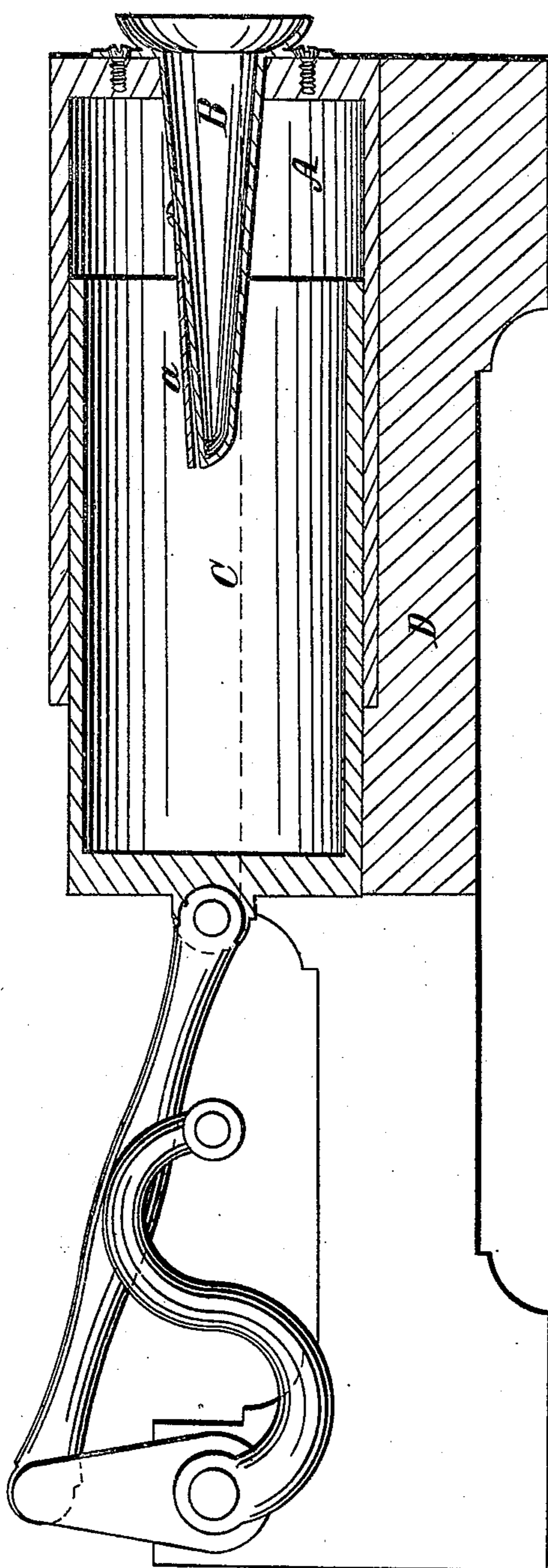


J. R. ANDERSON.

Fog Alarm.

No. 79,538.

Patented July 7, 1868.



Witnesses.

A. Keller.
E. P. Tracy.

Inventor.

John R. Anderson

United States Patent Office.

JOHN R. ANDERSON, OF BROOKLYN, NEW YORK.

Letters Patent No. 79,538, dated July 7, 1868.

IMPROVEMENT IN FOG-ALARMS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN R. ANDERSON, of Brooklyn, in the county of Kings, and State of New York, have invented a new and useful Improvement in Fog-Horns; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which is represented a longitudinal section of a fog-horn constructed according to my improvement.

The object of this invention is to furnish a compact and convenient and easily-operated device for the signalling on vessels during the time of fogs; and consists in a novel arrangement, within a hollow cylinder, of a trumpet, which is acted upon by compressed air, by means of a hollow plunger, fitted to work within the cylinder, and whereby extreme compactness is given to the apparatus, by the arrangement of the trumpet within the cylinder, and within the hollow plunger operating therein.

In order that others may be better enabled to understand the construction and operation of my invention, I will proceed to describe it with reference to the drawings.

A is a hollow cylinder, resting in a suitable foundation-bed, D. B is a trumpet, inserted into one end of the cylinder A, which is closed, and held firmly therein by screws passing through a flange on the bell of the trumpet, and securing said flange to the outer end of the cylinder A, the whole or nearly the whole of the entire length of the trumpet being within the cylinder, and thus occupying the least practicable room, and being protected from injury. *a* is a reed, of substantially the same construction as those commonly used in reed-organs, and inserted into the inner end of the trumpet B. C is a hollow plunger, closed at its outer end, and working, by means of a crank and pitman, into the cylinder A, and over and around the trumpet B, so that the alternate compression of the air caused by the reciprocation of the plunger C, acts upon the reed *a* in the end of the trumpet B, producing a sound thereby, which will be heard and distinguished to a distance in proportion to the size of the machine. A more continuous sound may be given from the invention, by the use of two or more plungers, operated by a double crank set at right angles to each other on the shaft; or the same may be effected with one crank and plunger, by the addition of a reversed reed on the opposite side of the trumpet B.

What I claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of the trumpet or horn B and hollow plunger C, relatively to each other, and with the cylinder A, substantially as herein described for the purpose set forth.

JOHN R. ANDERSON.

Witnesses:

T. T. HALLIGAN,
ED. P. TRACY.