F. E. DALLERY.

Extinguishing Device.

No. 225,350. Patented Mar. 9, 1880.

Fig. 1.

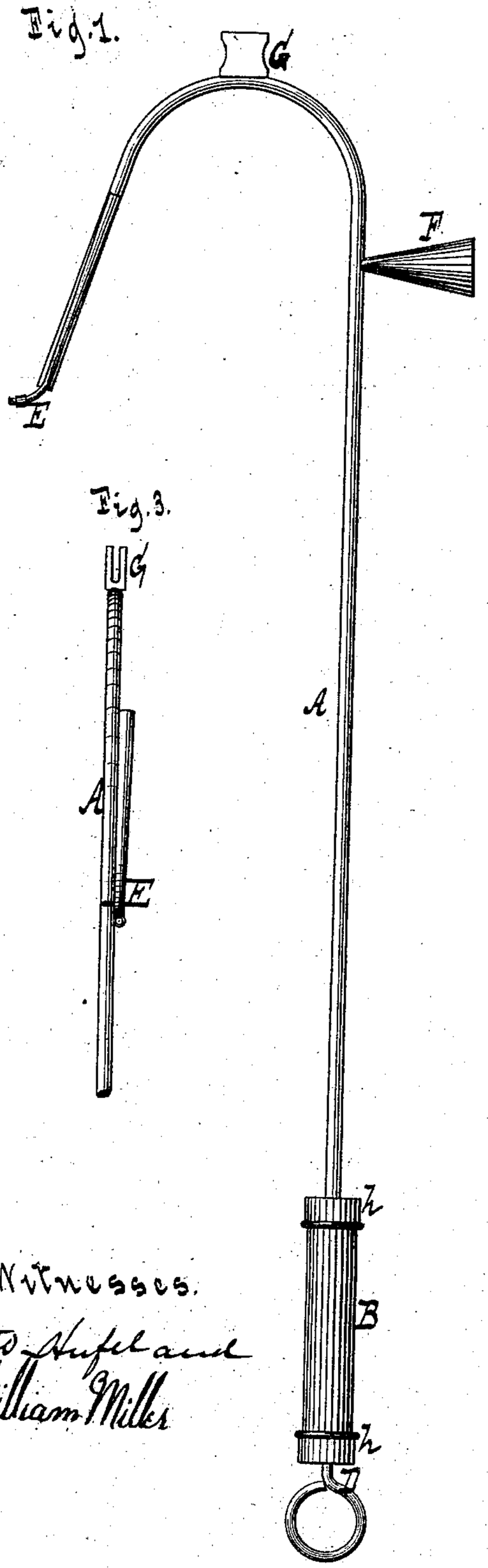

Fig. 2.

