

UNITED STATES PATENT OFFICE.

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WIND-INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 387,333, dated August 7, 1888.

Application filed April 6, 1888. Serial No. 269,731. (No model.)

To all whom it may concern:

Be it known that I, MARY F. CANNEY, a citizen of the United States, and a resident of Groveland, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Wind-Instruments, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in wind-instruments, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a side elevation, and Fig. 2 represents a central longitudinal section, of the improved wind-instrument. Fig. 3 represents a cross-section on the line A B shown in Figs. 1 and 2.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a represents a cylinder having open ends and provided midway between its ends with a solid partition or diaphragm, *a'*, soldered or otherwise secured in an air-tight manner to the said cylinder *a*, as shown in Figs. 2 and 3.

Within the cylinder *a* are arranged on opposite sides of the partition or diaphragm *a'* the packed movable pistons *b b*, as shown in Fig. 2, and to each of such pistons is secured the inner open end of the reed pipe or horn *c*, provided with a vibratory reed, *c'*, common to "fish-horns" and similar wind-instruments. The horns *c c* are connected together at a proper distance apart by means of the stay-wires *d d*, which pass outside of the cylinder *a*, the latter having longitudinal guides *a'' a''* on its exterior surface for receiving said guide-wires and to enable the cylinder *a* to be grasped without interfering with the free motion of such guide-wires when the instrument is sounded.

The instrument is operated as follows: The

operator holds the cylinder *a* in one hand and grasps the outer end of one of the horns *c* with the other and moves the cylinder *a* forward and back relative to the connected horns *c c*, or vice versa, thus causing the air to be intermittently admitted through the horns into the spaces between the stationary partition *a'* and the movable pistons *b b* and to be intermittently forced out from such spaces through the reed-openings, thus causing each horn to be sounded while being moved rapidly toward the central partition, *a'*. During such reciprocating motion of the horns or the cylinder *a* the bent ends *d' d'* of the guide-wires *d d* serve as stops against the outer ends of the cylinder *a* to limit the movement of said parts, so as to prevent the inner ends of the horns or the pistons *b b* from coming in contact with the stationary partition *a'*. By means of this instrument powerful intermittent sounds are produced, making it very useful as a fog-horn or as a calling or signaling wind-instrument, or for other purposes.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

The wind-instrument as described, consisting of the cylinder *a*, having the partition or diaphragm *a'*, and a pair of movable sounding-horns, *c c*, provided with pistons *b b* and connected together for operation, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 29th day of March, A. D. 1888.

MARY F. CANNEY.

Witnesses:

ALBAN ANDRÉN,
WALTER S. CANNEY.