

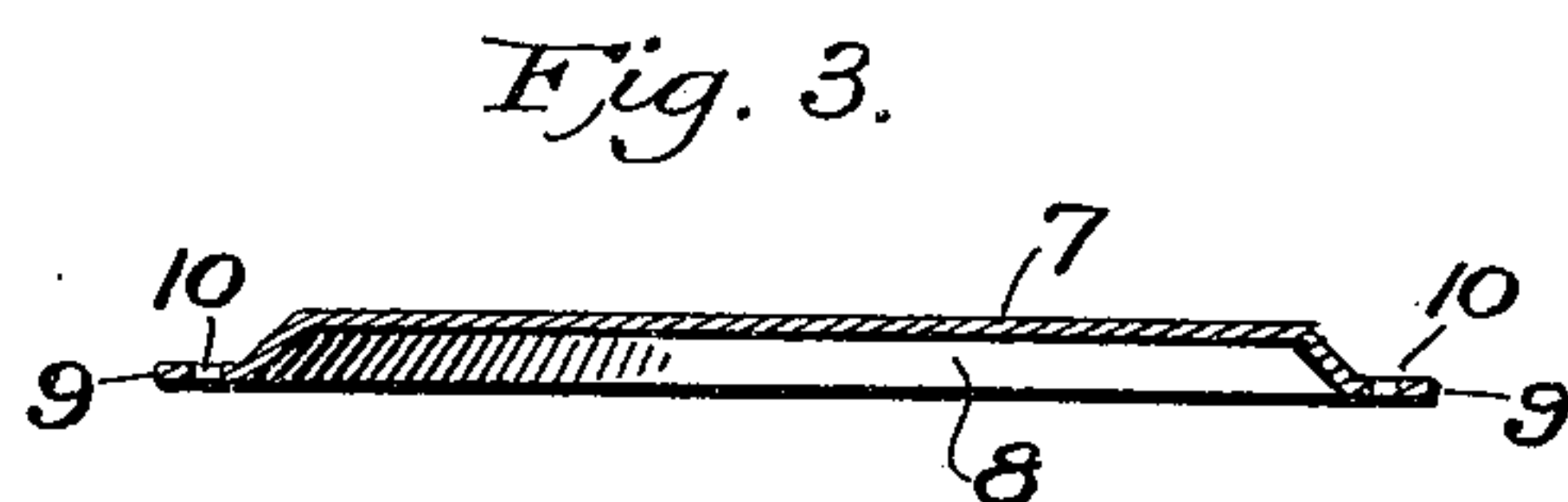
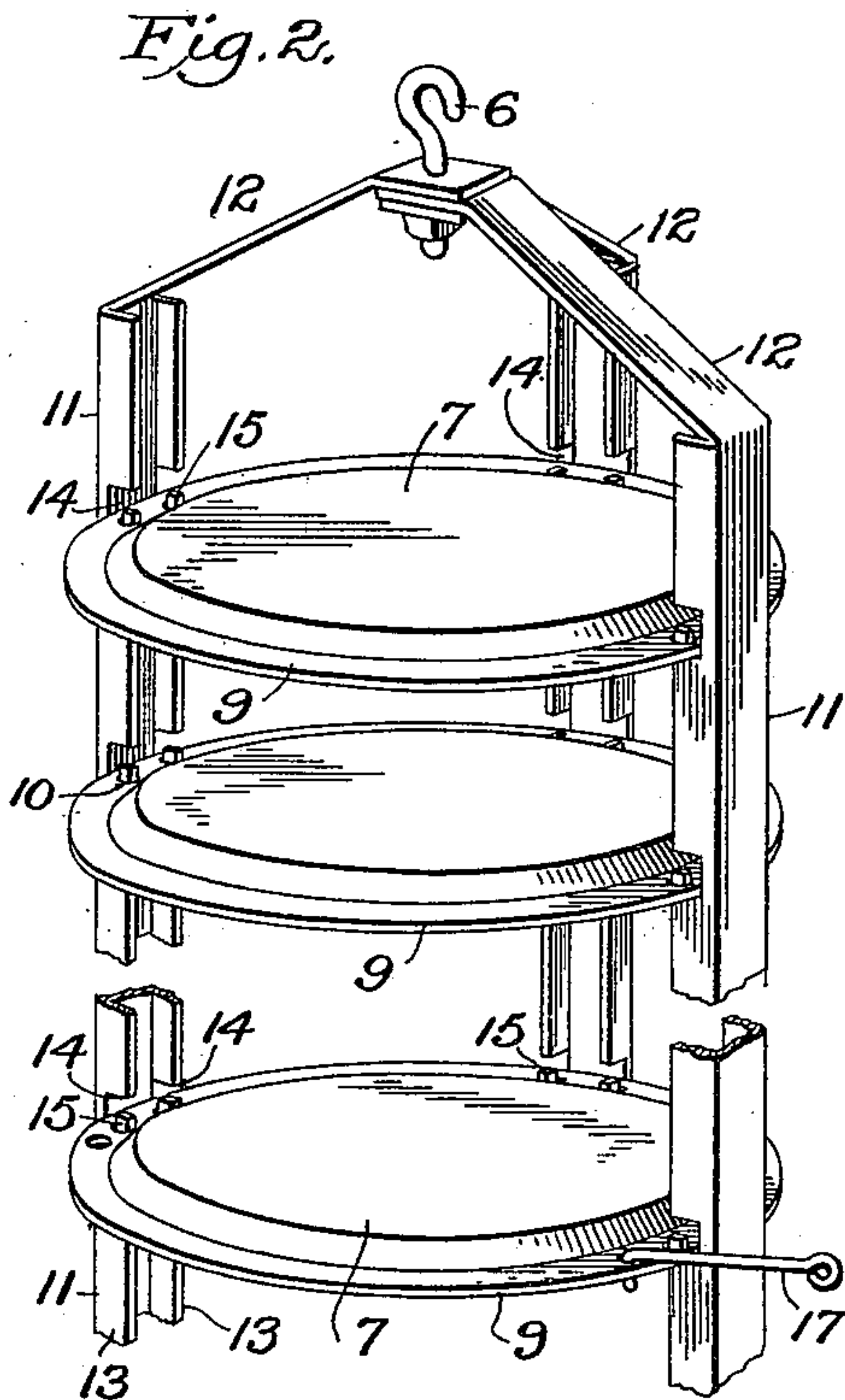
