

(No Model.)

C. J. BOPP.
BEER COOLER.

No. 255,575.

Patented Mar. 28, 1882.

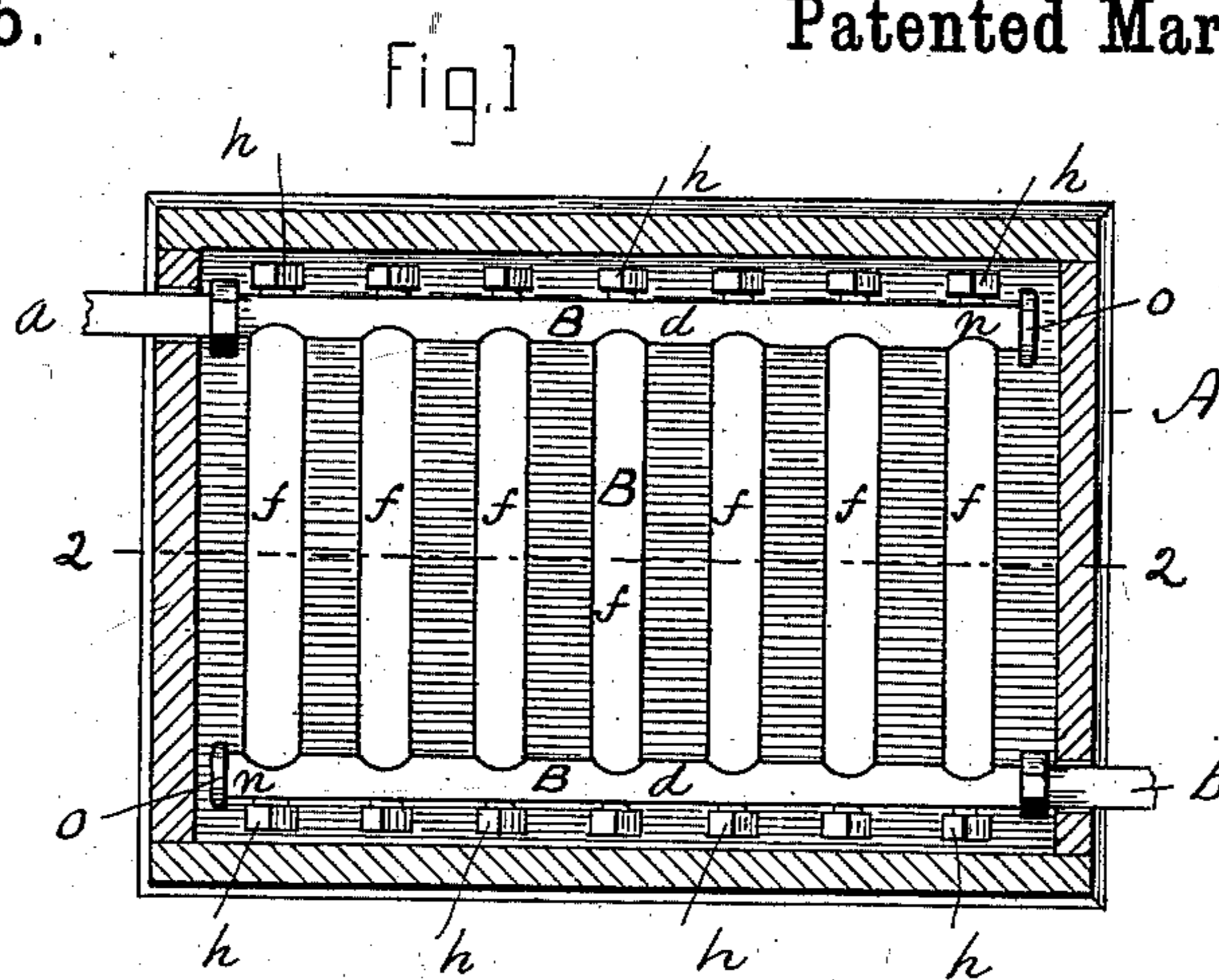


Fig. 2.

