(Model.)

E. A. GAUCHET.

LOCK FOR SLIDING DOORS.

No. 262,397. Patented Aug. 8, 1882.

fig. 1

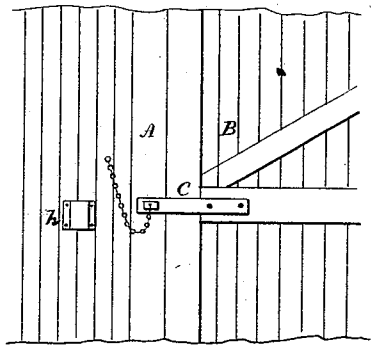


fig. 2

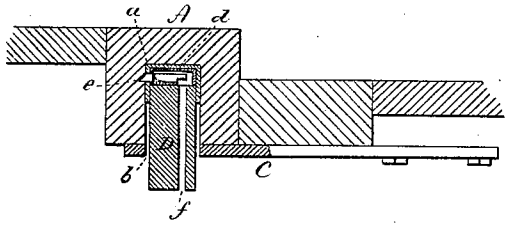
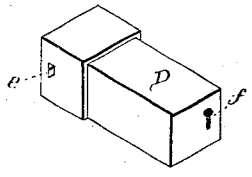


fig. 3



Witnesses.
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UNITED STATES PATENT OFFICE.

EDWARD A. GAUCHET, OF FAIR HAVEN, CONNECTICUT.

LOCK FOR SLIDING DOORS.

SPECIFICATION forming part of Letters Patent No. 262,397, dated August 8, 1882.

Application filed May 1, 1882. (Model.)

To all whom it may concern:

Be it known that I, EDWARD A. GAUCHET, of Fair Haven, in the county of New Haven and State of Connecticut, have invented new Improvements in Locks for Sliding Doors; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, the invention as applied to a car-door; Fig. 2, transverse section enlarged; Fig. 3, the bolt detached, enlarged.

This invention relates to an improvement in devices for securing the doors of railway freight-cars, the object being a lock which will be secure, is easily applied, and not liable to get out of order; and it consists in a socket arranged in the post at right angles to the door and opening outward, and a bar on the door to extend over the socket, with an eye therein corresponding to the socket, combined with a bolt fitted to be inserted through the eye in the door bar into the socket, and provided with a locking device to engage with said socket to hold the bolt therein, and so that its end projecting through the bar serves to lock the door in its closed position.

A represents the door-post; B, the door; C, the locking-bar, which projects from the door so as to pass over the post. Into the post a socket, *a*, is fitted, opening outward through the post, and in the bar C a corresponding eye or opening, *b*, is formed.

D is the locking-bolt. (Shown detached in Fig. 3.) In shape it corresponds to the socket and eye through the bar, and so as to be readily inserted through the eye or opening in the bar into the socket, as seen in Fig. 2. At its inner end the bolt is provided with a lock mechanism, *d*, preferably with a spring bevel-nose latch-bolt, *e*, and with a key-hole, *f*, extending outward through the bolt D, as seen in Fig. 2, and through which a key may be inserted to throw or withdraw the bolt.

The door is closed to bring the opening in the bar C over the socket in the door-post. Then the bolt D is introduced, the lock end first, and pressed inward until it comes to the locking position. Then the spring-bolt will be forced forward to engage a corresponding notch in the socket; or it may be a lock-bolt, which in the same position may be turned by a key introduced through the key-hole *f*. The outer end of the bolt projects through the bar, as seen in Fig. 2, so as to hold the bar and the door to which it is attached in the closed position, and until the bolt is unlocked and removed.

This device for locking is simple and convenient, cheap in its construction, easily understood, and may be readily sealed by simply placing a seal over the key-hole, so as to serve as a seal-lock.

The bolt D may be hung to the car, as seen in Fig. 1, and a holder, *h*, applied to the side of the car, into which it may be placed when not required for use.

While this locking device is made with special reference to freight-cars, it may be used on other sliding doors—as stable-doors—or wherever a locking-bar can be conveniently applied to the door so as to extend over the door-post.

I claim—

The combination of the socket *a*, arranged in the door-post, and the bar C, attached to the door, extending over the door-post, and constructed with an eye corresponding to the socket, with the removable bolt D, constructed to be introduced through the eye in the bar into the socket, and a locking mechanism within said bolt to engage with the socket when so introduced, substantially as described.

EDWARD A. GAUCHET.

Witnesses:
JOS. C. EARLE,
J. H. SHUMWAY.