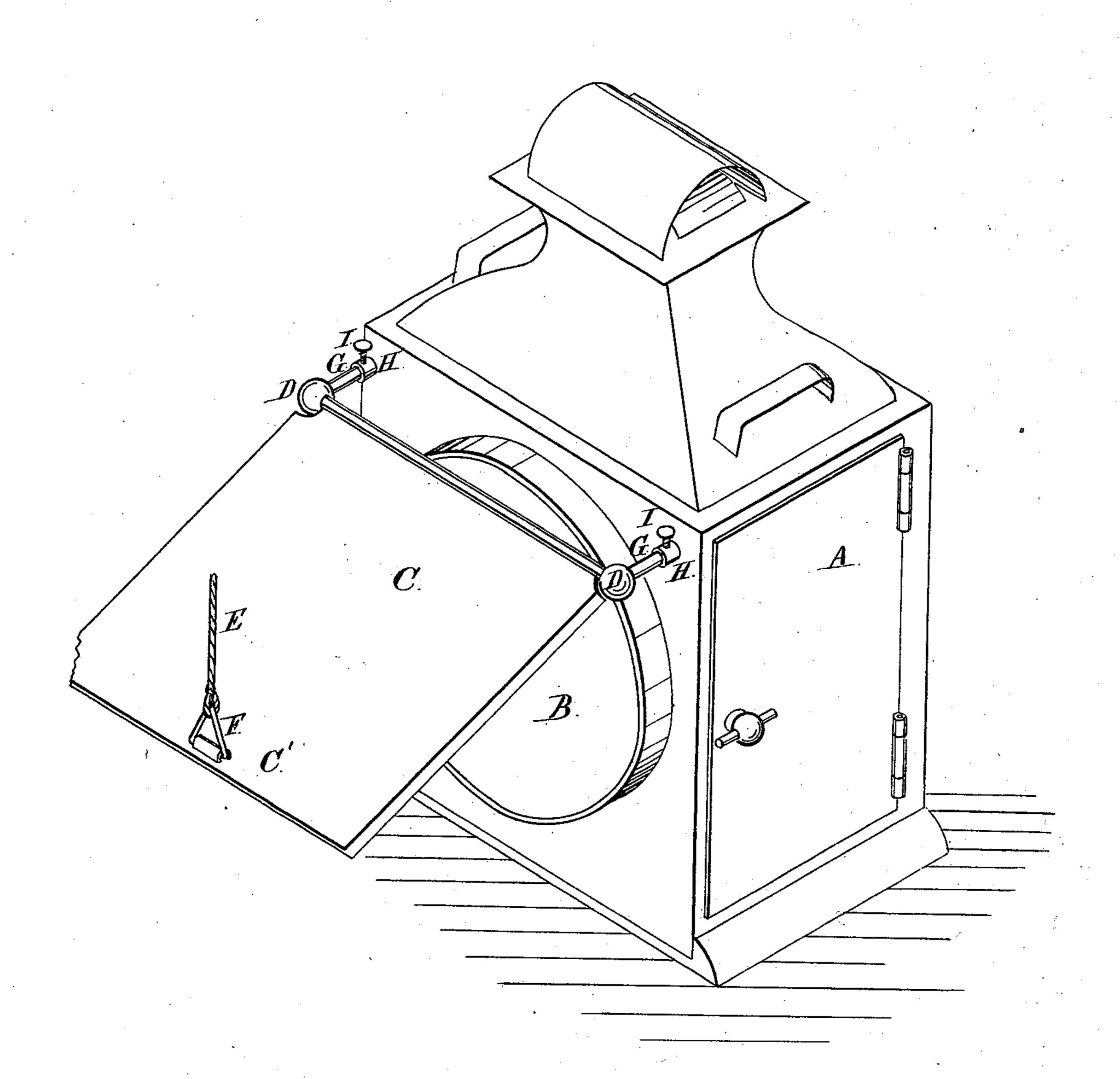
J. HIRTH. Head-Light.

No. 227,628.

Patented May 18, 1880.



WITNESSES:

Geo. H. Tright. Walter Allen INVENTOR:

Joseph Wirth By Knight Bro.

United States Patent Office.

JOSEPH HIRTH, OF ST. LOUIS, MISSOURI.

HEAD-LIGHT.

SPECIFICATION forming part of Letters Patent No. 227,628, dated May 18, 188C.

Application filed February 9, 1880.

To all whom it may concern:

Be it known that I, Joseph Hirth, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Head-Lights, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing,

My improvement consists in combining with a locomotive head-light a deflector hinged to the front of said head-light upon horizontally-adjustable rods sliding in suitable sockets attached to the head-light, and secured in position by means of set-screws working in said sockets, said deflector being raised and lowered by means of a cord or wire attached at one end to the free end of the deflector, its other end extending back to the point most convenient for operating the de-

The drawing is a perspective view of my

improvement.

A shows an ordinary head-light, which is too well known to need any special description. B is the glass face through which the light shines. C is a deflector, of glass or metal, the former preferred, which is connected to the head-light by hinges D D, so that the free edge C' of the deflector may be raised

or lowered to deflect the light to any place required.

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As a means for adjustment and support of the deflector in any position I have shown a cord or wire. E, extending upward from a loop, F, at the free edge of the deflector.

The cord may be carried over a pulley and descend to any point within easy reach, or may ascend direct to any such point.

I support the hinges D at the ends of rods G, adjustable in sockets H H and held in 40 position by set-screws I I.

This construction enlarges the scope of the deflector, for by drawing out the hinges some distance from the face B the light may be deflected at a distance farther back than could 45 be otherwise done.

I claim as my invention—

• The combination, with the head-light A, of the deflector C, hinged to the horizontally-adjustable rods G, working in bearings in the 50 case, suitable means for securing said rods in their bearings, and a cord or wire for raising and lowering said deflector, substantially as set forth.

JOSEPH HIRTH.

Witnesses:

SAML. KNIGHT, JOSEPH RUFF.