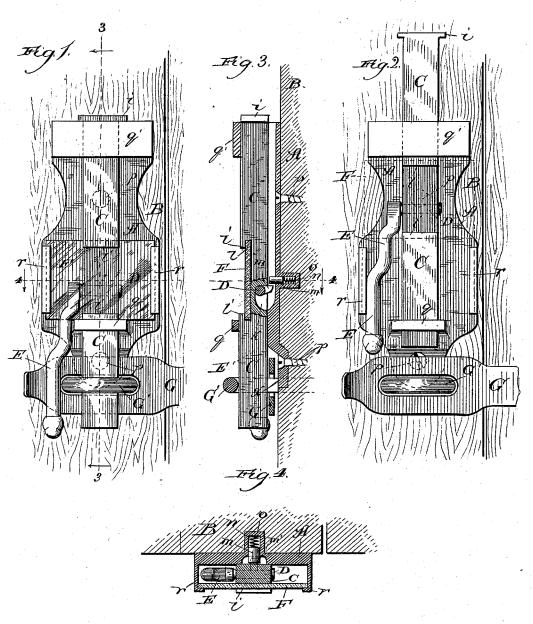
(Model.)

A. H. PEIRCE. SEAL LOCK.

No. 384,069.

Patented June 5, 1888.



Witnesses!

Calley Caybord

Inventor

Arthur H. Peirce,

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# UNITED STATES PATENT OFFICE.

## ARTHUR H. PEIRCE, OF CHICAGO, ILLINOIS.

#### SEAL-LOCK.

### SPECIFICATION forming part of Letters Patent No. 384,069, dated June 5, 1888.

Application filed February 14, 1888. Serial No. 263,956. (Model.)

To all whom it may concern:

Be it known that I, ARTHUR H. PEIRCE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Seal-Locks, of which the following is a specification.

My invention relates to the class of devices for use particularly in guarding the doors of freight-cars against being opened without deto tection, and comprising, generally stated, a bolt in a suitable housing adjacent to the staple on the door-post and adapted to be passed through the staple over the hasp extending from the freight car door, and a frangible seal 15 so adjusted with reference to the bolt that the latter cannot be actuated to unlock the hasp and permit opening of the door without thereby fracturing the seal, and thus leaving evidence

The object of my invention is to provide a seal-lock of peculiarly simple construction, effective in its purpose, and durable.

of the fact of opening of the door, or at least

To this end my invention consists in the 25 general construction of my improved device; and it also consists in details of construction

and combinations of parts.

20 the attempt to open it.

In the drawings, Figure 1 shows my improved seal lock in front elevation as applied 30 to a door-post, with the bolt extending through a staple over a hasp to lock a door. Fig. 2 shows the same with the bolt in its raised position to permit insertion of the frangible seal previous to adjusting the bolt into its locking 35 position. Fig. 3 is a section taken on the line  $\hat{3}\,3$  of Fig. 1 and viewed in the direction of the arrows, and Fig. 4 a section taken on the line 4 4 of Figs. 1 and 3 and viewed in the direction of the arrows.

A is a plate, preferably of metal, substantially rectangular as to its main portion, provided with lateral guide flanges r, and extended beyond both ends of the flanged portion directly below, and some distance above 45 which it is provided with guides q and q' for the bolt, hereinafter described, the extensions at opposite ends of the flanged portion being provided with apertures, through which screws p are passed into the door post B to se-50 cure the seal-lock in position. Near the center of the plate A and extending horizontally

into the door-post and containing a spring, n, confined within it by a stud, m, projected through the plate normally beyond its front 55 surface by the spring.

C is a bolt provided near its center and on one side, constituting the front side, with a rectangular recess as wide as the frangible seal, hereinafter described, which it receives, 60 and provided with flanges l' at its opposite ends, which extend toward each other over the recess to confine the seal therein.

D is a pin extending transversely through the bolt at a right angle to the stud m and 65 adapted to be rocked in its seat, and where the pin passes through the bolt is provided on its rear side with a recess, k, below the pin, and curved therefrom in a downward and outward direction to admit a stud, m', extending 70 transversely from the pin, shaped like the recess k, and extending normally in a horizontal direction from the pin.

