

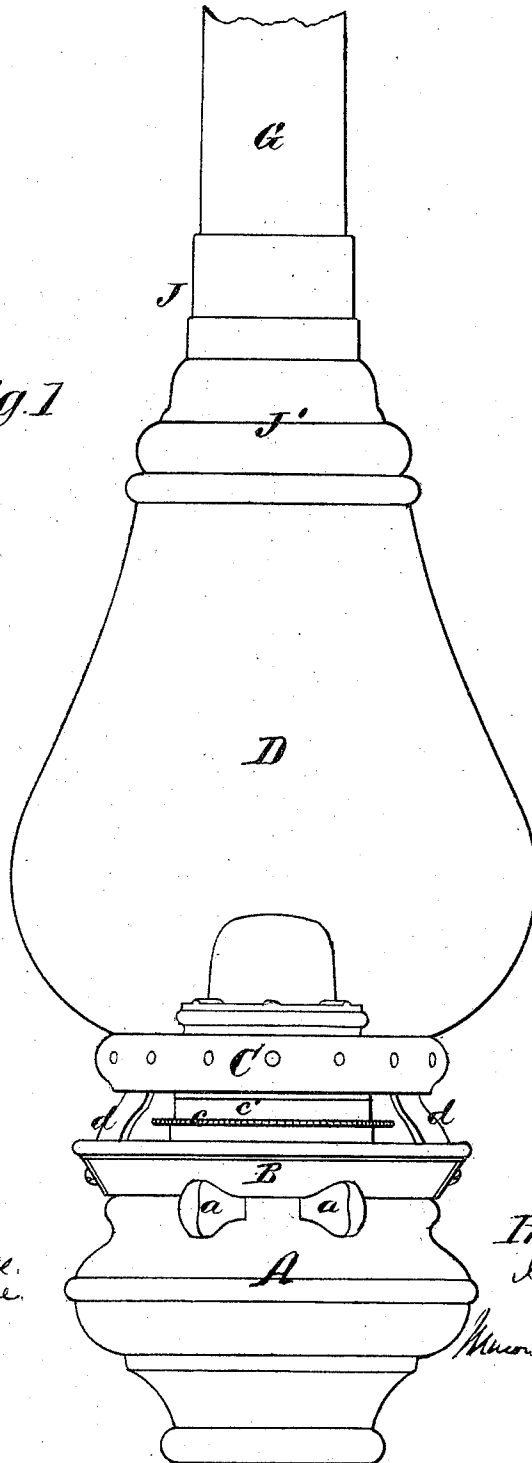
J. E. CROSS.
Car-Lamps.

2 Sheets--Sheet 1.

No. 141,856.

Patented August 19, 1873.

Fig. 1



Witnesses,
R. T. Campbell,
J. A. Campbell.

