

C. LOVELY.
 HASP FASTENER.
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938,257.

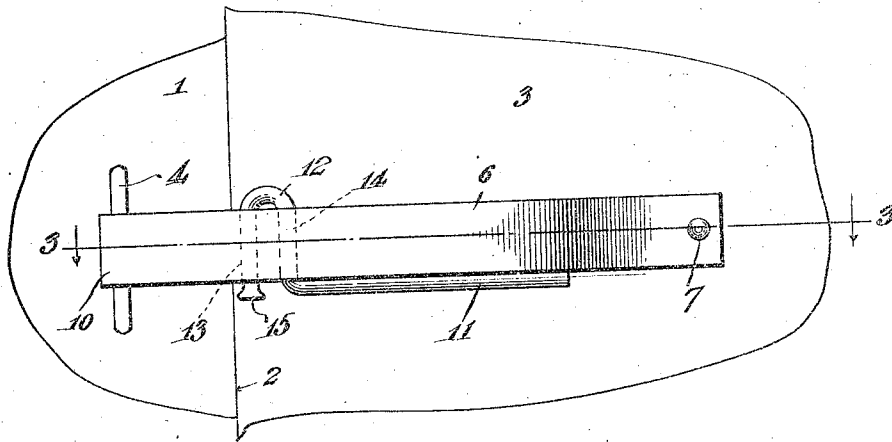


Fig. 1.

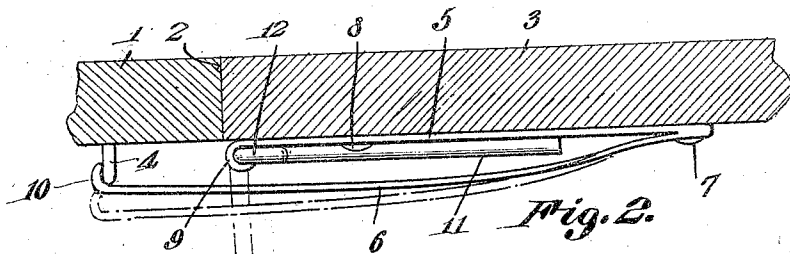


Fig. 2.

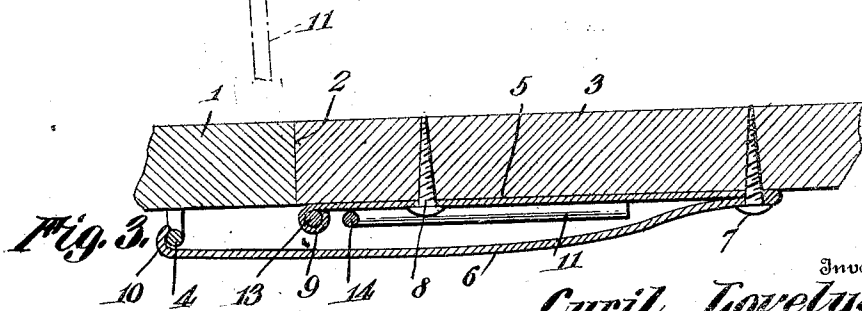


Fig. 3.

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CYRIL LOVELY, OF WEBSTER, MASSACHUSETTS.

HASP-FASTENER.

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To all whom it may concern:

Be it known that I, CYRIL LOVELY, a citizen of the United States, residing at Webster, in the county of Worcester and State of Massachusetts, have invented new and useful Improvements in Hasp-Fasteners, of which the following is a specification.

This invention relates to a lock for sliding doors, and particularly to a lock for the sliding doors of freight cars.

The object of the invention is to provide a simple and inexpensive construction of lock which, when engaged with its keeper, will hold the door securely closed and yet may be readily released when it is desired to open the door.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawings, in which:—

Figure 1 is a front elevation of a portion of the body of a freight car and portion of the door thereof, showing the lock held in closed position by the improved lock. Fig. 2 is a horizontal section taken on a plane above the lock and showing in full lines the door locked and in dotted lines the lock releasing operation. Fig. 3 is a horizontal section on line 3—3 of Fig. 1.

Referring to the drawings, 1 designates a portion of the side of a freight car and forming one of the jambs of the doorway 2, which is adapted to be closed by the sliding door 3. On the jamb is a keeper 4, which may consist, as shown, of an ordinary vertically arranged staple.

The lock comprises an elongated strip of sheet metal bent or folded upon itself to form an attaching arm 5 and a locking arm 6. The inner ends of these arms are secured to the door by a suitable fastening 7, while the arm 5 is also secured to the door by a fastening 8 and bent at its outer end, which terminates at or adjacent to the free end of the door, to form a loop or eye 9. The arm 6 is longitudinally bowed or curved and of greater length than the arm 5 so that its free end will project beyond the door and over the jamb when the door is closed. The said free end of the arm is bent inwardly to provide a locking hook or projection 10 which is adapted to ride over and snap into engage-

ment with the keeper. The connection between the locking arm and keeper is secure enough, through the spring action of the arm to prevent disengagement of said locking arm under the jars and vibration to which the door is subjected while the car is in transit.

A device is provided to retract or release the locking arm and comprises a lever 11 arranged to lie between the attaching and locking arms and is provided with a right angularly disposed U-shaped end 12 forming a pivot pin 13 and a retracting stem 14. The lever is preferably made of wire and the pin 13 is pivotally mounted in the loop or eye 9 and enlarged at its end, as at 15, to prevent its displacement. Normally the lever lies parallel with and between the arms, but by grasping its free end it may be swung outwardly, thereby causing the stem 14 to engage the free end of the locking arm and force the hook thereof out of engagement with the keeper.

From the foregoing description, the construction and mode of use of my improved lock will be readily understood, and it will be seen that it is adapted for effective use and to be inexpensively manufactured.

Having thus fully described the invention, what is claimed as new, is:—

1. A structure having a doorway, a keeper thereon at one side of the doorway, a sliding door, a locking arm secured at one end of the door and having a hooked free end to ride over and snap into engagement with said keeper, said arm being outwardly bowed throughout its length, and a pivotally mounted element on the door adapted to be operated to exert outward pressure on said bowed arm to release said hook from engagement with said keeper.

2. A structure having a doorway, a keeper thereon at one side of the doorway, a sliding door, a spring locking arm on the door having a hooked free end to ride over and snap into engagement with said keeper, and a lever pivotally mounted upon the door and having a portion arranged to engage and release said free end of the locking arm from engagement with the keeper.

3. A structure having a doorway, a keeper thereon at one side of the doorway, a sliding door, an attaching plate on the door formed

with an eye, a spring locking arm on the door having a hooked free end to ride over and snap into engagement with said keeper, and a lever bent at one end to form a pin
5 pivotally engaging said eye and a stem to engage and release said free end of the locking plate from engagement with the keeper.

In testimony whereof I affix my signature in presence of two witnesses.

CYRIL LOVELY.

Witnesses:

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