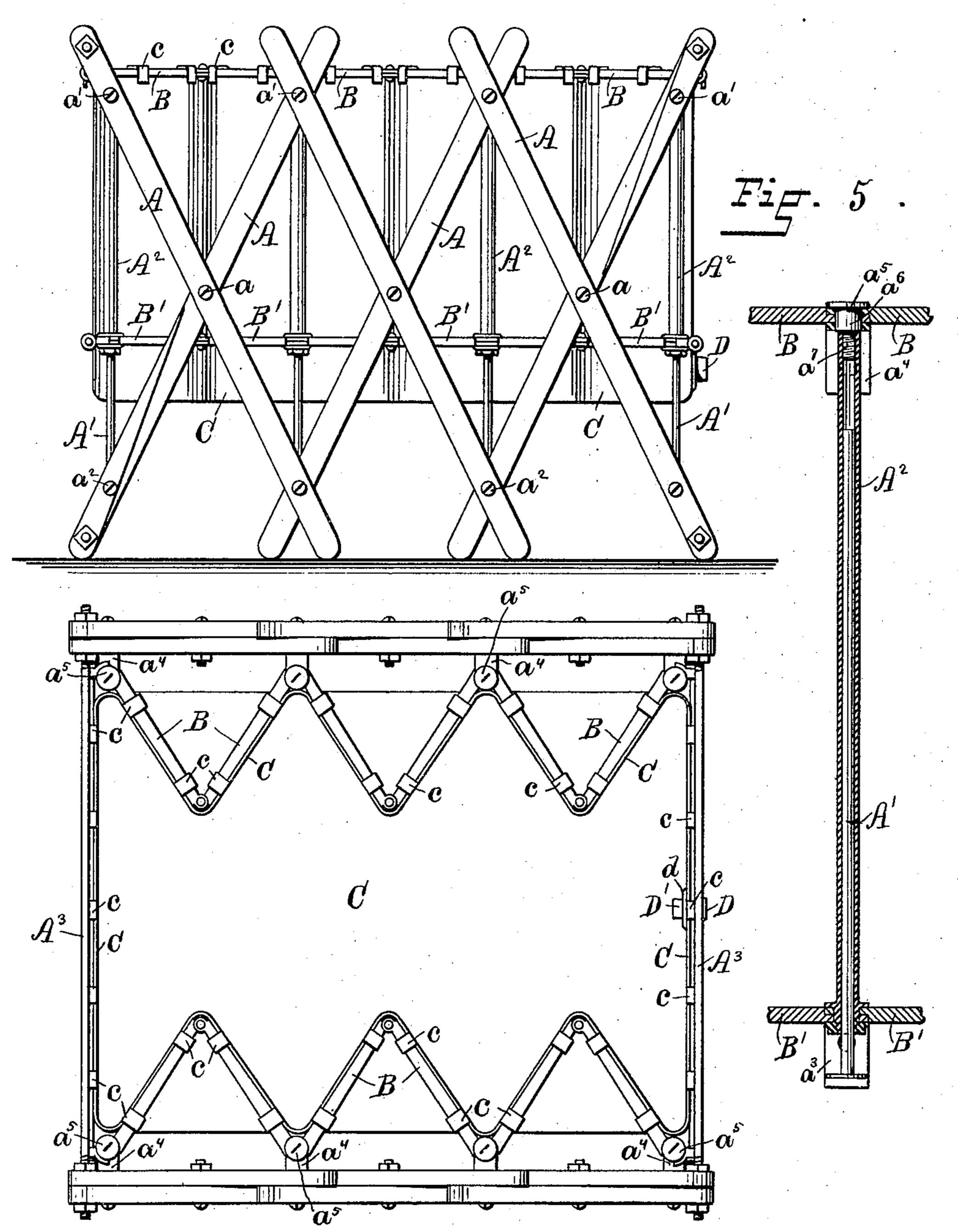
C. A. HAYWARD.

PORTABLE BATH TUB.

No. 321,217.

Patented June 30, 1885.

