

H. H. HULBURT.  
Cap for Lamp-Globes.

No. 222,189.

Patented Dec. 2, 1879.

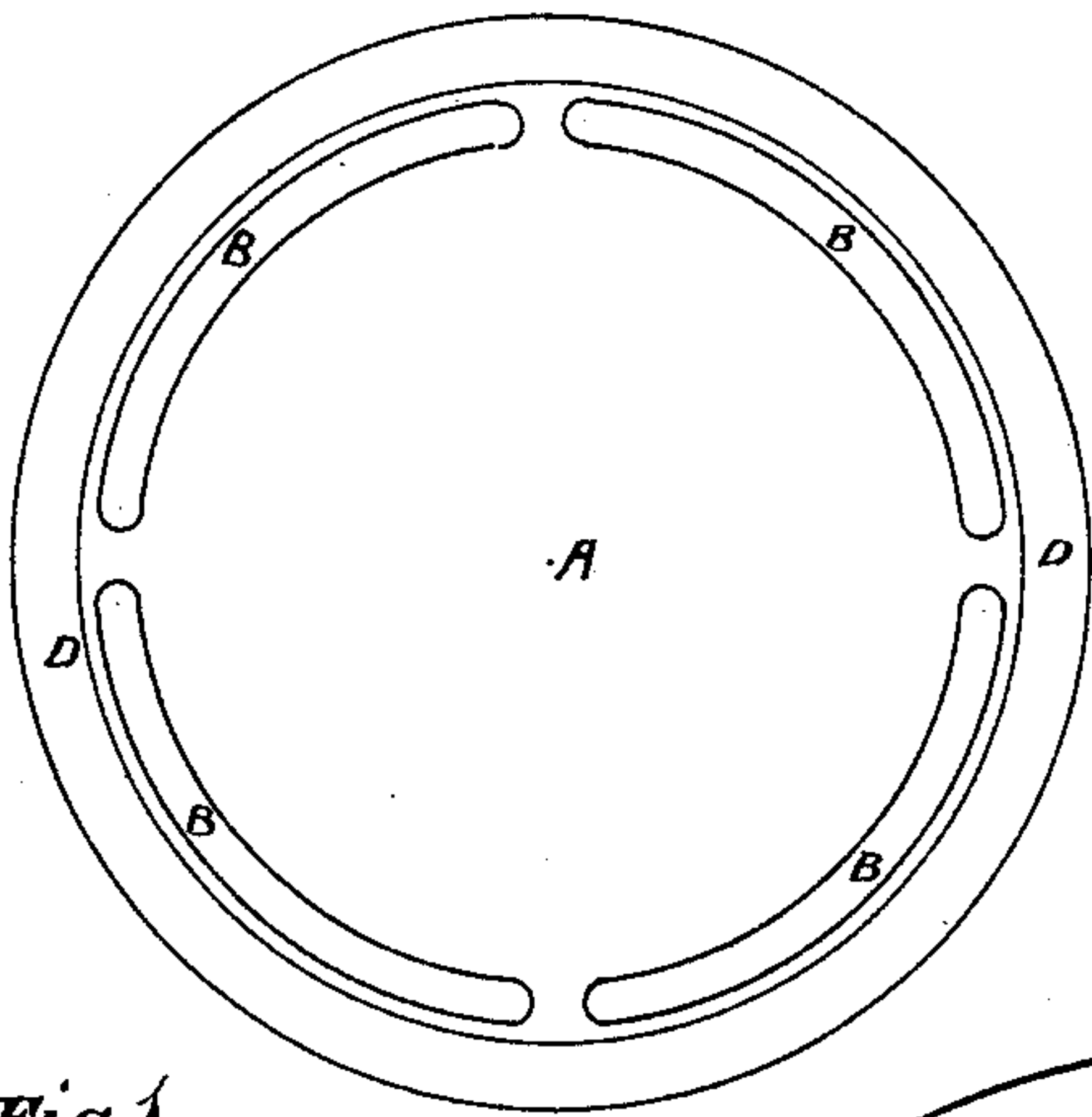


Fig 1.

