

No. 17,228.

17,228 Robert R. Cygerts' Imp'd. Hand-hole for Vessels &c.

Patented May 5, 1857.

Figure 1.

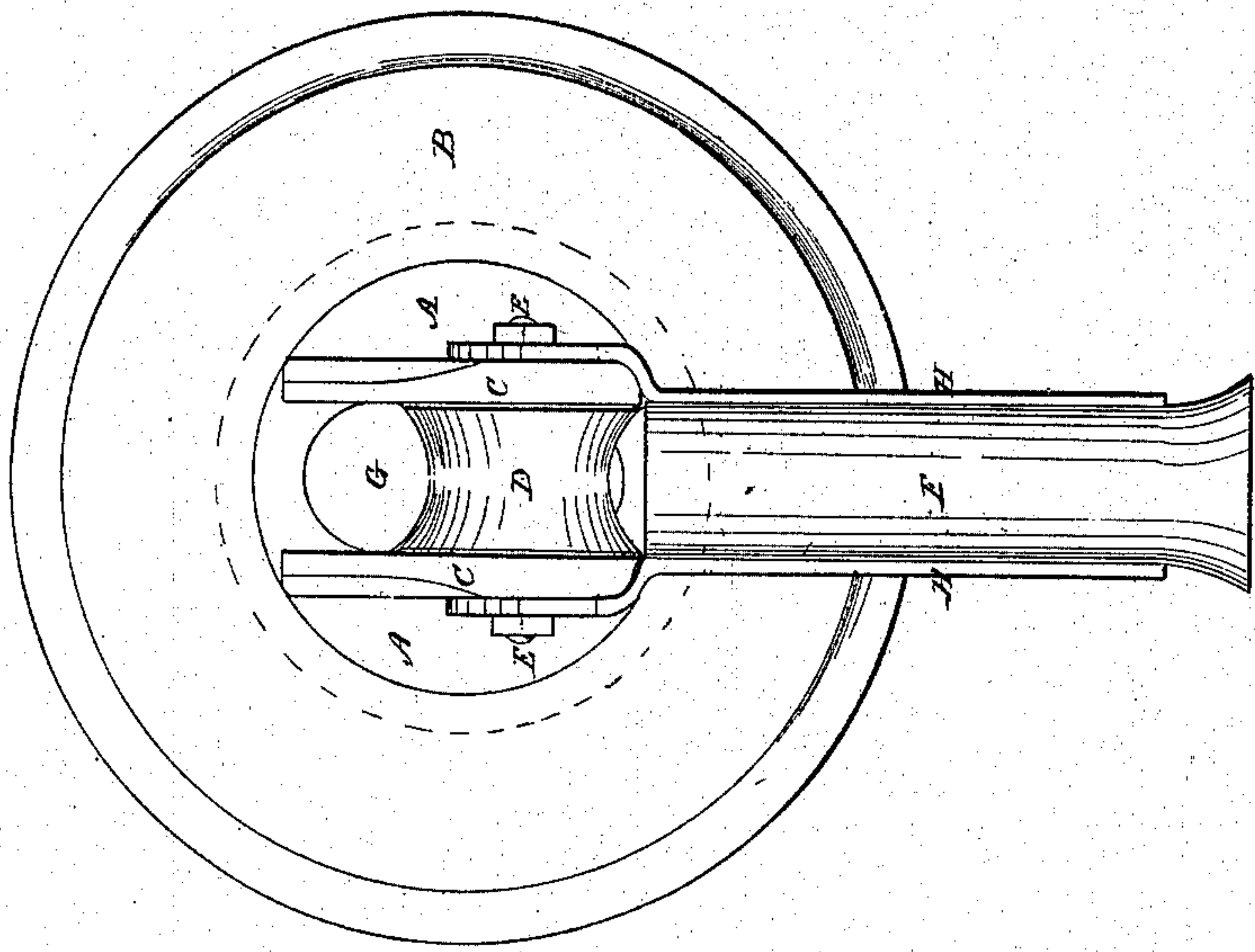


Fig. 2.