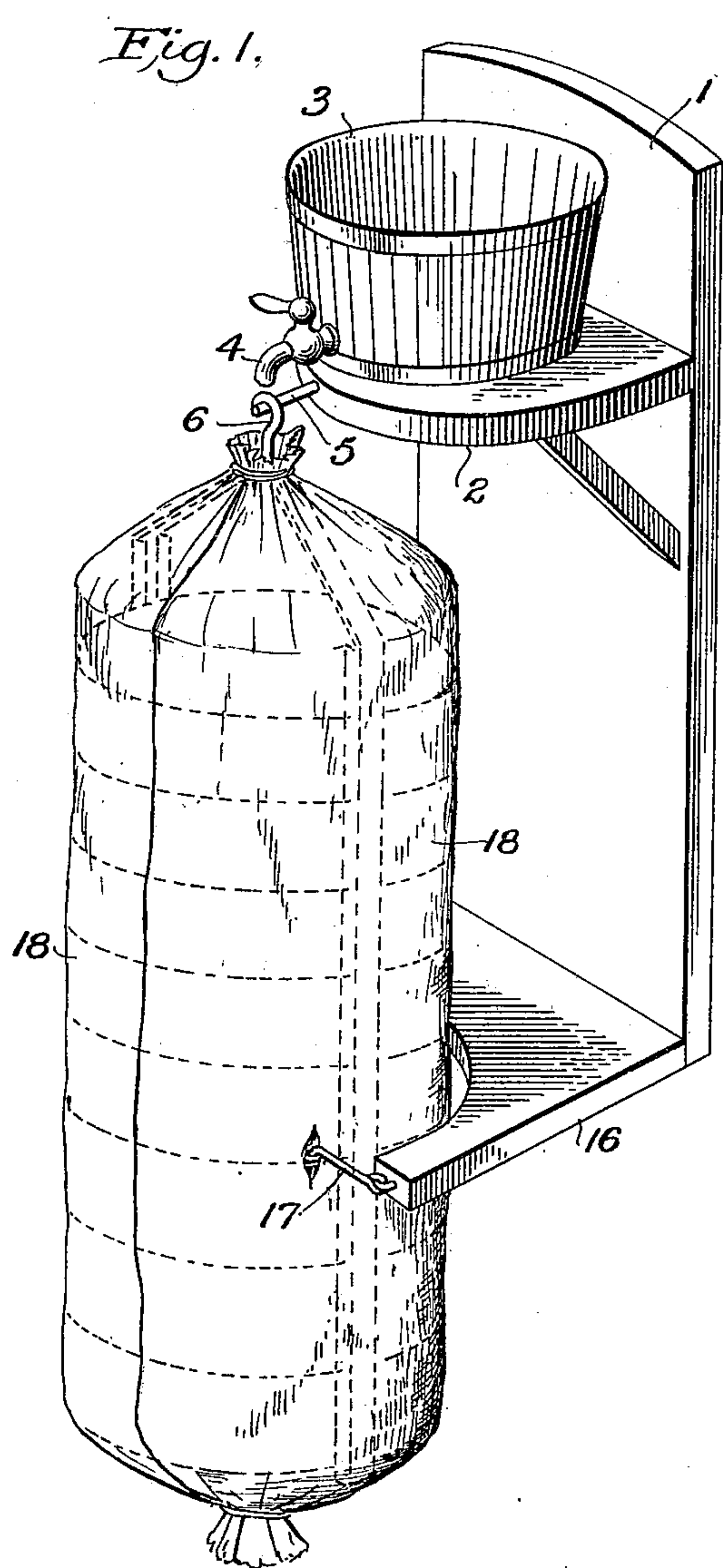
No. 625,982.

