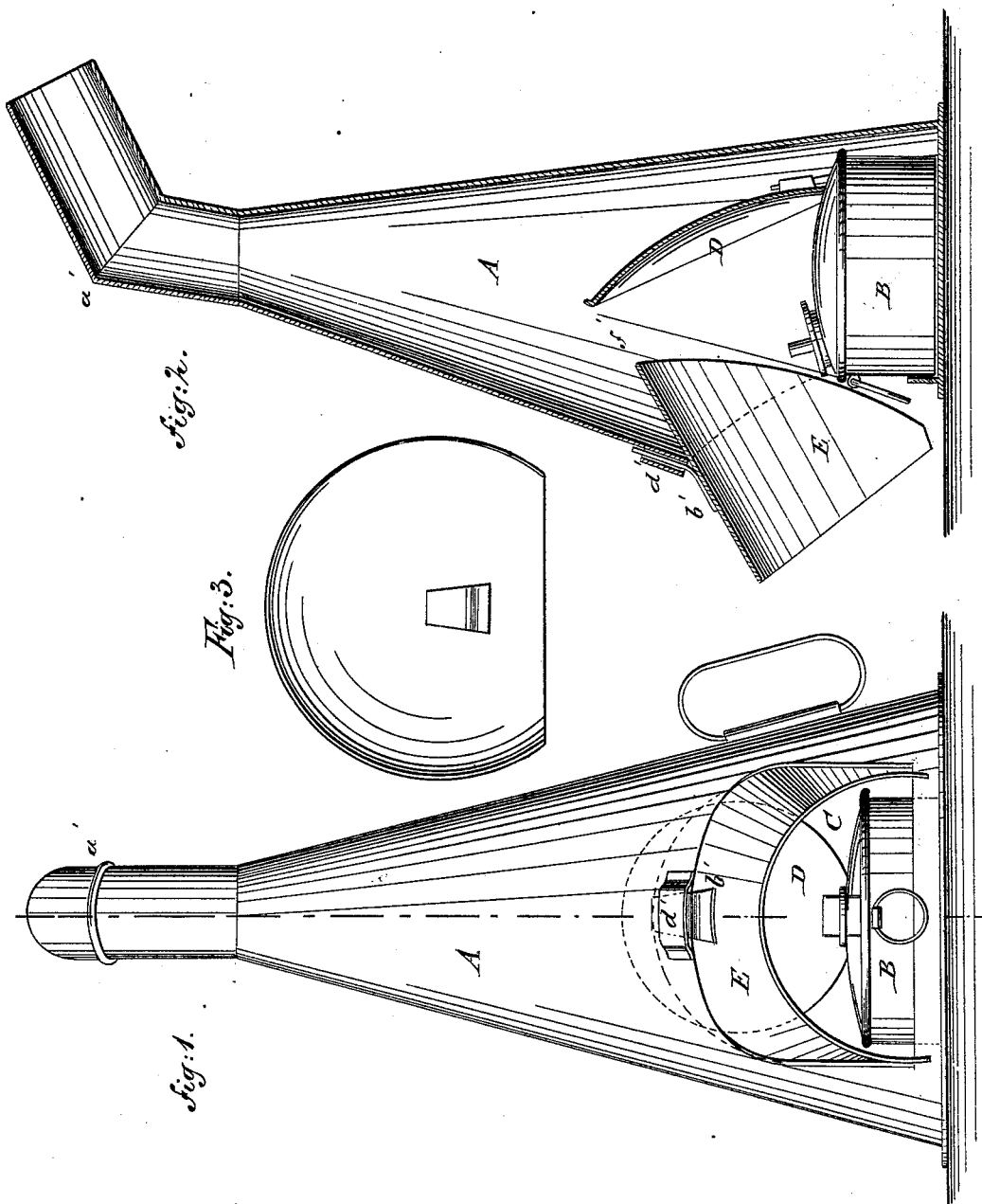


P. V. COOGAN.  
Lantern.

No. 213,627.

Patented Mar. 25, 1879.



WITNESSES:

*C. Sedgwick*  
*J. M. Henley*

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# UNITED STATES PATENT OFFICE.

PATRICK V. COOGAN, OF NEW YORK, N. Y.

## IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. **213,627**, dated March 25, 1879; application filed February 17, 1879.

### *To all whom it may concern:*

Be it known that I, PATRICK V. COOGAN, of the city, county, and State of New York, have invented a new and useful Improvement in Lanterns for Use in Millstone-Dressing, of which the following is a specification:

Figure 1 is a front elevation of the lantern. Fig. 2 is a sectional elevation through line *xx*. Fig. 3 is an elevation of a reflector.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a lantern for use in millstone-dressing that shall throw a clear light upon the land or furrow of the stone, and that shall not only convey away all the smoke given off by the lamp, but also the fine dust arising from the dressing of the stone.

The invention consists of a conically-shaped lantern-body, A, prolonged upward into a chimney, with an elbow or bend, *a'*, in it.

A lamp, B, is placed within the lantern-body through the opening C, and the lamp is furnished with an adjustable reflector, D, to reflect its light forward out of the lantern-body.

The hood E is secured to the lantern-body by being thrust partially through the opening C, and by the engagement of its ear *b'* in the loop *d'*. This hood is adjustable at different angles, and has its under surface polished, to serve as a reflector. Its most effective position, ordinarily, is as shown in the drawing. In this position it does not interfere with the light reflected from the reflector D, but reflects light from the flame downward and outward, while, in combination with the reflector D, it forms a narrow flue, as appears at *f'*, that induces a strong upward current of air.

The burner or wick of the lamp B is placed as near as possible to the outer edge of the opening C, so that its light may be better thrown upon the millstone.

When this lantern is used it is found that the hood screens the light from the eyes of the operator; that the draft caused by the burning lamp carries with it all the fine and light stone-dust raised by the strokes of the pick upon the stone, and prevents it from entering the lungs or nostrils of the workman, while the chimney conveys the smoke and fine dust away above the head of the workman, and, by means of the elbow or bend in it, directs their current from him.

By the use of this lantern the stone-dresser is enabled, by the clearness of the light, to sit upright at his work, so that the heavier dust and particles of grit made that will not be drawn up by the lantern-chimney cannot reach his mouth or nostrils.

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

1. The improved lantern consisting of lantern-body A, with elbow *a'*, lamp B, reflector D, and hood E, substantially as herein shown and described.

2. In combination with a conically-shaped lantern-body, the lamp B, reflector D, and hood E, substantially as herein shown and described.

3. The conically-shaped lantern-body A, with elbow *a'*, substantially as and for the purpose described.

4. In the construction of a lantern, the combination of lamp B, reflector D, and hood E, substantially as and for the purpose described.

PATRICK V. COOGAN.

Witnesses:

C. SEDGWICK,  
I. I. STORER.