J. G. LAMONT & G. L. SWETT.

VENTILATING COWLS.

No. 179,925. Patented July 18, 1876.

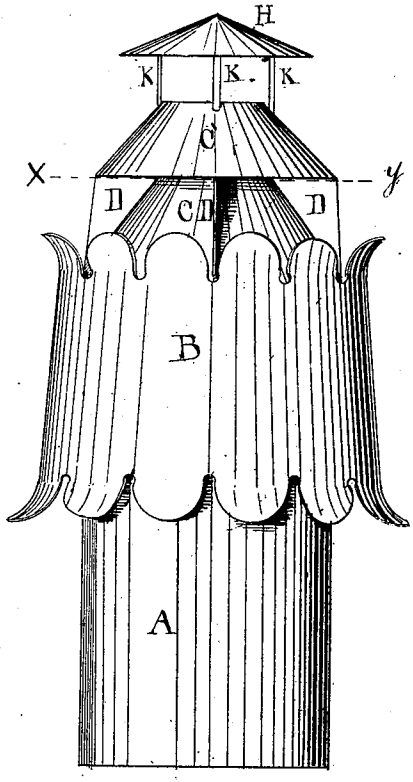

Fig. 1.

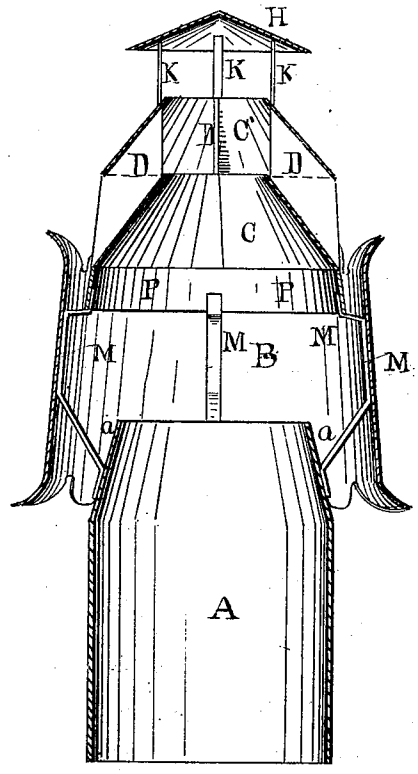

Fig. 2

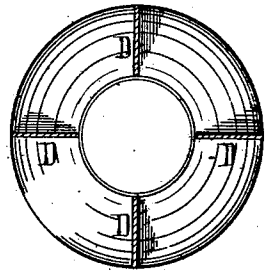

Fig. 3

WITNESSES

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JOHN G. LAMONT AND GREENLEAF L. SWETT, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN VENTILATING-COWLS.

Specification forming part of Letters Patent No. **179,925**, dated July 18, 1876; application filed June 26, 1876.

To all whom it may concern:

Be it known that we, JOHN G. LAMONT and GREENLEAF L. SWETT, both of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Ventilating-Cowls, of which the following is a specification:

The nature of our invention consists in combining with the upper extremity of a ventilating pipe or duct, which has a protecting-shield around it, a series of inclined radial passages, for the purpose of deflecting the wind on the windward side, and to assist in creating a partial vacuum on the lee side.

Figure 1 is an elevation of our invention. Fig. 2 is a vertical section of the same. Fig. 3 is a cross-section taken on the line *x y* of Fig. 1.

Let A represent the ventilating pipe or duct. This pipe terminates in a somewhat contracted mouth, as indicated by the inclined sides *a a*, Fig. 2. Surrounding the top or mouth of this pipe we place the wind-shield B. (See Figs. 1 and 2.) Immediately above the top of the pipe A we place the inclined radial passages, which are formed of the coned plates C and C′, and the vertical divisions D D D D. Above the whole we place the cap H. All of the parts are made securely fast to each other by rods, wires, or strips K K M M, &c., Fig. 2.

By the use of the radial inclined passages, as described above, we obtain, in case the wind blows, a means for deflecting and throwing upward the current of air, which will cause a draft in the pipe. In addition to this the lee passages will be in partial vacuum, and thus cause a still further draft through the pipe A. At the lower extremity of the cone-plate C we attach the curtain P P, Fig. 2, as a snow and rain guard.

Having now described the construction and operation of our invention, what we claim is as follows:

In a ventilator-cowl, the combination of the wind-shield B with the device C C′ D D D D, by which the radial inclined passages are formed, substantially as described, and for the purpose set forth.

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