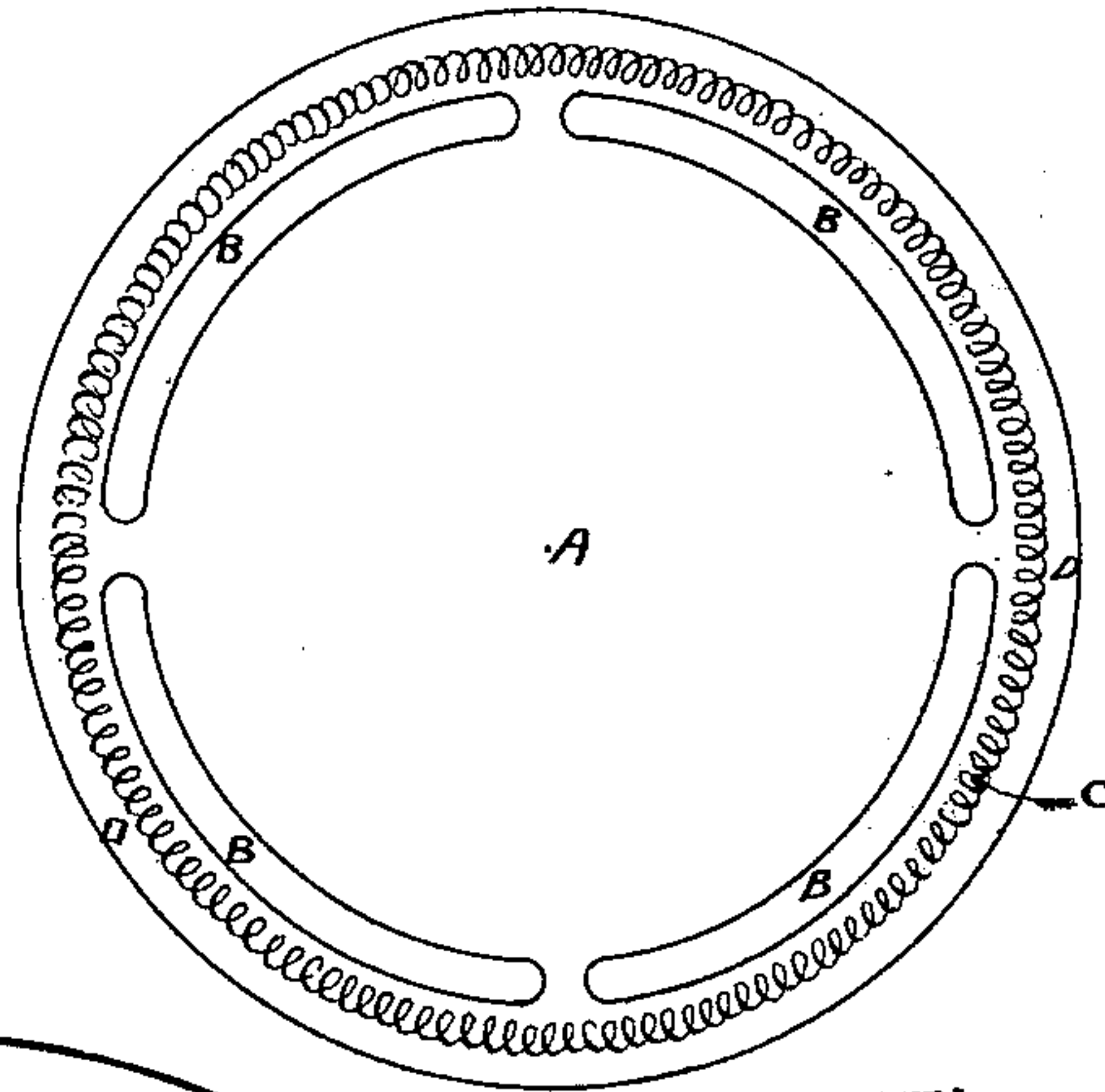


Fig 2

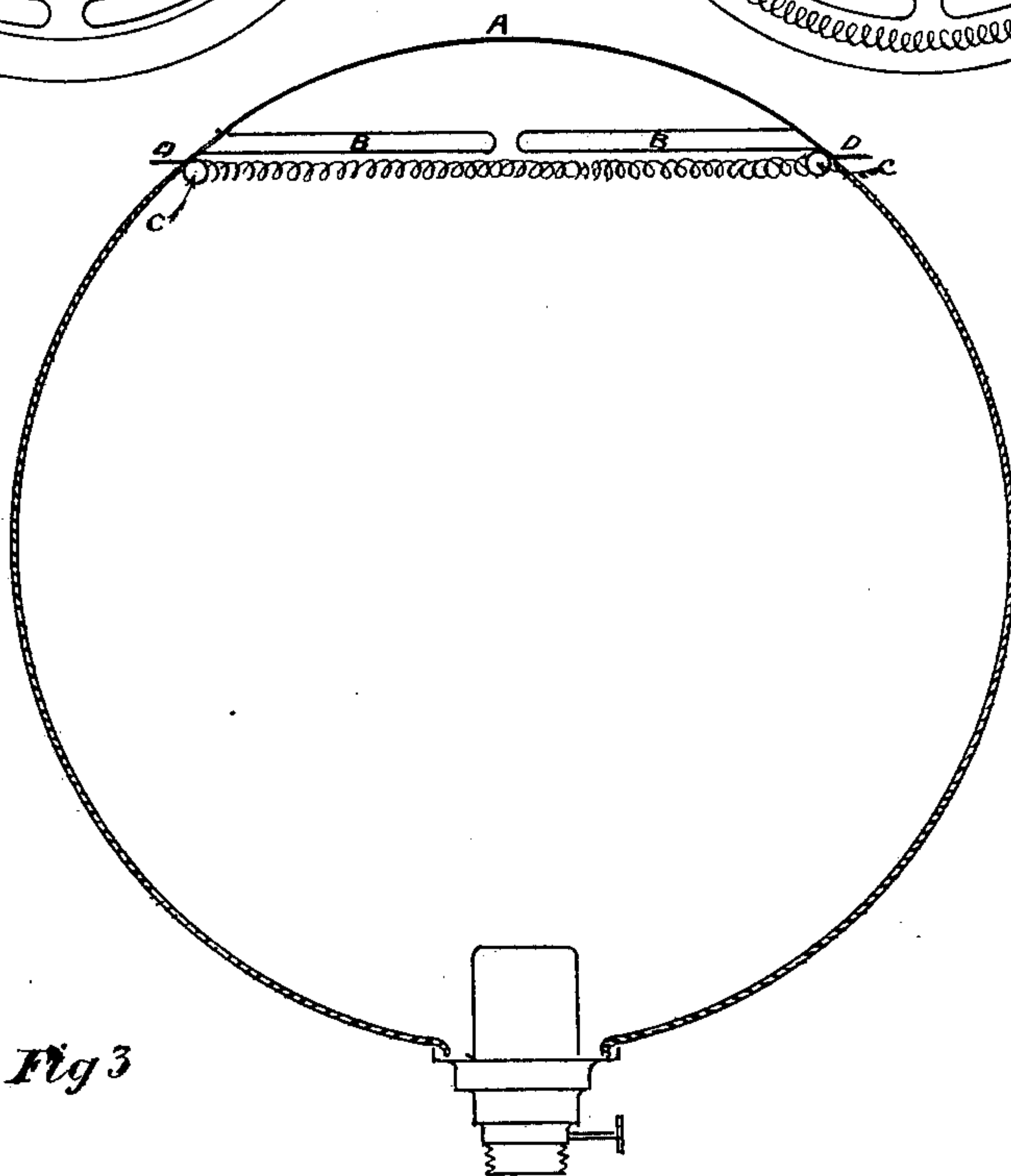


Fig 3

Witnesses

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Inventor

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# UNITED STATES PATENT OFFICE.

HENRY H. HULBURT, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN CAPS FOR LAMP-GLOBES.

Specification forming part of Letters Patent No. **222,189**, dated December 2, 1879; application filed July 31, 1879.

*To all whom it may concern:*

Be it known that I, HENRY H. HULBURT, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Tops for Petroleum Lamp-Globes, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to certain new and useful improvements in the class of metallic caps for glass globes designed to be used in place of chimneys on petroleum-lamps; and the invention consists in a novel construction of cap and means for securing it to globes having different-sized openings at the top, all as will be hereinafter fully described, and specifically pointed out in the claim.

Referring to the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 represents an exterior view of the slotted cap; Fig. 2, an interior view of the same, showing the spiral-spring attachment by which said cap is secured on top of the globe. Fig. 3 is a sectional view of a petroleum lamp-burner with a globe and my improved cap as applied thereto.

In the drawings, A represents the cap, formed from a single piece of sheet metal, provided with a series of elongated slots or openings, B, through it near the outer edge thereof, as clearly shown in Figs. 1 and 2.

D represents the flanged portion of said cap bent to fit closely to the top of the globe, and it may be made so as to come even with outer edge of the globe, or to extend over a short distance, as shown in Fig. 3.

