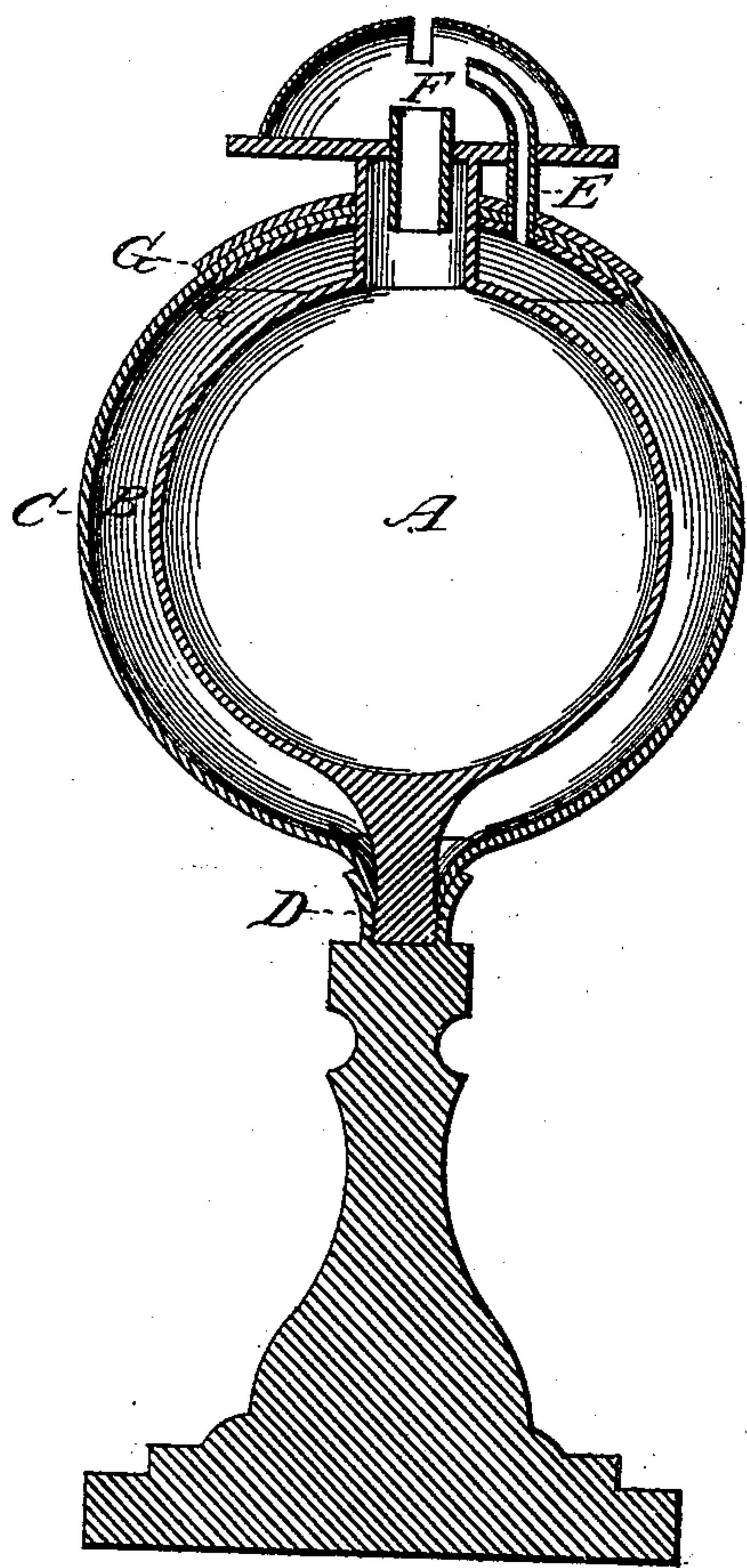


H. F. HILDEBRAND & G. W. CAIN.

Lamp.

No. 211,658.

Patented Jan. 28, 1879.



Attest:

Geo. M. Caffray
L. H. Robinson

Inventors.

Henry F. Hildebrand
Geo W. Cain

UNITED STATES PATENT OFFICE.

HENRY F. HILDEBRAND AND GEORGE W. CAIN, OF BALTIMORE, MD.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **211,658**, dated January 28, 1879; application filed May 29, 1878.

To all whom it may concern:

Be it known that we, HENRY F. HILDEBRAND and GEORGE W. CAIN, of the city and county of Baltimore, and State of Maryland, have invented a new and useful Improvement in Lamps, which improvement is fully set forth in the following specification and accompanying drawing.

The object of our invention is to furnish a means by which coal-oil and other inflammable oils may be burned in lamps with safety from explosion and consequent fire and loss of life and property thereby.

This end is fully accomplished in our invention.

In the drawing, A is a lamp proper. B is an air-space between the outside elastic casing, C, and lamp A. C is an elastic casing of any shape or dimensions. D is a ferrule by which the casing C is held in place around the stem of the lamp. We do not claim any particular manner of fastening the bottom of

casing, as it may be done as is most convenient.

E is an air-tube leading from air-space B to and over the wick-tube F. G G are flanges around collar of lamp, between which the casing C is held in place.

It will be readily seen from this description that any concussion occasioned by a stroke or fall of the lamp expels the air from the air-space B, through the tube E, over the flame, immediately extinguishing the same, thereby preventing any accident from fire or explosion.

What we claim, and desire to secure by Letters Patent of the United States, is—

The combination, with a lamp, of the elastic casing C and the air-tube E, substantially as set forth.

HENRY F. HILDEBRAND.

GEO. W. CAIN.

Witnesses:

GEO. McCaffray,

L. H. ROBINSON.