

G. E. BRYANT & L. KELL.

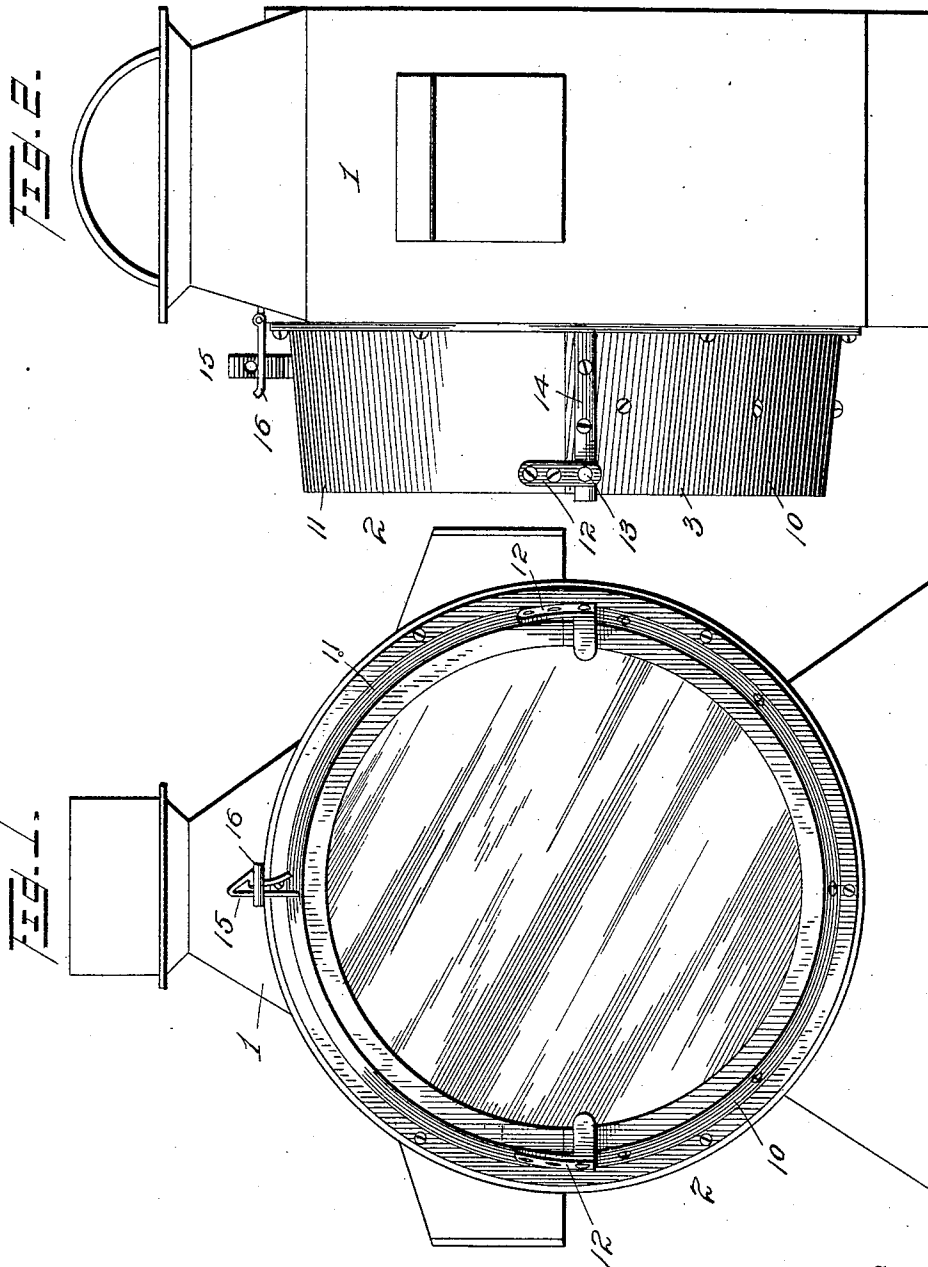
GLASS HOLDING ATTACHMENT FOR HEADLIGHTS.

APPLICATION FILED JUNE 24, 1911. RENEWED AUG. 2, 1912.

1,050,335.

Patented Jan. 14, 1913.