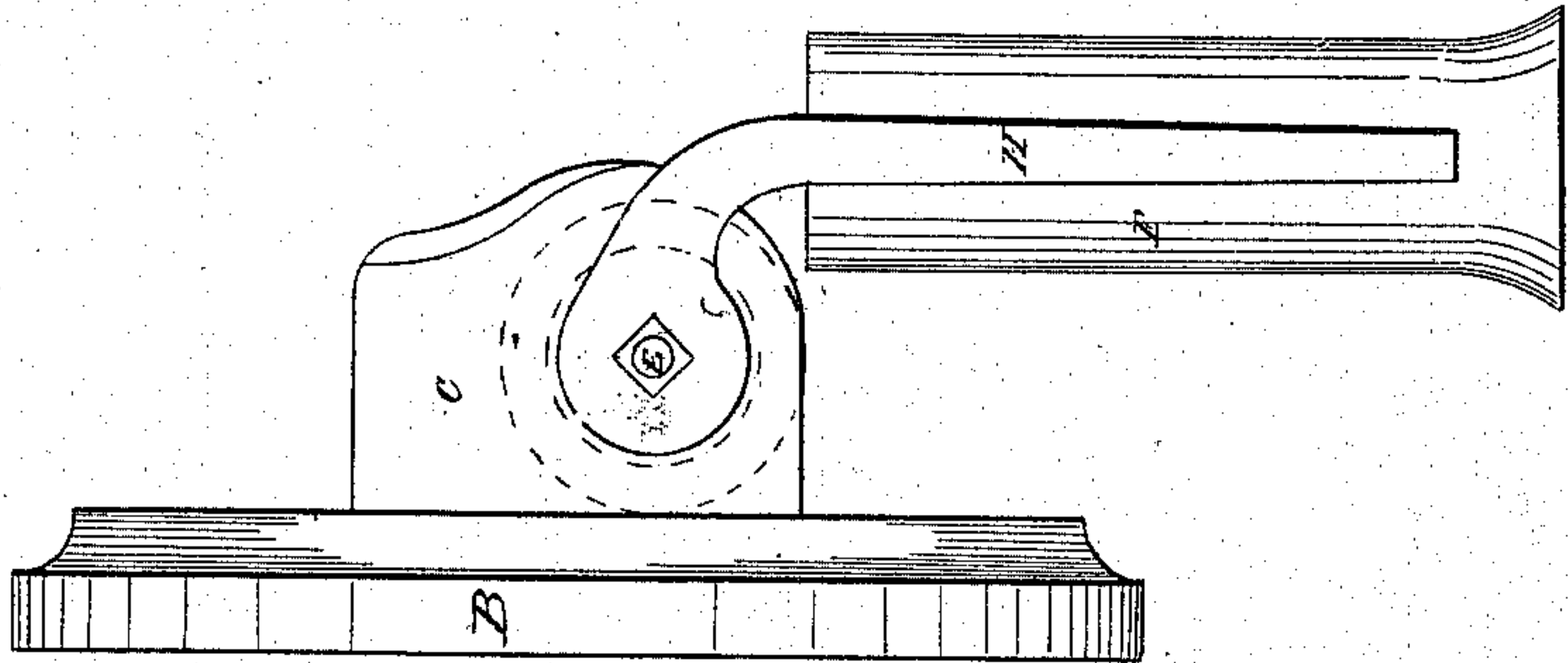
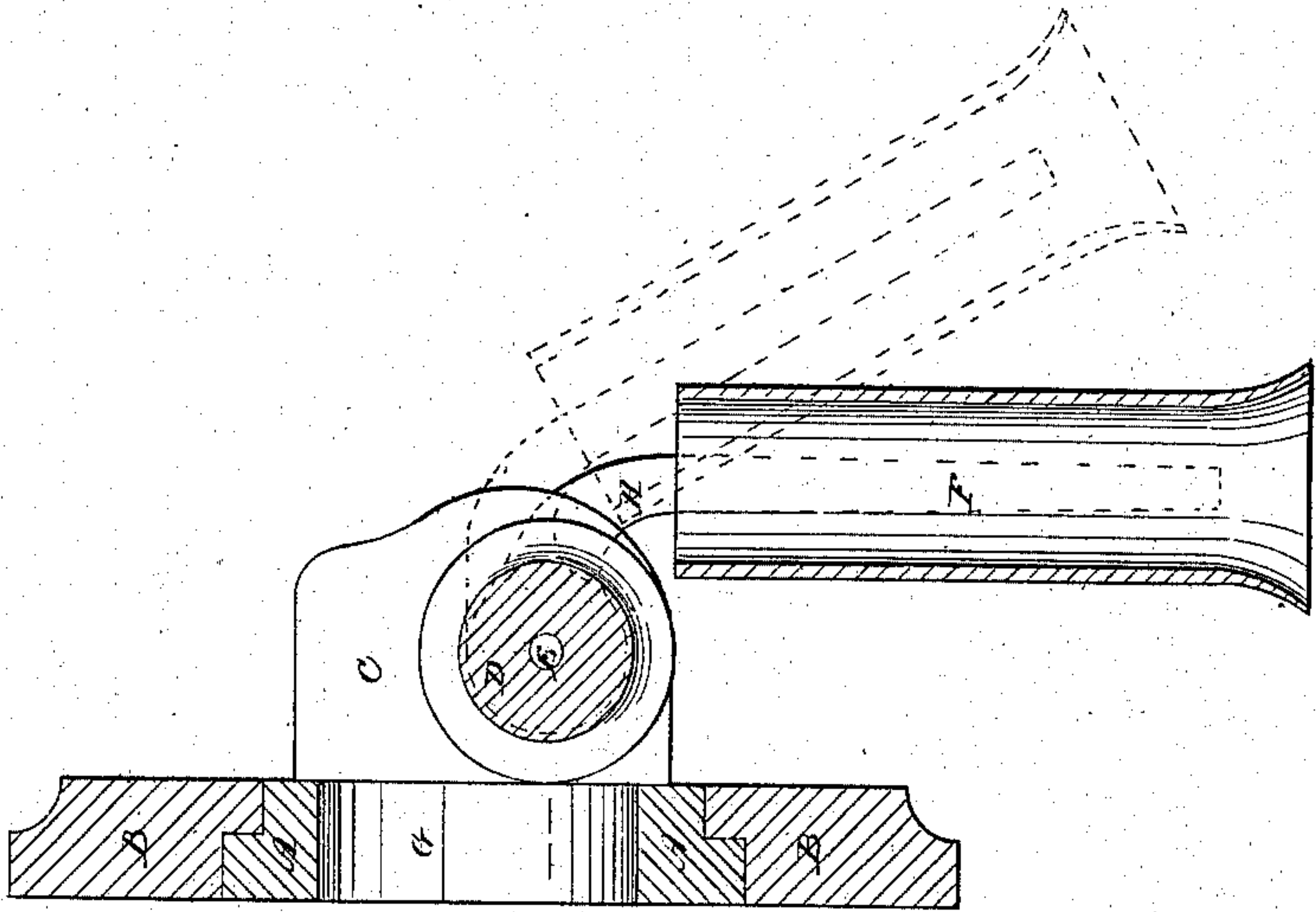


