

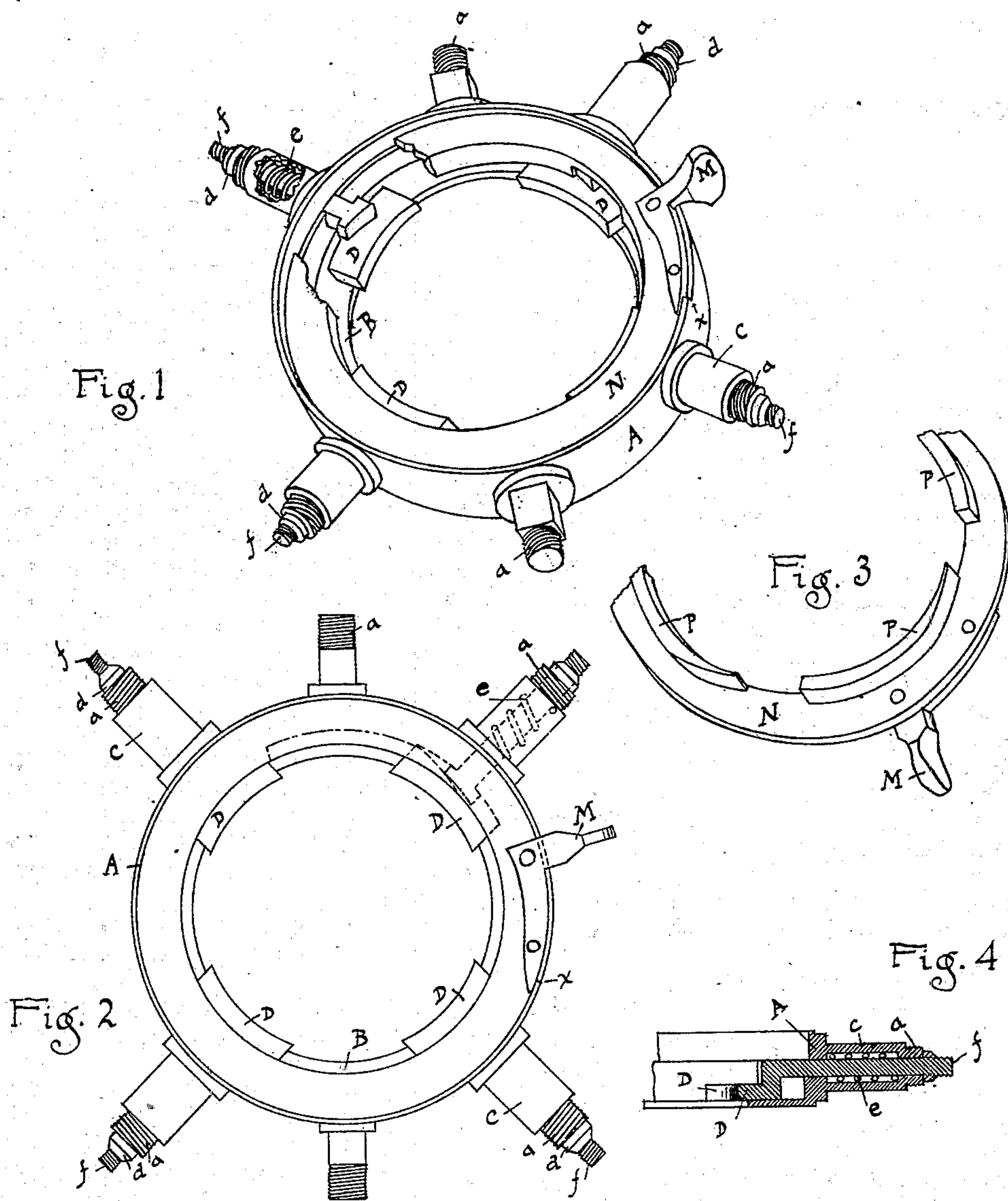
(No Model.)

J. KIRBY, Jr.

COUPLING RING FOR LAMPS.

No. 271,866.

Patented Feb. 6, 1883.



Witnesses:

Alfred O. Elzner  
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# UNITED STATES PATENT OFFICE.

JOHN KIRBY, JR., OF LUDLOW, KENTUCKY, ASSIGNOR TO POST & CO., OF CINCINNATI, OHIO.

## COUPLING-RING FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 271,866, dated February 6, 1883.

Application filed July 11, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN KIRBY, Jr., of Ludlow, Kenton county, Kentucky, have made a new and useful Improvement in Coupling-Rings for Lamps, of which the following is a specification, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a view of coupling and cam-ring in position, exposing one of the clamping spring lugs. Fig. 2 is a plan of same. Fig. 3 is a view of one-half of lower side of cam-ring. Fig. 4 is a section through one of the spring clamping bolts or lugs.

My invention relates to coupling-rings for fastening the reservoir of lamps and the parts attached to it to the other parts of the lamp and to its supporting-brackets, and to that class of coupling devices adapted especially to railway-car lamps; and it consists—

First, in a cast ring, A, having an inside flange, B, projecting from its lower edge, and having bolt-like projections C from its side, whose ends are adapted to be secured to the supporting-brackets. In the drawings these projections have a screw-thread, *a*, cut on them for fastening the ring to the brackets. The diameter of the opening in the flanged ring is sufficient to admit of the insertion of the neck, grooved ring, or other suitable part of the reservoir part of the lamp. The projections C are bored out to admit the shank of the retaining spring lugs D. This shank has a screw-thread, *f*, cut on its outer end, and is secured in its position by a nut, *d*. These retaining-lugs may be pressed back, so that the lug D shall not project farther toward the center than the edge of the flange B when the reservoir part of the lamp is to be inserted into the coupling-ring. This being inserted and the pressure removed, the spring-lugs, actuated by the spiral spring E, engage in a suitable receptacle, usually a grooved ring, and thus hold the lamp in place.

Second, in a cam-ring, N, by which the spring-lugs of the coupling-ring are moved

back to admit the reservoir. This ring has cams P P P on its lower face, and a thumb-piece, M, by which it is moved. This thumb-piece rests on and plays back and forward in a notch, X, cut out of the side of the cast ring A. The operation of the cam-ring is as follows: In its first position the cams rest on the flange B, with their curved points on the sides of shanks or spring-lugs D. These shanks are also curved for the better working of the cams. The upper surface of the cam-ring is smooth and fits easily into the coupling-ring, and is of sufficient width to allow of covering the cams. In this position the thumb-piece is at one extremity of the notch in the side of the coupling-ring. Now, to insert the reservoir part of the lamp the cam-ring is, by means of the thumb-piece, made to rotate inside the cast ring until the lugs are forced by the cams far enough back to admit of the insertion of the reservoir. The thumb-piece is now at the other extremity of the notch X. To hold the reservoir in place the cam-ring is rotated to its first position and the springs force the lugs beyond the edge of the flange and into any suitable receptacle on the reservoir.

I am aware that coupling-rings are in common use, and do not claim a coupling-ring, broadly.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows:

1. A coupling-ring for lamps having spring-lugs and radial guides therefor, the said lugs being adapted to engage with the lamp-reservoir to support it within the ring, as set forth.

2. In a coupling-ring for lamps, the combination of a cast ring having radially-moving retaining-lugs attached thereto, and a cam-ring, substantially as described.

The foregoing specification of my invention signed by me this 7th day of July, A. D. 1882.

JOHN KIRBY, JR.

Witnesses:

RICHARD L. AYER,  
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