2 SHEETS-SHEET 1.



Witnesses

John Duffie
H. E. Fort

Inventor

George E. Bryant
Landon Kell

By

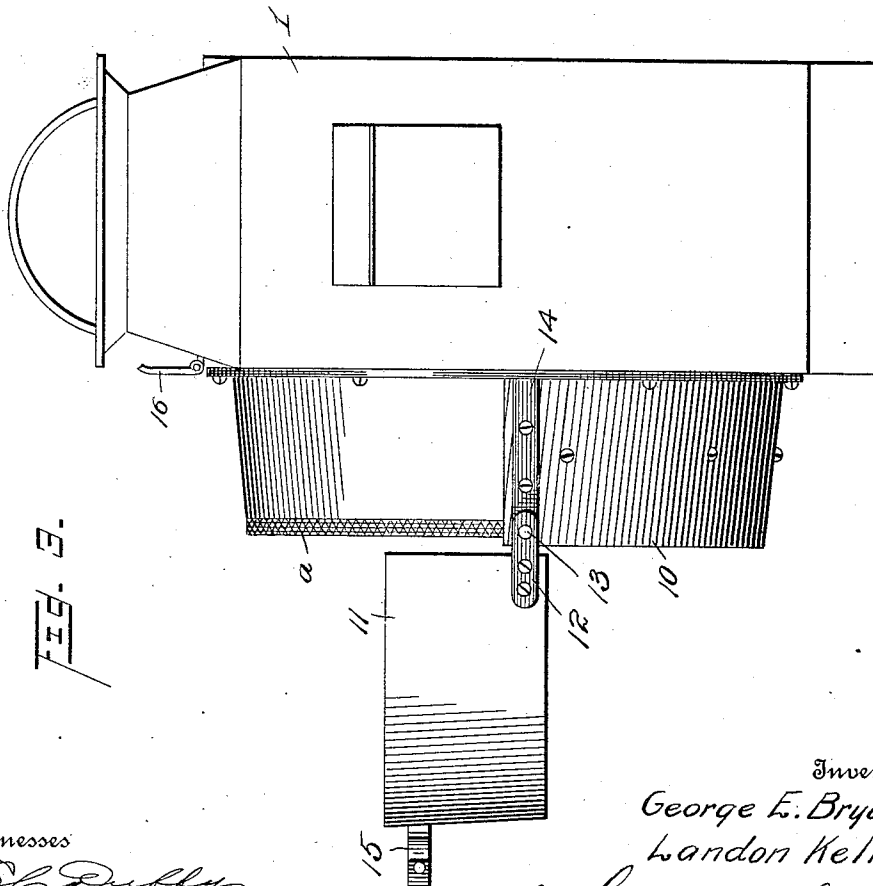
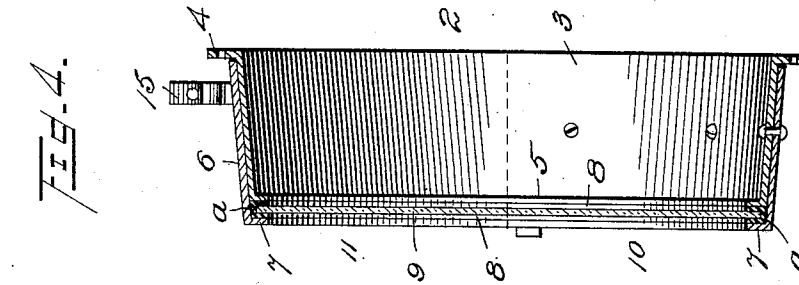
John Duffie
Attorney

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W. E. Duffie
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Inventor
George E. Bryant
Landon Kell

By *John R. Duffie*
Attorney

UNITED STATES PATENT OFFICE

GEORGE E. BRYANT, OF EVANSVILLE, AND LONDON KELL, OF PRINCETON, INDIANA;
SAID KELL ASSIGNOR TO SAID BRYANT.

GLASS-HOLDING ATTACHMENT FOR HEADLIGHTS.

1,050,335.

Specification of Letters Patent.

Patented Jan. 14, 1913.

Application filed June 24, 1911, Serial No. 635,062. Renewed August 2, 1912. Serial No. 713,002.

To all whom it may concern:

Be it known that we, GEORGE E. BRYANT and LONDON KELL, citizens of the United States, residing at Evansville and Princeton, respectively, in the State of Indiana, have invented certain new and useful Improvements in Glass-Holding Attachments for Headlights, of which the following is a specification.

This invention relates to improvements in headlights for locomotives, and refers more particularly to a glass holding attachment for the headlight, by means of which a broken glass may be easily and quickly removed and replaced by a new glass, while the engine is in motion.

