

(No Model.)

F. D. MONTAGUE.

APPARATUS FOR DISTRIBUTING OIL ON SEAS.

No. 350,889.

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Fig. 1.

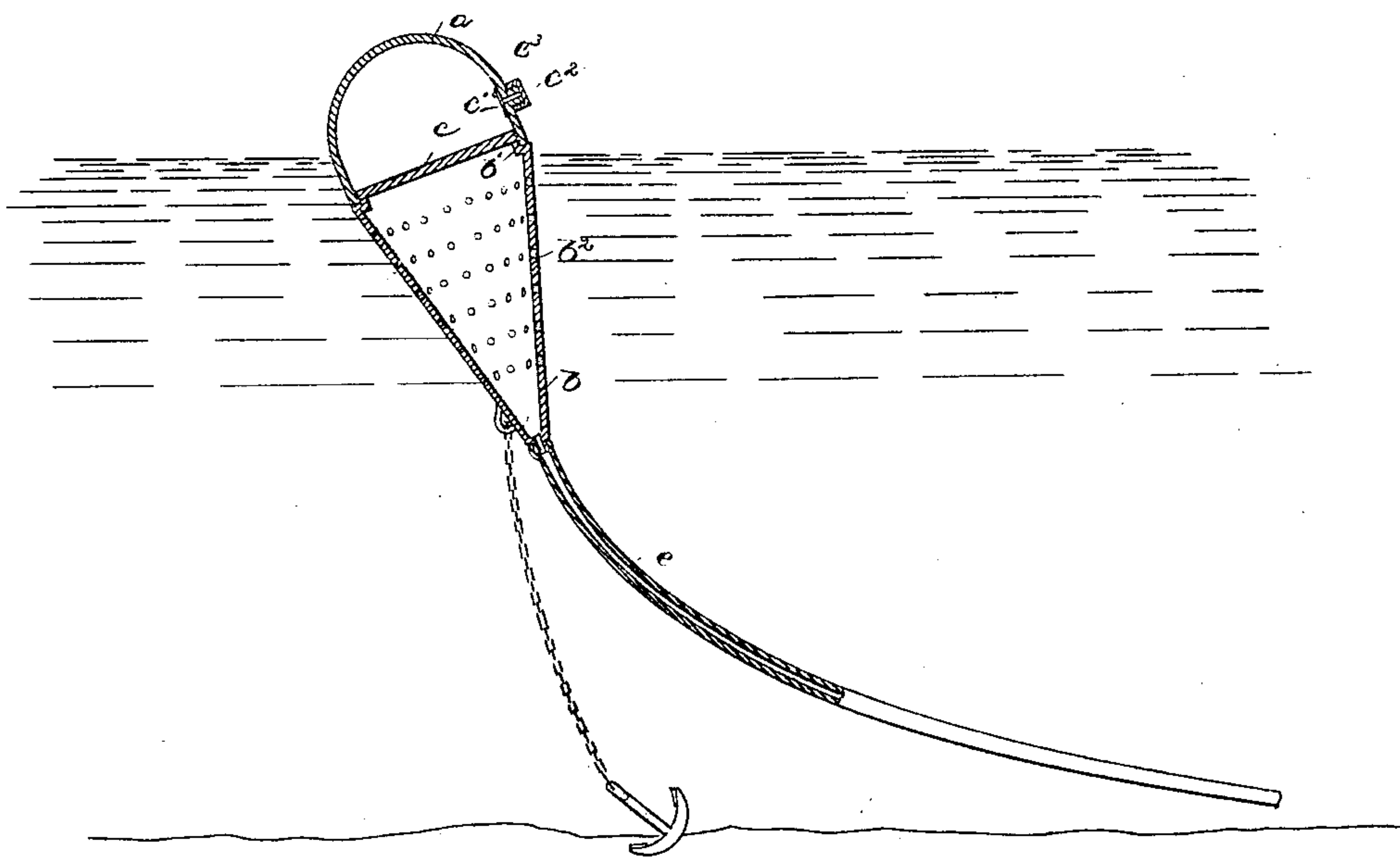
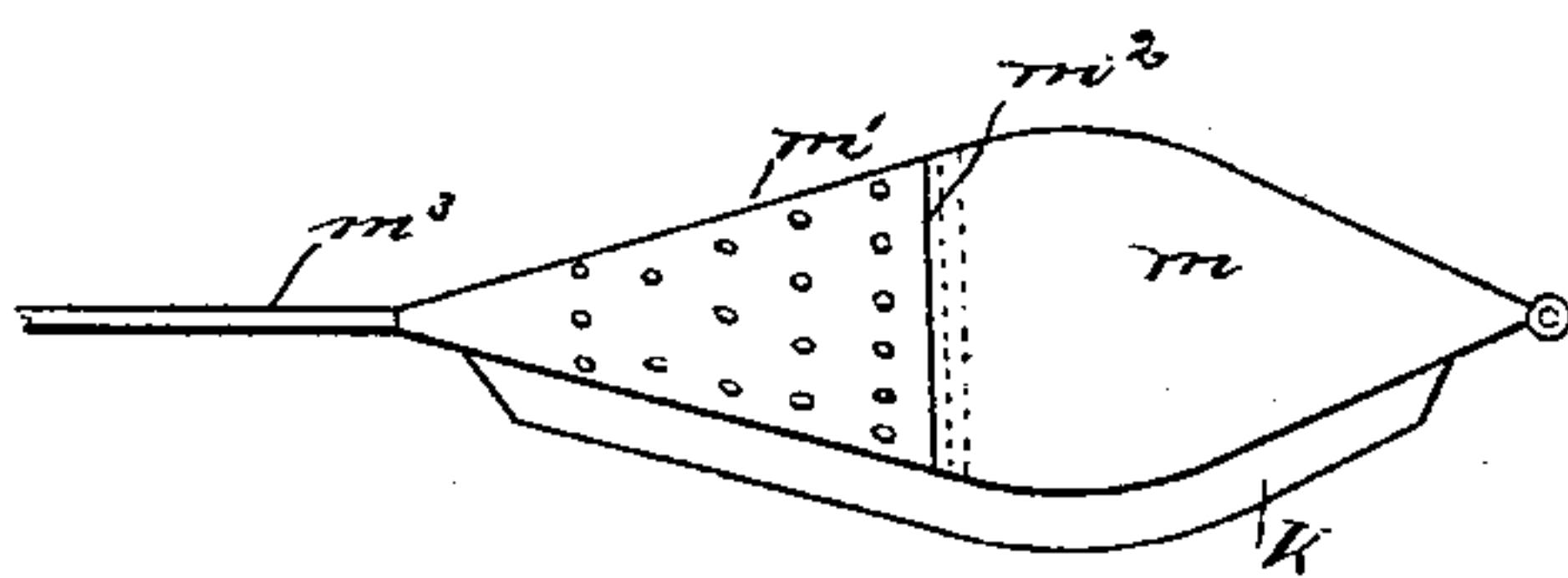