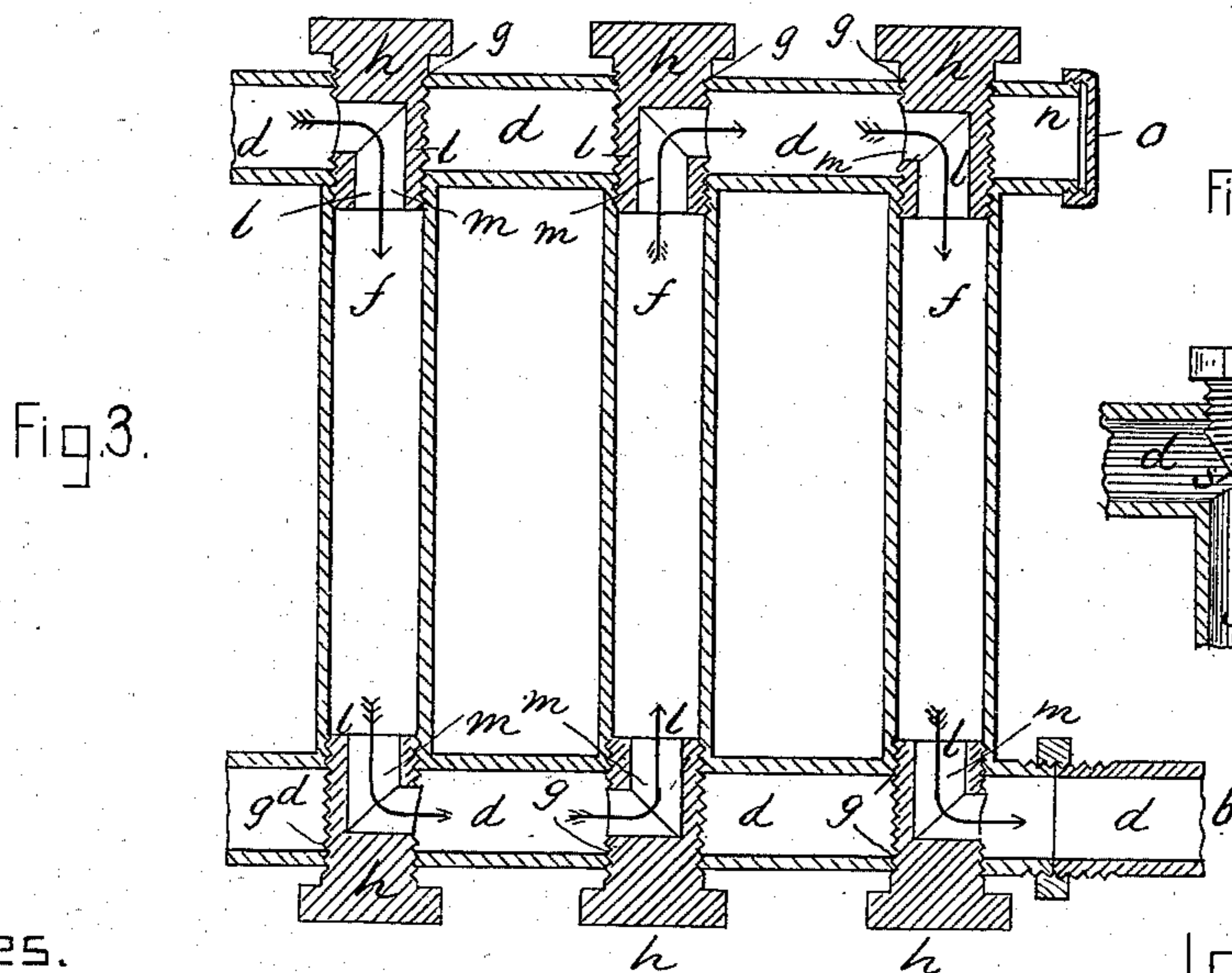
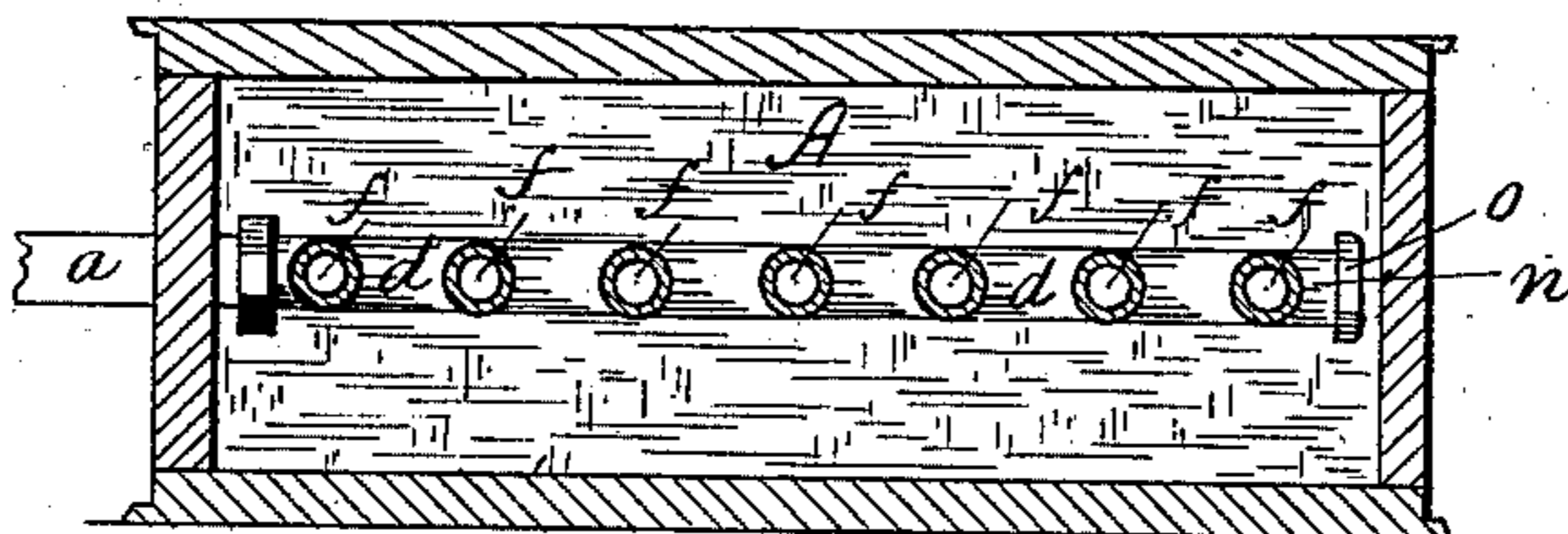