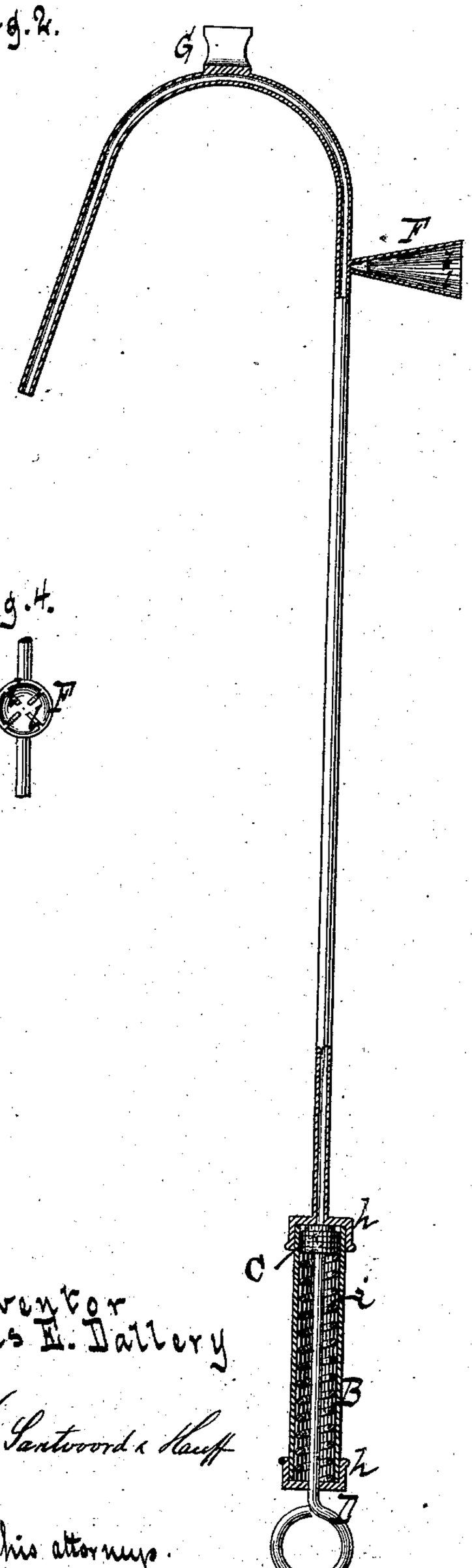

Fig. 3.

Fig. 4.

Witnesses.

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UNITED STATES PATENT OFFICE.

FRANCIS E. DALLERY, OF JERSEY CITY, NEW JERSEY.

EXTINGUISHING DEVICE.

SPECIFICATION forming part of Letters Patent No. 225,350, dated March 9, 1880.

Application filed September 4, 1879.

To all whom it may concern:

Be it known that I, FRANCIS EDWARD DALLERY, of Jersey City, Hudson county, State of New Jersey, have invented a new and useful Improvement in Lighters and Extinguishers, which invention is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a side view of my instrument. Fig. 2 is a like view thereof, partly in section. Fig. 3 is a front view of the same. Fig. 4 is a detail view of the wick-wheel-raising device.

Similar letters indicate corresponding parts.

My invention relates to instruments for lighting and extinguishing lamps or gas-lights located beyond convenient reach; and it consists in the combination of a bent tube, a cylinder attached to one end of such tube, a spring-impelled piston fitted into the cylinder, and its rod, for the purpose of producing an air-blast and directing such blast upon a flame.

In the drawings, the letter A designates the bent tube; B, the cylinder; C, the piston; D, the piston-rod; E, the taper-holder; F, the wick-wheel socket, and G the gas-cock key.

The bend in the tube A is near its upper end, and the cylinder B is provided with two heads, *h h*, one at each end, by one of which it is attached to the lower end of the tube.

The piston C is fitted into the cylinder B and subjected to the action of a spring, *i*, having a tendency to impel or force the same in an upward direction, while the rod D serves to retract the same against the spring. This rod D extends through the lower head, *h*, of the cylinder, and is bent at the outer end, so that it may be conveniently taken hold of.

If the piston C is drawn back and then released, the air in the tube A is thereby compressed and a blast of air is ejected from the outer or free end of the tube, so that if this blast is directed upon a flame by holding the tube accordingly the flame is extinguished.

It will be seen that the piston and cylinder constitute a very effective air-compressing device, and one which is extremely durable.

The taper-holder E consists of a tube open at both ends, and is attached to the upper or free end of the tube A, the same being curved away from the tube A at its extremity, where it projects, as shown. By this arrangement of the taper-holder E it is adapted for lighting a lamp or gas, while it does not materially increase the size of the instrument.

The socket F projects from a straight portion of the tube A, and has a conical or flaring shape, while it is provided with internal longitudinal ribs, *l*. By placing the socket F over the head of a wick-raising wheel upon a lamp the ribs *l* engage such head, so that the wheel can be turned to raise or lower the wick by a corresponding motion of the socket, and, owing to its peculiar shape, the socket is adapted to wick-wheels of any usual size.

The key G is situated at the top of the bend in the tube A, and has a forked shape, so that it may readily be adjusted over the key of a gas-cock for opening or closing the latter.

I am aware that it is not new to combine with a bent tube an air-compressing device consisting of an elastic bulb; nor is it new, broadly, to combine a taper-holder with a bent tube and air-compressor. Such not being within the scope of my invention, I hereby disclaim the same.

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

1. The combination of a bent tube, a cylinder attached to one end of such tube, a spring-impelled piston fitted into the cylinder, and its rod, for the purpose of producing an air-blast and directing such blast upon a flame, all constructed and adapted for use substantially as described.

2. The combination, with a bent tube, A, and air-compressing device, of the taper-holder E, composed of a tube open at both ends, secured to the upper free end of the bent tube parallel therewith, and curved away from the extreme end of the said bent tube, substantially as described.

In testimony whereof I have hereunto set my hand and seal this 2d day of September, 1879.

FRANCIS EDWARD DALLERY. [L.S.]

Witnesses:

W. HAUFF,

CHAS. WAHLERS.