With the foregoing and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts illustrated in the drawings and more particularly pointed out in the appended claims.

In the accompanying drawings:—Figure 1 is a front elevation of a locomotive headlight with the glass holding attachment applied. Fig. 2 is a side elevation of Fig. 1. Fig. 3 is a similar view with the upper section of the outer cylinder of the attachment lowered. Fig. 4 is a sectional view of the attachment.

Referring to the drawings for a more particular description of the invention, 1 indicates the headlight, and 2 the glass holding attachment, as a whole. The attachment comprises an inner cylinder 3 of metal or other suitable material which may be slightly flared as shown, and is provided at its inner edge with the annular outwardly extended attaching rim or flange 4 riveted or otherwise secured to the headlight frame 1. The outer edge of the inner cylinder is provided with the inwardly extending annular rim 5, the purpose of which will be hereinafter disclosed.

The attachment further comprises an outer cylinder 6 which snugly fits the exterior of the inner cylinder and is provided at its outer edge with the inwardly extending annular rim 7, leaving an annular space 8 between the two rims for the reception of a packing ring of asbestos for receiving the edge of the glass 9. This packing ring takes up any jar and renders the casing impervious to moisture or circulation of air. The packing strip being made of asbestos

will likewise stand the heat. The outer cylinder comprises the bottom section 10 which is riveted or otherwise secured to the corresponding half of the inner ring and the hinged upper section 11. Said section 11 is attached to the bearing arms 12 which are pivoted, as at 13, to the brackets 14, attached to the bottom section 10. The hinged section 11 is provided at its top with the spring hasp or catch 15, engageable by the latch 16 pivoted to the headlight frame, whereby said section may be held closed.

In practice, should the glass 9 become broken through any cause, it may be readily and quickly removed and replaced by a new glass by swinging the hinged section 11 of the outer cylinder open as shown in Fig. 3, and lifting the packing ring with the glass from the attachment, bodily. A new glass is then secured in place, and the hinged section 11 again closed.

It is thought that the great merit and advantage of this attachment will be readily understood by those skilled in the art to which the present invention appertains. In this connection however, it will be said that under present conditions the glasses are frequently broken by storm, jarring and overheating, and it is necessary for the engineer to run his engine in the dark until the terminus is reached, thus being in danger of accident, and endangering the lives of others.

It has been impossible heretofore to replace a broken glass in a reasonable length of time without causing unnecessary delay, but by means of our attachment, or what might be termed a new safety goggle, the engineer is able to replace a broken glass in a moment of time even while the engine is in motion.

Various changes in the form, proportions and minor details of construction may be resorted to without departing from the principles or sacrificing any of the advantages of the invention as defined in the appended claims.

Having described our invention what we claim as new and desire to secure by Letters Patent, is:—

1. A glass holding attachment of the class described comprising an inner cylinder attached to the headlight frame, an outer cylinder comprising a lower stationary section and an upper section hinged to swing

in a vertical plane from a horizontal open position to a vertical closed position or vice-versa, an annular packing strip removably secured between the inner and outer cylinders for receiving the edge of the glass, and a latch device for normally holding the hinged section of the outer cylinder closed.

2. A glass holding attachment of the class described comprising an inner cylinder attached to the headlight frame, an outer cylinder comprising a bottom section secured to the inner cylinder and an upper section hinged to swing in a vertical plane from a closed vertical position to a horizontal open position, or vice-versa, inwardly extending annular rims formed at the outer edges of the inner and outer cylinders, leaving an annular space there-between, a packing ring of asbestos positioned in said space to receive the edge of the glass and a latch device for normally holding the hinged section of the outer cylinder closed, the packing strip and glass being removable by lifting the same bodily from position with the hinged section of the outer cylinder open.

3. A glass holding attachment for locomotive headlights comprising an inner cylinder provided at its inner edge with an annular attaching flange and at its outer edge with an inwardly extending rim, an outer cylinder snugly fitting the exterior of the inner cylinder and comprising a bottom stationary section secured to the inner cylinder and an upper section hinged to swing from a vertical closed position to a horizontal open position or vice-versa, said outer cylinder provided at its outer edge with an inwardly extending annular rim, leaving an annular space between the rims of the cylinders, an asbestos packing strip arranged in said space for receiving the outer edge of the glass and a latch device for normally holding the hinged section of the outer cylinder closed.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE E. BRYANT.
LONDON KELL.

Witnesses:

JAMES B. GAMBLE,
MARSHAL N. WOODS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."