Fig. 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

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## APPARATUS FOR DISTRIBUTING OIL ON SEAS.

SPECIFICATION forming part of Letters Patent No. 350,829, dated October 12, 1886.

Application filed April 12, 1886. Serial No. 198,537. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS D. MONTAGUE, of Milford, county of Worcester, and State of Massachusetts, have invented an Improvement in Apparatus for Distributing Oil on Seas, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object to construct a floating distributor or buoy which may be employed, as occasion may require, to distribute oil over the surface of water in agitation.

15 The distributor in this instance consists of a shell having a division-wall, to thus form two compartments, one of which is closed to form a chamber, which may be filled with air, gas, cork chips, or similar buoyant material, or the air contained therein may be exhausted, 20 to thereby give to the distributor sufficient buoyancy, while the other compartment has perforated side walls, to permit the oil forced into the said compartment by means of any suitable force-pump to freely escape, and be 25 thereby distributed over the surface of the water.

The distributors herein to be described may be anchored at certain dangerous places about a light-house or near the shore, and a tube 30 lead from the light-house or shore, through which oil may be forced into the distributor by any suitable force-pump; or, if desired, the distributor may be carried upon a vessel, to be thrown overboard when necessary, and oil 35 forced therein by a force-pump located upon the vessel, as in my Patent No. 335,035, to which reference may be had.

