

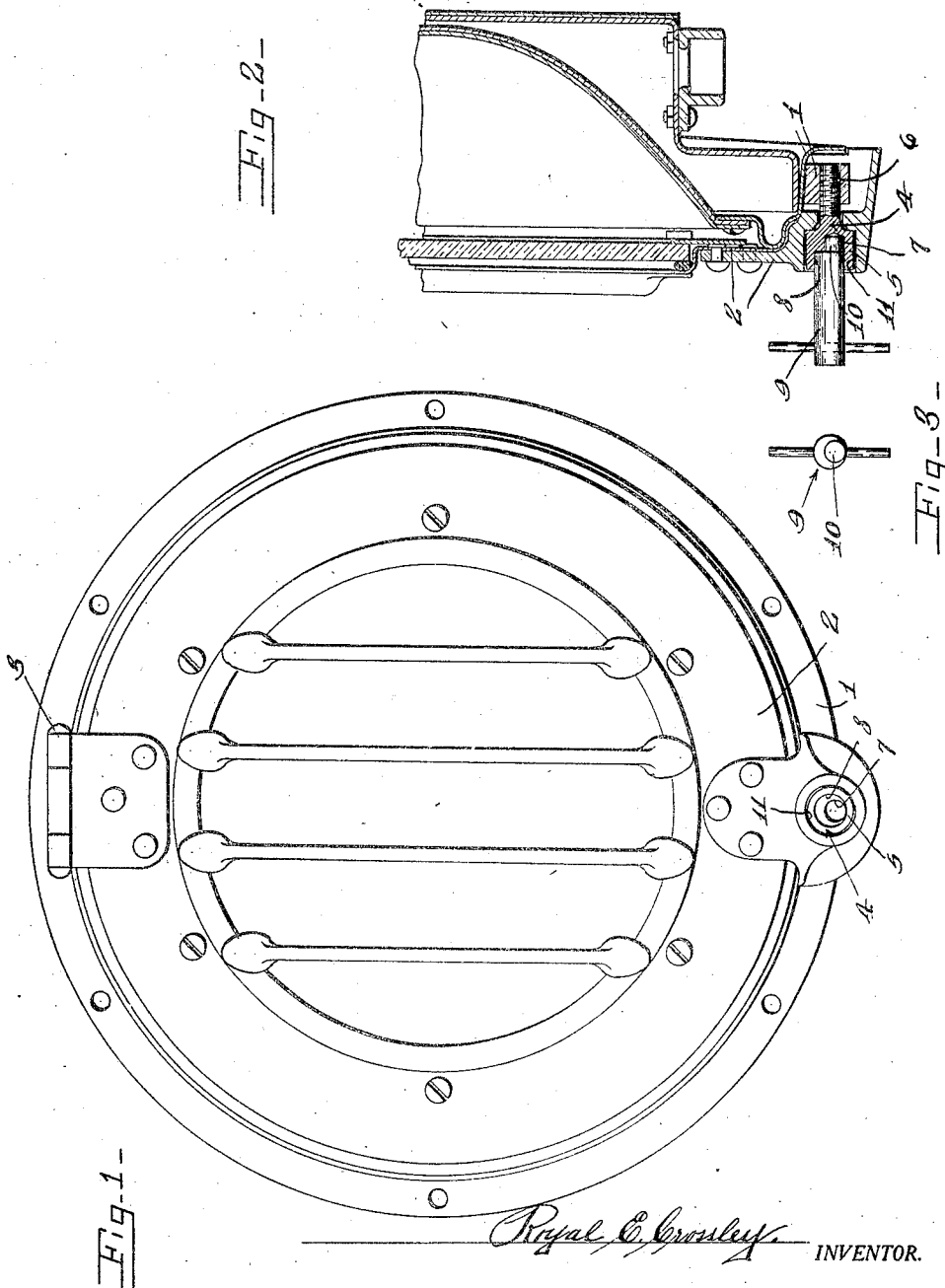
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R. E. CROSSLEY

1,571,574

LOCK

Filed Dec. 4, 1923



Royal E. Crossley INVENTOR.

BY

Sarsons & Bodell ATTORNEYS.

UNITED STATES PATENT OFFICE.

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LOCK.

Application filed December 4, 1923. Serial No. 678,530.