Inventor
Jas. E. Cross
by

Miner, Lewis & Co. Attorneys

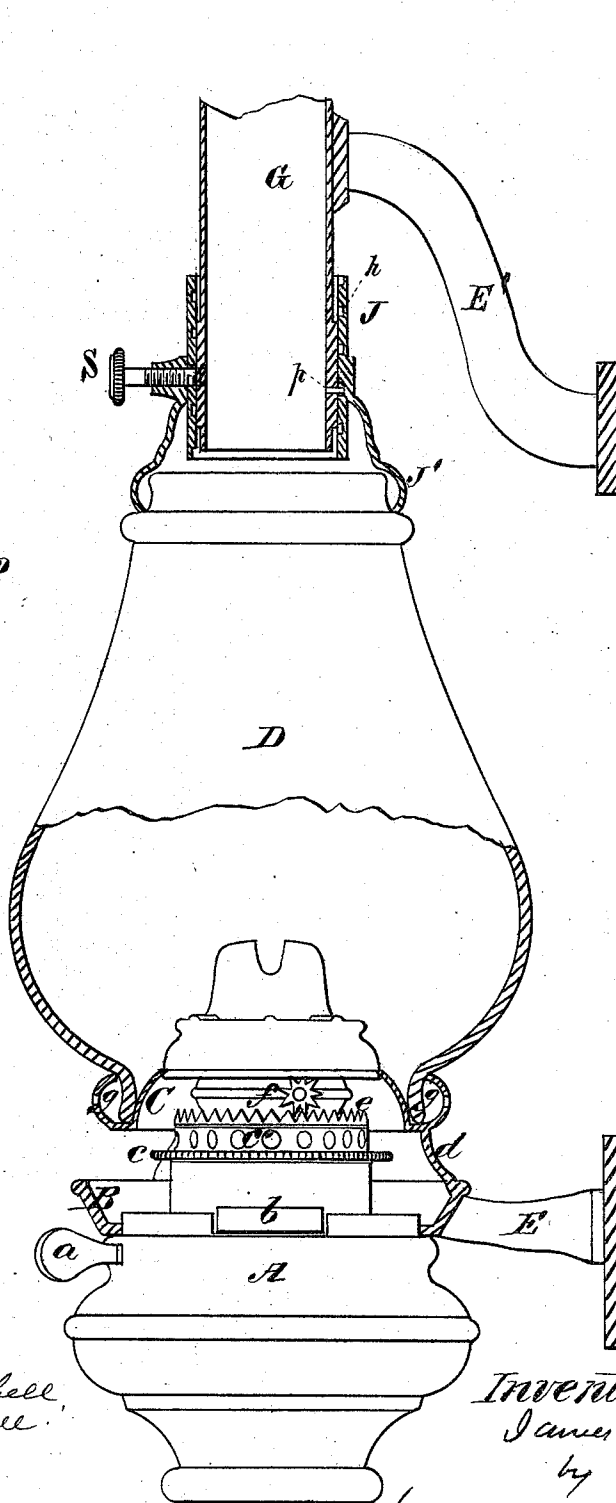
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Fig. 2



Witnesses.
R. T. Campbell.
J. H. Campbell.

Inventor
James E. Cross
by
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UNITED STATES PATENT OFFICE.

JAMES E. CROSS, OF ADRIAN, MICHIGAN.

IMPROVEMENT IN CAR-LAMPS.

Specification forming part of Letters Patent No. **141,856**, dated August 19, 1873; application filed June 7, 1873.

To all whom it may concern:

Be it known that I, JAMES E. CROSS, of Adrian, in the county of Lenawee and State of Michigan, have invented an Improved Car-Lamp; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1, Plate 1, is a front view of my improved lamp. Fig. 2, Plate 2, is a side sectional view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

This invention has for its object the improvement of car-lamps by the employment of an open supporting-bracket for the lamp and globe which will allow access to a wick-adjusting device without removing the lamp from its support.

In the accompanying drawings, A represents the body of a lamp, and *a* finger-pieces for retracting the spring-catches *b*. The adjusting device for the wick consists of a milled circular flange, *c*, which, with its portion, *c'*, and an annular toothed portion, *e*, can be freely rotated, which rotation is communicated to a spur-wheel, *f*, on the stem of the wick-adjusting spurs. These parts above described are common and well known in car-lamps, and are not herein claimed. B repre-

sents an annular bracket-support, which is held by arms E, and to which the lamp-body A is attached by means of the catches *b*. At a proper height above this bracket-support B, and connected to it, are standards *dd* in an annular gallery, C, which is constructed with an annular recess, *g*, for receiving the bottom collar of a glass globe, D, as shown in Fig. 2. The space between the rings B and C should be sufficient to allow a person to introduce his fingers and turn the milled flange *c*, thus adjusting the wick.

I do not confine myself to the particular wick-adjusting device, as any well-known adjusting device may be used with my open lamp and globe-bracket.

The tube G is secured rigidly to a bracket-arm, E', and a sufficient space is left between its lower end and the gallery C for allowing the globe D to be adjusted in proper position on the said gallery.

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

An open globe and lamp supporting bracket, B C, for allowing access through it to a wick-adjusting device, substantially as described.

JAMES E. CROSS.

Witnesses:

WILLARD STEARNS,
J. W. DONOVAN.