C represents a spiral spring, secured on the under side and near the outer edge of said cap, for the purpose of securing the cap on the globe, it being sprung inside of the globe, as clearly shown in Fig. 3.

The advantage of the spiral spring as a fast-

ener is that the same cap may be used on globes having different-sized openings at the top, the spring adjusting itself to any slight difference in the diameter of the globe, and at the same time avoiding all breaking caused by expansion and contraction of the globe.

As the slotted cap has no opening in the center immediately over the flame, the heated air inside the globe is obstructed in its direct outward passage, reflected back and forced through the slots or openings B, near the edge of the cap, (these being the only openings,) and by this means the flickering and unsteadiness of the flame, caused by any slight disturbance in the outside atmosphere, is completely overcome, and the light under ordinary circumstances is much more brilliant and steady than in globes and chimneys having the draft directly over the flame of the lamp.

I am aware that a metallic disk secured by spring-standards over the top of a globe as a substitute for lamp-chimneys, also a perforated cap for a similar purpose, and also spiral springs for securing lamp-chimneys in position are old, and such I do not wish to be understood as claiming, broadly, as my invention; but

What I claim as my invention is—

The herein-described metallic cap for the globes of petroleum-lamps, having a series of elongated slots or openings, B, near its outer edge, a flange, D, adapted to fit closely over the top of the globe, and a spiral spring, C, secured to the under side near the outer edge of the cap, and adapted to fit inside of globes having different-sized openings at the top for securing the cap thereto, substantially as and for the purpose specified.

HENRY H. HULBURT.

Witnesses:

S. S. DOWNS,  
HENRY CLAY.