Patented May 30, 1899.

W. A. NASH.
MILK COOLER.

(Application filed July 8, 1898.)

(No Model.)



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM ASHLEY NASH, OF TAYLOR, TEXAS.

MILK-COOLER.

SPECIFICATION forming part of Letters Patent No. 625,982, dated May 30, 1899.

Application filed July 8, 1898. Serial No. 685,412. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM ASHLEY NASH, a citizen of the United States, residing at Taylor, in the county of Williamson and State of Texas; have invented certain new and useful Improvements in Milk-Coolers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same.

My present invention has reference to improvements in devices for cooling or reducing the temperature of liquids or articles of food and the like, and more particularly to milk-coolers, and has for its object to so construct
15 the same that a continuous evaporation of water is caused to take place upon the surface surrounding the articles to be cooled, thus reducing the temperature in the inclosed
20 receptacle.

With this and other objects in view my invention consists in the construction, arrangement, and combination of parts and in the various details thereof, substantially as will
25 be hereinafter fully described and claimed.

In the annexed drawings, illustrating my invention, Figure 1 is a perspective view of my improved milk-cooler. Fig. 2 is an enlarged partial detail view of the same with the cover-
30 ing removed to show the interior construction. Fig. 3 is a transverse sectional view of one of the shelves.

Like numerals of reference designate like parts in all the figures of the drawings.

35 My improved cooling apparatus consists of a series of shelves 7, that are supported by means of uprights or vertical strips or bars 11, of which there may be any suitable number, as, for instance, three of the uprights 11
40 and nine or ten of the shelves 7.