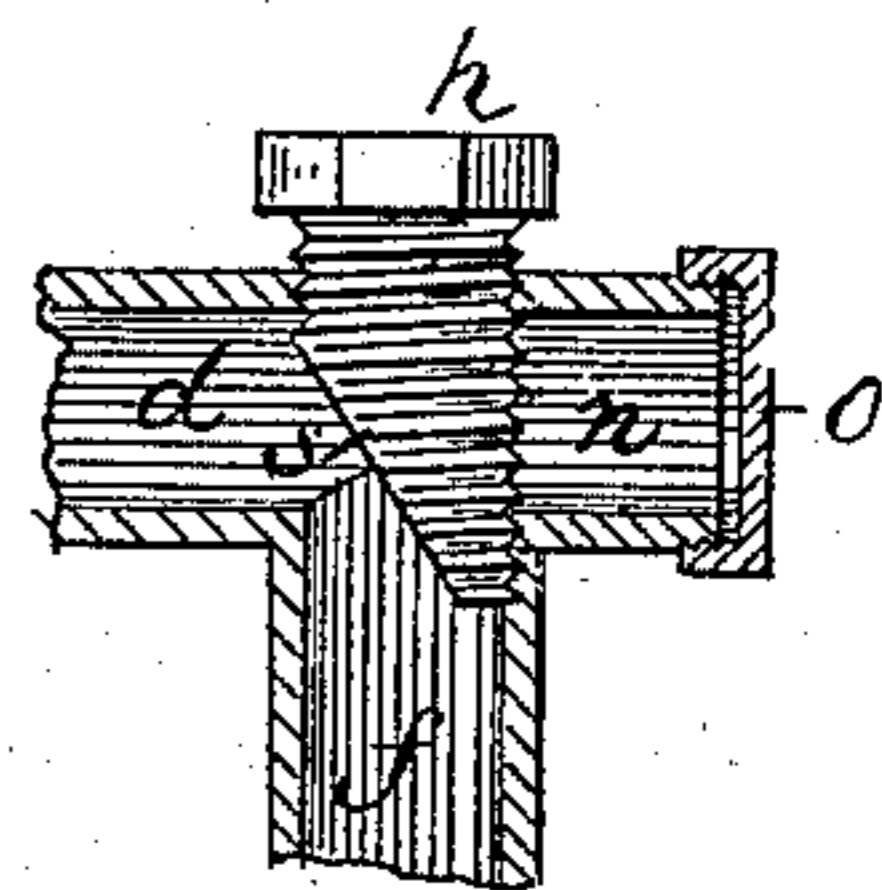