Fig. 1



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Fig. 3

INVENTUE:

G. H. Leuther for Jus. 2. Condron.

Clarence A. Hayward Ty Joseph Allerther.

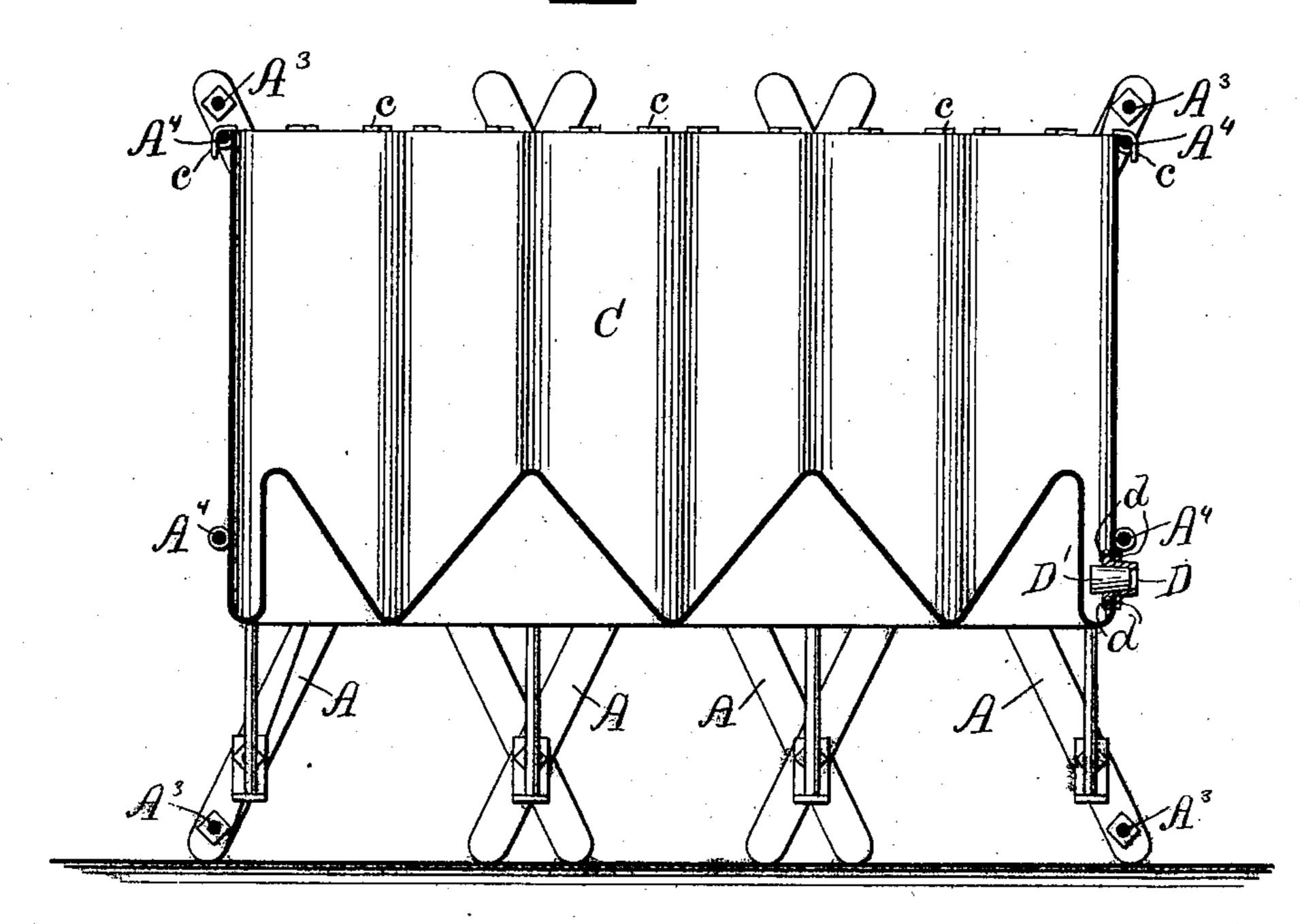
C. A. HAYWARD.