The uprights 11 are preferably formed of galvanized iron or other metal and are provided throughout their vertical length with right-angled flanges 13 13, which cause the
45 uprights to present the shape of channel-bars. The upper ends of these uprights 11 are bent at an angle to form the integral unflanged inclined extensions 12, the converging inner ends of which meet and overlap and are per-
50 forated to permit the passage through them of the bolt-shank of a hook 6, which is designed to engage a pin 5 on a shelf 2, that

projects horizontally from the back piece 1, so that in this way the cooling apparatus may be suspended.

The shelf 2 carries the tank, tub, or water-receptacle 3, having a faucet 4, from which water is permitted to drip upon the covering 18 of the cooling apparatus, depending below the said receptacle, as I have explained, and
55 thus refrigerates the contents of the apparatus. The covering 18 surrounds the shelves 7 and vertical pieces 11 and is of muslin or some other suitable cloth or fabric which be-
60 comes saturated with the water, and thus 65 enables the articles within the device to become cool in consequence of the evaporation that occurs.

The shelves 7, which are adapted to support the milk, butter, eggs, and other articles
70 that are to be kept cool, are preferably of the form shown in Figs. 2 and 3, where they are shown as consisting of an inverted shallow pan-like shape, having the underneath shallow recess or concavity 8 and the peripheral
75 flange 9, provided at certain points with perforations 10. This shape for the shelves is necessary in order to give them the necessary stiffness and strength to sustain the weight of the
80 articles placed thereon. Although I prefer the form of shelf just described, yet, if found desirable, the shallow recess may be omitted and shelves employed consisting simply of
suitable circular disks.

The shelves 7 are upheld by connection with
85 the uprights 11 in the following manner: The flanges 13 of the uprights 11 are provided at certain points suitably distant from each other with angular notches 14, cut so as to leave the vertical pins 15 integral with the
90 flanges 13, over which pins the perforated flanges 9 of the shelves 7 are adapted to fit down, with the pins 15 engaging the perforations 10 and projecting through the same. Thus it will be seen that in this way the
95 shelves 7 may be quickly and firmly fixed in position, and yet the connection is of such a character that they may readily be removed from the apparatus when necessary. By clench-
100 ing the projecting ends of the pins 15 down upon the flanges or edges of the shelves the latter can be combined non-removably with the uprights 11. I find it advisable to do this with several of the shelves, so as to make the

apparatus strong and give to it an unyielding framework. I may, for instance, when there are nine shelves, bend down and clench the pins that engage the first, fifth, and ninth shelves, thus making them a permanent part of the frame of the apparatus. All the rest of the shelves, however, will be instantly removable, and thus easily and conveniently taken out and replaced in order to provide for their easy cleaning when required and also for the adjustment of the distances between the shelves to afford room for vessels or articles of different sizes.

The back piece 1 has, near or at its lower end, another bracket or brace 16, provided with hooks 17, that engage perforations in one of the shelves (see Fig. 2) to hold the system of shelves firmly in place.

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

1. In a device of the class described, the combination with the channeled uprights having upper connecting and converging ends, and having also right-angled notches cut in parallel flanges of said uprights at suitable in-

tervals to form vertical pins which lie in the same plane as the said flanges, of series of shelves perforated at the edge to engage said pins, and an envelop surrounding the apparatus, substantially as described. 30

2. In a milk-cooler of the class described, the combination with the support and a faucet-provided tank, of the suspended apparatus consisting of the channeled three-sided uprights having upper converging and connected ends, furnished at their junction with a hook, said uprights having also the right-angled notches cut at suitable intervals in the flanges thereof as shown to provide vertical integral pins situated in the same plane as the flanges, and the shelves having a shallow recess and a peripherally-perforated flange and engaging the aforesaid pins and notches, substantially as described. 40 45

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM ASHLEY NASII.

Witnesses:

H. E. WILLSON,
J. S. COLLINS.