Fig. 4.



Witnesses.

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CHARLES J. BOPP, OF BOSTON, MASSACHUSETTS.

BEER-COOLER.

SPECIFICATION forming part of Letters Patent No. 255,575, dated March 28, 1882.

Application filed August 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. BOPP, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Beer-Coolers, of which the following is a full, clear, and exact description.

This invention relates to a cooler especially intended for use in the drawing of beer, &c. This cooler is composed of a coil of pipe arranged within a tank in which ice is to be placed, and at the one end connected to a keg or other supply of beer, &c., and at the other end to a faucet, and between these two connections constructed with apertures, each of which opens into the chamber of the pipe, and have screw-plugs for closing them, and all in such manner that with a removal of said plugs the pipe is opened to be cleaned in lines which run in the direction of the pipe, and are continuous from end to end, and at each end open for the escape of the material removed from the pipe in cleaning it, and with an insertion of said plug a continuous passage will be left through the pipe between its two ends, connected as aforesaid.

The improvements constituting my invention will be first fully described in detail, and afterward pointed out specifically in the claim.

In the accompanying plate of drawings, Figure 1 is a horizontal section of an ice-tank, showing a coil of pipe for the passage of beer, &c., in accordance with this invention; Fig. 2, a vertical section, line 2 2, Fig. 1; Fig. 3, a horizontal section, on an enlarged scale, on line 3 3, Fig. 2, through only the coil of pipes in part.

In the drawings, A represents a tank or box of any suitable construction for holding ice for cooling purposes, in connection with a coil, B, of pipe. This coil B of pipe is at the bottom of the tank A, and is there arranged in a horizontal plane, and at the one end, *a*, it is connected to a keg of beer, &c., and at the other end, *b*, to a faucet, all as usual. This coil B of pipe, as shown, is composed of two longitudinal lengths, *d*, of pipe running along the sides of the box, and of parallel transverse lengths *f* of pipe, which intersect the parallel lengths *d* at various points in their length and open into the same.

g represents apertures in each longitudinal length *d*, and each in line with the transverse

lengths *f*; *h*, a screw-plug closing each aperture *g*, and by its part *l* entering into and across the line of the longitudinal lengths *d*. Each plug at its part *l* has a passage, *m*, in it of a direction to secure, when the plugs are inserted, as shown, through several lengths of pipe, a continuous channel from end to end (see Fig. 3)—that is, from the keg to the faucet—for the passage of beer, &c. The ends *n* of the longitudinal lengths *d* of pipes not connected with either the keg or faucet are opened and closed by screw plugs or caps *o*, which screw in or on to the same.

The several plugs *h* and *o* obviously are capable of removal, and as arranged in connection with the lengths of pipe the pipes are then opened in lines from end to end, and thus placed in condition for their easy cleaning and for the escape of the material which is removed from the internal surface of the pipe in so cleaning.

The plugs *h* can be of any other form at their part *l* than as described—as, for instance, as shown in Fig. 4, which shows a plug *h* with a portion of the coil of pipe in detail sections, the plug being cut away, as at *s*, in lieu of the passage *m*—this invention not being limited to any particular construction of the part *l* of the plug so long as in such construction the beer will be caused to flow through the coil of pipe in a continuous line, as indicated, and is desired for a thorough cooling of the beer, &c.

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

In a beer-cooler, the combination of two longitudinal pipes, a series of transverse pipes intersecting the longitudinal pipes at points between the ends of the latter, and a series of removable plugs extending transversely through the longitudinal pipes at points opposite the ends of the transverse pipes, and constructed to direct the flow of beer from the longitudinal into the transverse pipes, all substantially in the manner and for the purposes set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES J. BOPP.

Witnesses:

EDWIN W. BROWN,
WM. S. BELLOWS.