W. E. PRALL.

Reflector for Gas-Burners.

No. 196,765. Patented Nov. 6, 1877.

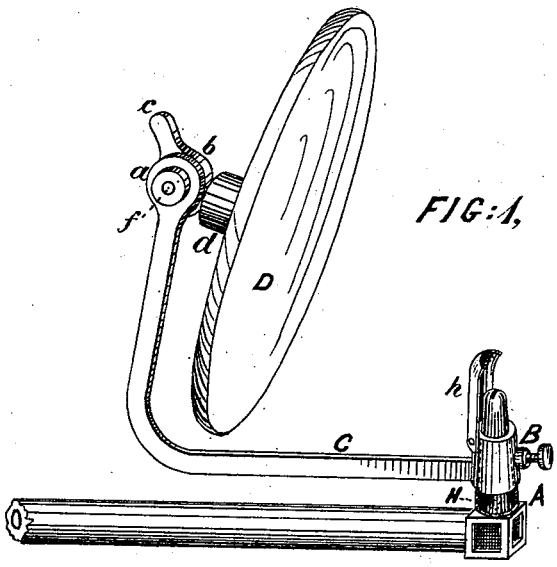

FIG: 1.

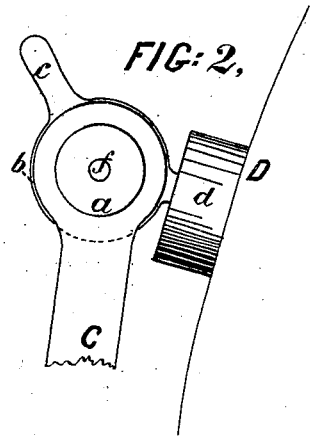

FIG: 2.

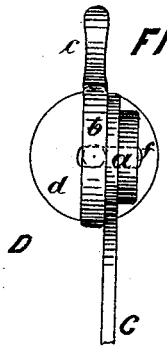

FIG: 3.

Witnesses:

Ernest Abshagen.

Edward Barr.

Inventor;

W. E. Prall.

UNITED STATES PATENT OFFICE.

WILLIAM E. PRALL, OF NEW YORK, N. Y.

IMPROVEMENT IN REFLECTORS FOR GAS-BURNERS.

Specification forming part of Letters Patent No. **196,765**, dated November 6, 1877; application filed October 15, 1877.

To all whom it may concern:

Be it known that I, WM. E. PRALL, of the city, county, and State of New York, have invented certain Improvements in Adjustable Reflectors; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to the combination of an adjustable reflector with a gas-burner, in such manner that said reflector, by two movements—a horizontal revolving and a vertical inclining one—can reflect the light of the gas-burner to which it is connected to any given point in a room.

Figure 1 is a perspective view of a machine embodying my invention. Figs. 2 and 3 are detail drawings, showing those parts which are at the left-hand side of the reflector in Fig. 1.

A is a gas-arm, to which the reflector is attached by slipping the cone B over A, whereby a revolving movement of B and the herewith-attached reflector may be effected. The arm C, connected with B, carries on its upper part *a* the friction-sheave *b*, to which the reflector D is attached by means of the extension *d*. The pin *f* (see Fig. 3) holds both sheaves *a* and *b* to their places.

The sheave *b* has a small handle, *c*, which may be employed to give *b* and the connected reflector D such an inclination as is needed to reflect the light to the desired place.

The shield *h* is fastened to cone B, so as to prevent the flame from striking the glass of reflector D, when the same has been turned so far around the flame that the edge of the latter would be directed toward the glass. The shield *h* will thus always keep the flame from touching the reflector. I also contemplate making cone B square, or attaching it, by a set-screw or other suitable means, tightly to the burner, so that the latter will turn with it, and thus keep the flame always with the flat side toward the reflector, and thereby prevent it from coming against the same, the rubber band H preventing the escape of gas around the joint.

I claim—

1. The combination of the reflector D, friction-sheaves *a* and *b*, arm C, cone B, and shield *h* with burner A, constructed substantially as and for the purpose set forth.

2. In combination with the burner A, the shield *h*, attached to the revolving cone B, substantially as herein described.

3. The combination of the reflector D, shield *h*, and cone *b* with the gas-burner A, so arranged as to have a revolving movement around the flame, as and for the purpose herein described.

4. The combination of the adjustable reflector D and arm C with the burner A, when so attached as to cause them to rotate together in a manner which will keep the flat surface of the gas-flame always toward the reflector, substantially as shown and described.

W. E. PRALL.

Witnesses:

ERNEST ABSHAGEN,

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