To all whom it may concern:

Be it known that I, ROYAL E. CROSSLEY, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Lock, of which the following is a specification.

This invention has for its object a particularly simple and efficient locking means for holding two parts together as a box and cover therefor, or, more particularly, the door of the headlight to the body or casing of the headlight, to prevent tampering with the light by curious persons or theft of the lamp.

The invention consists in the novel features and in the combinations and constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings in which like characters designate corresponding parts in all the views.

Figure 1 is a face view of the headlight showing this lock in front end elevation.

Figure 2 is a fragmentary, vertical, sectional view thereof, the key being also shown.

Figure 3 is an end view of the key.

1 and 2 designate, respectively, parts to be fastened together as the body or casing of the headlight and the door hinged at 3 thereto.

The lock comprises a rotatable member having a head and an axial shank extending through the parts 1, 2 provided with means for interlocking with the innermost part 1 and unlocking therefrom upon the turning of the locking member, the head being formed with a socket arranged eccentrically relatively to the axis of the shank and opening through the end face of the head or exposed at the outer end of the head. The key or wrench for the lock has an eccentric pin at one end for entering the socket and end surfaces for engaging the surface of the head around the socket.

The head is, also, provided with a guide for engaging a key and keeping it centered during the turning of the key, while its eccentric pin is acting in the eccentric socket to turn the locking member.

4 designates a locking member having a head 5 and an axial shank, the shank extending through the margin of the door 2

through the contiguous part of the case 1 and interlocking with the case 1, it being here shown, as having its inner end threaded at 6 and turning into the threaded hole in the case 1.

7 is the eccentric socket in the head and 8 is a cylindrical countersink in the head and opening through the outer end face thereof, the countersink being substantially concentric with the axis of the shank, this countersink forms a guide for holding the key centered in line with the axis of the locking member.

9 is the key which comprises a cylindrical body having an eccentric pin 10 at one end for entering the socket 7, the cylindrical body substantially fitting the countersink 8, so that, when the key is turned with an eccentric pin in the socket, the key is held centered with the shank by the countersink. Preferably, in order to prevent the turning of the locking member or to render the turning thereof extremely difficult, except with the proper key, the door 2 is provided with a recess 11 inclosing the head 5.

Owing to the eccentric socket and cylindrical guide or countersink, the head can be formed cylindrical and housed in a cylindrical recess making it inaccessible, except with a proper key and the key guided in its turning movement by the cylindrical countersink.

This lock is particularly advantageous in that it is particularly economical in construction, highly efficient in operation and can be readily formed from stock material.

What I claim is:

1. A lock for holding two parts together comprising a rotatable member having a head and axial shank extending through said parts and provided with means for interlocking therewith and unlocking therefrom upon the turning of said member, the head being formed with a socket and countersink concentric with the axis of the shank, the socket opening eccentrically through the bottom of the countersink, in combination with a key having a cylindrical body substantially fitting the countersink and an eccentric pin for entering said socket.

2. The combination of two separable parts, a lock for holding said two parts together comprising a rotatable member having a head and axial shank extending

through said parts and provided with means for interlocking therewith and unlocking therefrom upon the turning of said member, the head being formed with a socket and a
5 countersink concentric with the axis of the shank, the socket opening eccentrically through the bottom of the countersink, and a key having a cylindrical body substantially fitting the countersink and an eccentric
10 pin for entering said socket, one of said parts having a recess enclosing the head.

3. A lock for holding two parts together comprising a rotatable member having a head and an axial threaded shank extending through said parts and threading into one of said parts, the head being formed with a socket and a countersink concentric with the axis of the shank, the socket opening eccentrically through the bottom of the
15 countersink, in combination with a key having a cylindrical body substantially fitting

the countersink and an eccentric pin for entering the socket.

4. The combination of two separable parts, a lock for holding said two parts together comprising a rotatable member having a head and an axial threaded shank extending through said parts and threading into one of said parts, the head being formed with a socket and a countersink concentric with the axis of the shank, the socket opening eccentrically through the bottom of the countersink, and a key having a cylindrical body substantially fitting the countersink and an eccentric pin for entering the socket, one of said parts being formed with a recess enclosing the head.
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In testimony whereof, I have hereunto signed my name at Syracuse, in the county of Onondaga, and State of New York, this
19th day of October, 1923.

ROYAL E. CROSSLEY.