

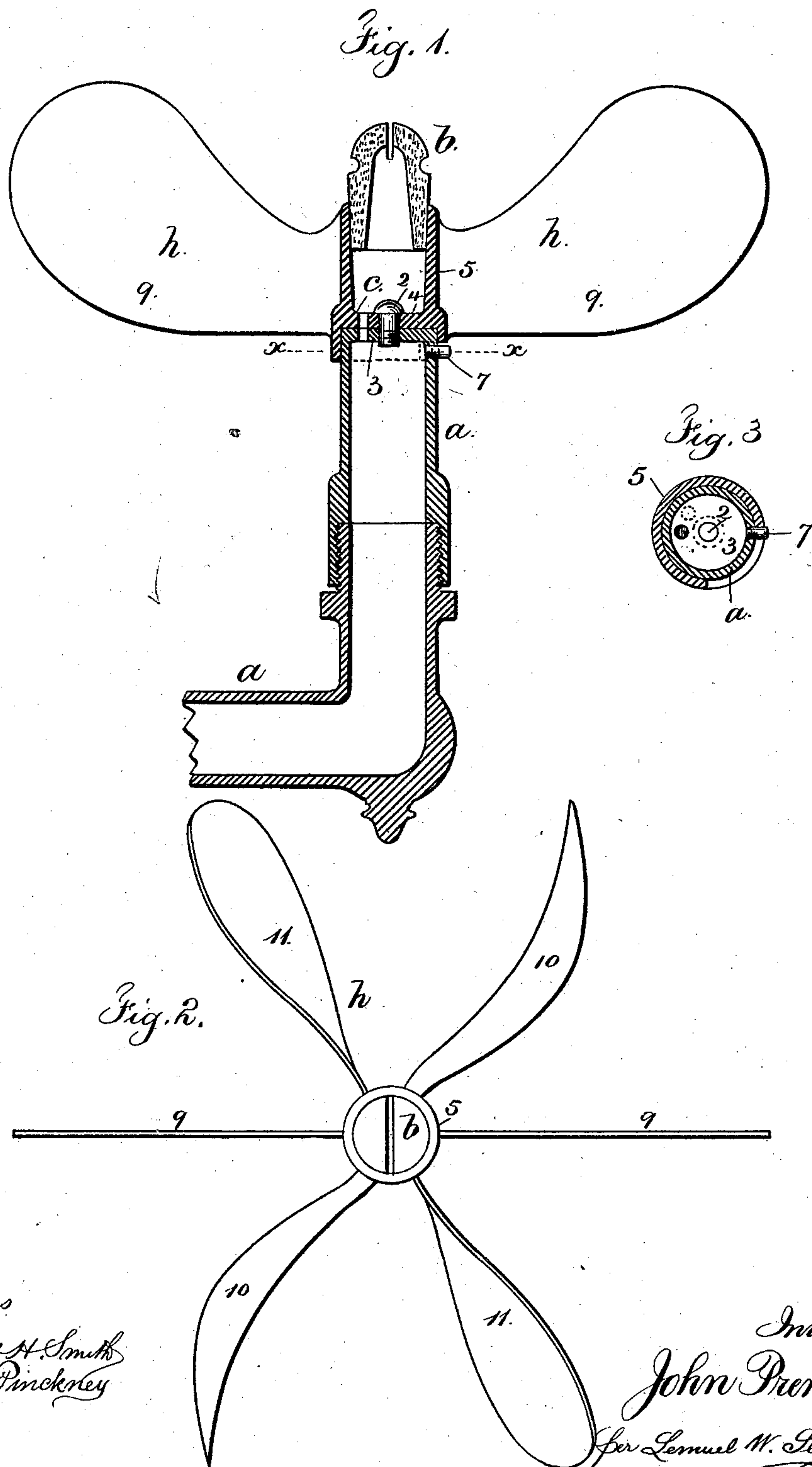
(No Model.)

J. PRENTICE.

# AUTOMATIC EXTINGUISHER FOR GAS BURNERS.

No. 370,816.

Patented Oct. 4, 1887.



Witnesses

Chas. H. Smith  
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# UNITED STATES PATENT OFFICE.

JOHN PRENTICE, OF NEW YORK, N. Y.

## AUTOMATIC EXTINGUISHER FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 370,816, dated October 4, 1887.

Application filed September 13, 1886. Serial No. 213,377. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN PRENTICE, of the city and State of New York, have invented an Improvement in Automatic Extinguishers for  
5 Gas-Burners, of which the following is a specification.

Persons unacquainted with the use of gas-lights frequently blow out the flame, and the continued escape of the gas often causes loss  
10 of life.

Gas-burners have been made with a wind-wheel around the burner-tip connected with a cock, so that the wheel is partially turned by the action of the air in any attempt to blow  
15 out the flame.

My invention relates to improvements in this class of gas-burners by which the parts are made to act with less friction and in a more reliable manner.

20 In the drawings, Figure 1 is a vertical section showing a burner and the wind-wheel and cock. Fig. 2 is a plan view with tube for the tip in section; and Fig. 3 is an inverted sectional plan at the line *x x*, Fig. 1.

25 I make use of the gas-tube *a*, provided with a perforated cap and stop, 7, a tube or section, 5, provided with a perforated base, and a notched flange surrounding said base and carrying wings *h*, and the burner-tip, the perforated base and cap being connected by a  
30 pivot, 2. The perforated cap 3 of the tube *a* and the perforated base 4 of the tube 5 form a cut-off, and when the holes through these parts 3 and 4 are in line with each other the  
35 gas will pass through to the tip, and when the

holes do not coincide the gas is cut off. The surfaces of the parts 3 and 4 are either flat or conical.

Around the tube 5 is a wind-wheel, *h*, the blades of which are either straight, as at 9, or  
40 curved, as at 10, or diagonal, as at 11, for the air to act upon when an attempt is made to blow out the gas.

If the stop 7 is placed so that it is in the middle of the notch when the flame is turned  
45 full on, then the gas will be shut off by the wind-wheel turning in either direction, and it will be nearly impossible to blow without turning the wind-wheel and shutting off the gas. If the blades of the wind-wheel are  
50 curved or conical, as usual in wind-wheels, then the wheel will only be turned in one direction by the wind.

The blades of the wind-wheel may be all alike and of either of the forms set forth or of  
55 any other form adapted to the object.

I claim as my invention—

The combination of the tube *a*, provided with a perforated cap and stop 7, the tube or section 5, provided with the perforated base, 60 and the notched flange surrounding said base and carrying the wings *h* and the burner-tip, the perforated base and cap being connected by the pivot, substantially as specified.

Signed by me this 8th day of September, 65 1886.

JOHN PRENTICE.

Witnesses:

GEO. T. PINCKNEY,  
WILLIAM G. MOTT.