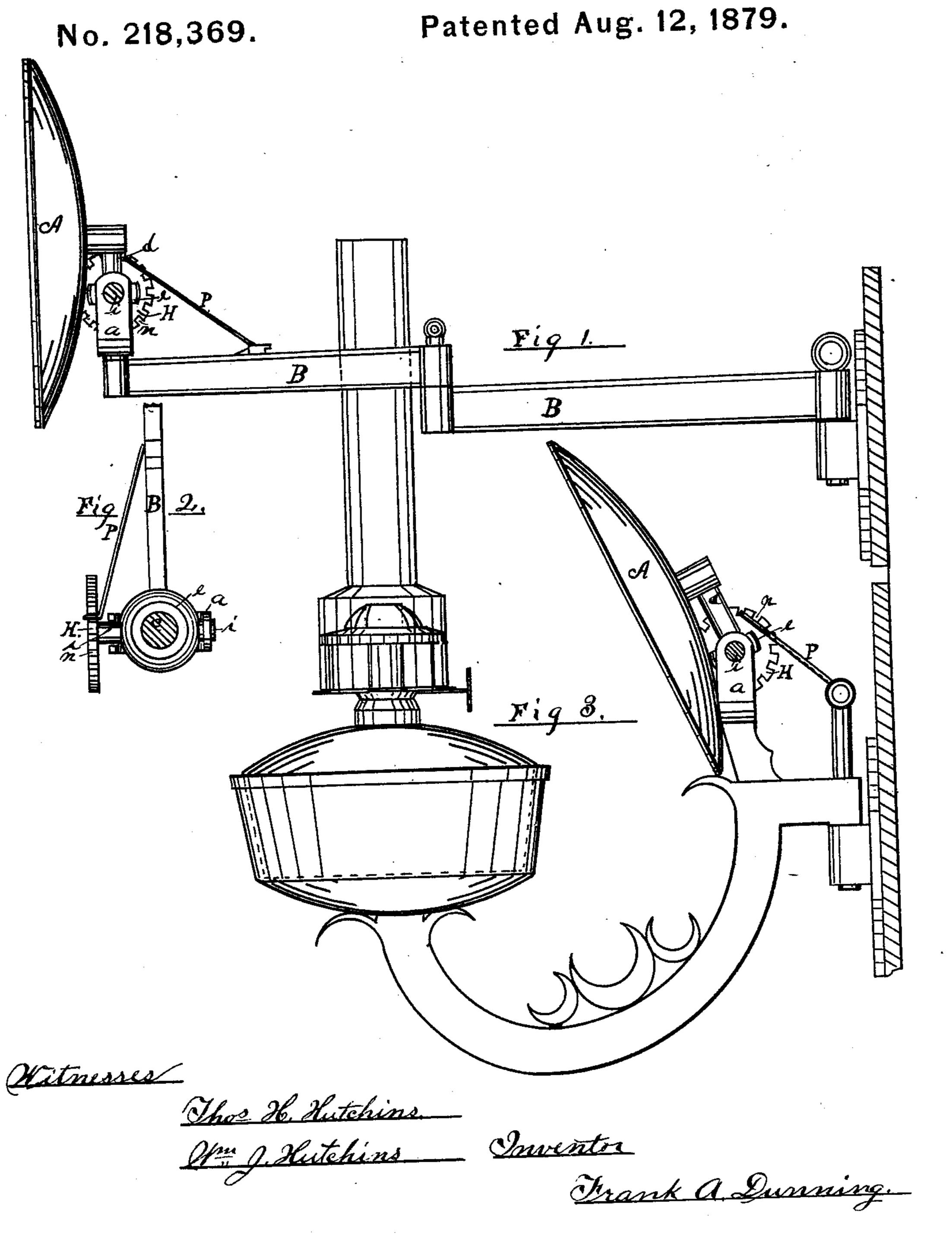
F. A. DUNNING.

Holder for Lamp Reflectors.



UNITED STATES PATENT OFFICE.

FRANK A. DUNNING, OF JOLIET, ILLINOIS.

IMPROVEMENT IN HOLDERS FOR LAMP-REFLECTORS.

Specification forming part of Letters Patent No. 218,369, dated August 12, 1879; application filed March 21, 1879.

To all whom it may concern:

Be it known that I, Frank A. Dunning, of the city of Joliet, Will county, and State of Illinois, have invented certain Improvements in a Holder for a Lamp-Reflector, the construction and operation of which I will proceed to explain, reference being had to the annexed drawings, making a part of this specification, in which—

Figures 1 and 3 are side elevations, and Fig.

2 is a plan view of the top.

The nature of my invention consists in the use of a universal joint to hold the reflector of a lamp, so constructed that the reflected light from a lamp may be cast in any desired direction.

In the drawings, A represents a reflector; d, a shaft, attached to the rear side of the reflector A, and passing through the eye c of the rocking shaft e.

a represents a forked standard, containing the journals i for the rocking shaft e to rest in.

H represents a ratchet-wheel, attached to the end of the rocking shaft e; and P, a spring-pawl, engaging with the ratchet-wheel, one end of which pawl is attached to the arm B, or to a portion of an ordinary lamp-bracket, and the other terminates in a hook, which rests in the notches n of the ratchet-wheel H.

Fig. 1 represents the universal joint, containing a lamp-reflector, attached to the end of an independent flexible arm, B, which may be attached to the side of or near any bracket-lamp, so that a lamp-reflector may be placed on any side of a lamp, and cast the reflected light of a lamp in any desired direction.

Fig. 2 represents the top of the universal joint, showing the manner in which the rocking shaft e is placed in the forked standard a, the manner in which the rocking shaft e is attached to the ratchet-wheel H, and the manner in which the wire or pawl P is placed in the notches n in the ratchet-wheel H.

Fig. 3 represents the universal joint, containing a lamp-reflector and attached to an ordinary lamp-bracket, and showing the manner in which the reflector A may be turned.

It will be observed that, by this construction, the pawl P may be raised, and the ratchet-wheel H turned in either direction, thus causing the rocking shaft e to turn with it, giving an angle to the reflector A, which is attached to the rocking shaft by means of the shaft d, which rests in the eye e of the rocking shaft e. The lamp-reflector A may be turned in the eye e sidewise in either direction.

This universal joint may be used on any

lamp where it is practicable.

Having thus described my invention, what I claim as new, and desire to secure by Let-

ters Patent, is as follows:

The bracket B, provided with the ratchet H, pawl P, rocking shaft e, and forked standard a, to adjust the reflector A, in the manner and for the purpose set forth.

FRANK A. DUNNING.

Witnesses:

Thos. H. Hutchins, Wm. J. Hutchins.