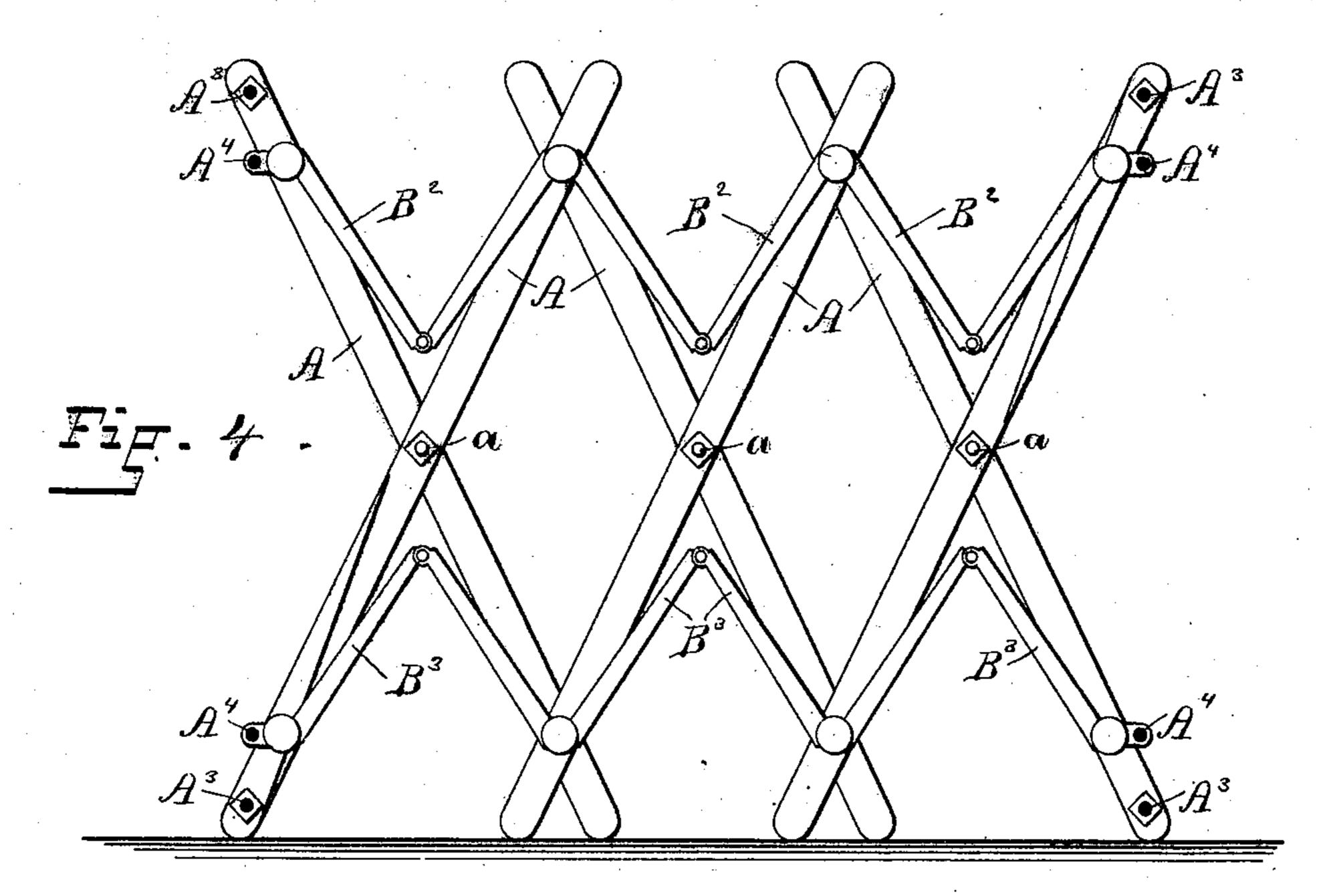
PORTABLE BATH TUB.

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Fig. 2.





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United States Patent Office.

CLARENCE A. HAYWARD, OF PROVIDENCE, RHODE ISLAND.

PORTABLE BATH-TUB.