Fig. 3.



UNITED STATES PATENT OFFICE.

ROBERT R. OSGOOD, OF TROY, NEW YORK, ASSIGNOR TO J. C. OSGOOD.

SHIP'S HAWSE-HOLE.

Specification of Letters Patent No. 17,228, dated May 5, 1857.

To all whom it may concern:

Be it known that I, ROBERT R. OSGOOD, of Troy, in Rensselaer county and State of New York, have invented certain new and useful Improvements in Hawse-Holes for Vessels and other Like Purposes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, through letters of reference marked thereon, forming part of this specification, in which—

Figure 1, represents a front view of my improved hawsehole, Fig. 2, a side elevation, and Fig. 3, a section taken on the line $x\ x$ of Fig. 1.

The same letters of reference appearing in the several figures indicate like parts.

The nature of my invention, consists in hanging the pulley on a rotating bed-plate, and connecting therewith a tubular guide, through which the rope or chain passes on, or off, the pulley, and which, in yielding to the direction of the rope, causes the bed-plate on which the pulley is supported to rotate in such manner, as to insure that the axis of the pulley, shall at all times be at right angles to the direction of the rope, on, or off, to prevent it chafing from riding on the edge of the pulley, or against the side of the hawsehole.

To enable others to make and use my invention, I will describe its construction and operation in detail.

(A) represents a circular plate, so formed around its periphery, in connection with the plate or flanch (B) which surrounds it, that when the latter is bolted firm in its position, the former is also secured, but is capable of being rotated within it; on this plate (A), are two brackets (C), projecting at right angles to its face; between which, a pulley (D) is supported, on the axis (E); an opening (G) is made between the brackets in the plate (A), to allow a rope to pass through over the top of the pulley.

(F) is a tube, the bore of which is slightly larger than the rope or chain intended to be used, which is made bell shaped at the end, to prevent it from chafing the rope as it passes through; two side straps (H) are connected to this tube, by which it is hinged on the axis (E), which admits of it moving in the plane of motion of the pulley, while any side strain, caused by the direction of the rope on or off, as the case may be, is communicated by it to said axis, which rotates the plate (A) within the flanch (B), and thus insures the axis of the pulley, being at all times square to the direction of the rope.

The plate (A) may be constructed, with antifriction rollers around its periphery, on the face and edge, to insure its free action under heavy pressure, if found necessary; and the hinged tube, may be arranged on either side of the pulley, so as to act upon its axis by the varying direction of the rope, either in passing on to, or off of the pulley; or by using two pulleys similarly arranged, they may be used on both sides. The applicability of this arrangement, to a great variety of purposes, will be so apparent, that it is deemed unnecessary to enumerate any of them here.

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

Supporting a pulley on a rotating bed, and combining therewith a guide tube hinged on its axis for the rope to pass through, substantially as, and for the purposes herein set forth.

In testimony whereof I hereunto set my hand this 30th day of March 1857.

ROBERT R. OSGOOD.

Witnesses:

MOSES WARREN,
FRED. D. TATOR.