40 Figure 1 shows a vertical section of a buoy or distributor embodying this invention, and Fig. 2 a side elevation of a distributor having a keel.

The distributor consists of a hemispherical shell or case, *a*, and a conical shell or case, *b*, joined together, but divided by a division-wall or diaphragm, *c*, screwed or otherwise 45 secured within the shell *a*, while the conical shell *b* has an annular lip or flange, *b'*, at the junction with the shell *a* to effect a tight joint.

50 The shell *a* and division-wall *c* form a chamber, which may be filled with air, compressed

air, cork chips, or other buoyant material; or, if desired, the air contained therein may be exhausted to give to the distributor sufficient buoyancy, a clack-valve, *c'*, controlling the passage through which the air passes, and a 55 screw-cap, *c''*, being provided to fit over upon the nipple *c''*, containing the air-passage, thus tightly closing the said passage and preventing the nipple from becoming injured.

The distributor, made buoyant as described, 60 is anchored at any desired point off shore or near a light-house, where the sea is occasionally excessively dangerous, and a tube, *e*, attached to the conical shell *b*, leads to the shore, or to some safe or convenient stationary place, 65 where a force-pump may be located to force oil through the tube *e* into the conical shell *b*. The side walls of the shell *b* are perforated, as at *b''*, to permit the oil entering the said shell to escape and float upon the surface of the wa- 70 ter. In this embodiment of my invention the buoy or distributor is or may be permanently located at different points, and when desired the force-pump (not shown) may be operated, and oil thereby distributed over the sur- 75 face of the water.

Referring to Fig. 2, a modified form of buoy or distributor is shown, which is more especially designed to be carried on board a ves- 80 sel, and thrown overboard when necessary, similar to that described in my patent heretofore referred to. Each shell in this latter instance is of conical shape, as at *m m'*, and separated by a division-wall, *m''*, (shown by dotted lines,) while a tube, *m'''*, is connected with the 85 perforated shell *m'*, and to any suitable force-pump located upon the vessel, through which the oil may be forced.

The distributor is provided with a suitable keel, *k*, to prevent rolling. 90

It is obvious that the division-wall in either instance of my invention may be placed at any angle to cause the buoy to normally lie at any desired position, vertically or horizontally. It is also obvious that the modification shown 95 in Fig. 2 may be employed similar to that shown in Fig. 1, the force-pump being located upon the shore or other stationary point, and also that the distributor shown in Fig. 1 may be employed as described with relation to 100



Fig. 2, to be thrown overboard, and the force-pump located upon the vessel.

I claim—

1. In an apparatus for distributing oil over  
5 the surface of water, a floating distributor consisting of a case containing two compartments, one of which serves as the buoyant chamber, while the other is perforated and receives and distributes the oil, combined with a supply-  
10 tube by which said perforated compartment receives oil, substantially as described.

2. In an apparatus for distributing oil over the surface of water, the floating distributor having buoyant and oil-distributing com-  
15 partments, combined with the supply-tube connected with the oil-distributing compartment, through which oil is caused to flow, substantially as described.

3. In an apparatus for distributing oil over  
20 the surface of water, the floating distributor having buoyant and oil-distributing compartments, combined with the supply-tube connected with the oil-distributing compartment and anchor, substantially as described.

4. In an apparatus for distributing oil over 25 the surface of water, the distributor consisting of two shells joined together, and a division-wall located at their junction, one of the said shells having a valve to control the passage thereto, while the other shell is perforated, 30 combined with a supply-tube connected with the perforated shell or compartment, all substantially as described.

5. In an apparatus for distributing oil over the surface of water, the floating distributor 35 having buoyant and oil-distributing compartments, combined with the supply-tube connected with the oil-distributing compartment and keel, substantially as described.

In testimony whereof I have signed my name 40 to this specification in the presence of two subscribing witnesses.

FRANCIS D. MONTAGUE.

Witnesses:

J. E. WALKER,  
C. B. WETHERBY.