SPECIFICATION forming part of Letters Patent No. 321,217, dated June 30, 1885.

Application filed November 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE A. HAYWARD, of the city and county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Portable Bath-Tubs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

10 My invention has for its object the production of a simple and durable frame for supporting a flexible receptacle for water, and also the production of a collapsible frame which shall, in folding, also fold up the flexible water-receptacle without necessarily detaching the receptacle from its supporting-frame.

To the above purposes my invention consists in the provision of a peculiar and novel supporting frame for a collapsible tub, and in the peculiar and novel construction of said tub, whereby it is adapted to fold up the flexible water-receptacle, all as hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved bath-tub. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a plan view of the same. Fig. 4 is a side elevation of a modified form of the supporting-frame. Fig. 5 is a longitudinal section of one of the extensible stiffening-rods for the frame.

orresponding upper and lower pivotal joints

of each section of the frame are connected by an extensible rod, (shown in detail in Fig. 5,)

which is composed of a solid rod, A', working within a tubular rod, A². The rod A' is secured to the frame by an L-shaped bracket, while the rod A² is secured upon the pivot a², while the rod A² is secured upon the frame by

a similar, but inverted, bracket, a^4 , which is loosely secured upon the pivot a'. That end of the rod A' which is secured to the bracket a^3 is attached to the lower member of the bracket 55 by riveting, or in any other suitable manner, while that end of the rod A² which is secured to the bracket a^4 is held by a screw, a^5 , the shank of which is formed with a cylindrical enlarged portion, a^6 , passing through the 60 bracket, and a threaded portion, a^7 , screwing into the end of the bar.

B designates a series of arms, each of which is pivoted at one end to the upper end of one of the tubular rods A^2 , and at the opposite end said arm is jointed pivotally to the corresponding end of a similar arm. Upon the lower end of each rod A^2 are also pivoted two bars, B', each of which is jointed pivotally to the corresponding end of a similar bar. The frames 70 on each side are connected together by four bars, A^3 A^4 , the former of which extend between the upper and lower extremities of the end bars A, while the latter extend between the pivotal connections of the end arms B B' 75 with the rods A^2 .

Cdesignates the flexible water-holder, which may be of rubber or other flexible material, and of such shape as to fit properly within the frame. This receptacle is secured to the frame 80 by metal strips c, which are attached to the upper edges of the receptacle and lap over upon the upper bars, A⁴, and upon the arms B. The receptacle is also provided with an outlet, D, which is held by its flanges d, and is closed 85 by a stopple, D'.

In Fig. 4 I have shown an arrangement in which the arms B² B³, corresponding with the arms B B', move vertically instead of horizontally when the frame is extended or collapsed. 90 In this construction the rods A' A² are dispensed with, and the arms are secured to the frame and to each other by horizontal instead of vertical pivots, while the receptacle C is attached as before.

In lieu of the strips c strings or flexible bands may be used to secure the receptacle to the supporting-frame.

The receptacle may either remain attached to the frame and be extended and folded up 100 with it, or the frame may be first extended and the receptacle then attached to it and removed

before the frame is closed up. The hinged outer ends of the corresponding pairs of arms B B' may be connected by a vertical rod, so as to further stiffen the frame and insure the proper folding of the flexible receptacle.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. An improved portable bath-tub consisting of a supporting-frame composed of a series of bars connected together as a collapsible frame, and a flexible receptacle attached to said frame and arranged to be folded thereby, substantially as set forth.

2. The combination, with the bars A, united together as described, of the hinged arms, the connecting-bars A³ A⁴, and the detachable water-receptacle, substantially as specified.

3. The combination, with the bars A, united together as described, of the extensible rods A' A², the hinged arms B B', the connecting-20 bars A³ A⁴, and the flexible water-receptacle, as set forth.

4. The combination, with the frame composed of the bars A, united as described, the extensible rods A' A², and the arms B B', of 25 the flexible water-receptacle C, and the strips c, for securing said receptacle to the frame, as specified.

CLARENCE A. HAYWARD.

Witnesses:

J. A. MILLER, Jr., M. F. BLIGH.