E is a lever secured at one end to an end of the pin D, or formed as a part of the latter 75 and extending alongside the bolt, and by its weight the lever E serves to maintain the pin D in a position wherein the stud m' projects normally in a horizontal direction. The bolt is applied to the plate E by being inserted 80 through the guides q' and q, and when lowered to its locking position it rests at its upper end on a supporting-flange, i, which extends over

the opening in the guide q'.

F is a frangible seal, preferably of glass, of 85 a dimension to fit at two of its opposite edges in the recess l in the bolt and at its two other opposite edges between the flanges r on the plate A. To adjust the seal, the bolt is raised to bring the lower end of the recess l beyond 90 the upper ends of the flanges r, when the seal is slid into the recess l from one side of the same, and after the hasp G is adjusted over the staple G' against the lower extension of the plate A (which is bent slightly backward and 95 countersunk into the post B, as shown at x in Fig. 3, to permit the hasp to be flush with the plate, and thereby prevent its obstructing the bolt) the bolt is lowered to its seat afforded by the supporting-flange i, leading the lateral 100 edges of the seal F between the flanges r.

In the downward passage of the bolt the stud m' comes into contact with the spring-stud from its rear side is a socket, o, countersunk | m in its path and forces the spring stud back

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to pass it, when the latter is forced back by the ! spring n to its normal position, wherein it presents an unyielding obstruction to the straight upper side of the stud m', and thus prevents raising of the bolt to unlock or release the hasp. To effect the raising of the bolt, the stud m' must be turned downward and backward into the recess k, to avoid presentation to the stud m of an obstruction. The only means 10 of turning the stud m' out of the way, however, with the seal in place, as described, is the lever E, which extends below the lower edge of the seal. As the seal is in front of the lever, how-

ever, the latter is obstructed by it and must 15 (since it cannot, owing to its vertical and lateral confinement, be otherwise removed) be fractured to remove it, the fracturing being accomplished by the pressure against the seal of the lever in pulling it backward to turn the 20 pin D and stud m'. When the seal is broken, the stud m' is readily turned to permit raising of the bolt to release the hasp, and if the

fracturing of the seal is performed by any person unauthorized to open the car-door the 25 broken seal indicates that the car has been unwarrantably invaded, whereby the object of the device is accomplished.

What I claim as new, and desire to secure by Letters Patent, is-

1. In a seal lock, the combination of a plate, A, provided with lateral flanges r, a bolt, C, on

the plate, movable longitudinally thereon and immovable axially, and provided with a recess, l, and normally locked against longitudinal 35 movement, and a frangible seal, F, confined in the recess l and between the flanges r and re-

quiring to be fractured to permit access to the locking mechanism of the bolt, substantially as and for the purpose set forth.

2. In a seal-lock, the combination of a plate, 40 A, provided with lateral flanges r and a yielding stud, m, a bolt, C, on the plate, movable longitudinally thereon, and provided with a recess, l, in its front side and with a recess, k, in its rear side, a rotary pin, D, extending 45 through the bolt transversely to the stud m and carrying a stud, m', adjacent to the recess k, a lever, E, extending from the pin D, and a frangible seal, F, confined in the recess l and between the flanges r, substantially as and for 50

the purpose set forth.

3. A seal-lock comprising, in combination, a plate, A, having extensions at opposite ends, through which to secure the device in place, and provided with guides q and q', lateral 55 flanges r between the guides, and a yielding stud, m, a bolt, C, extending through the guides, movable longitudinally therein, and provided with a recess, l, in its front side and with a recess, k, in its rear side, a rotary pin, D, extend- 60 ing through the bolt transversely to the stud m and carrying a stud, m', adjacent to the recess k and normally projecting into the path of the yielding stud, a lever, E, extending from the pin D, and a frangible seal, F, confined in 65 the recess l and between the flanges r, substantially as and for the purpose set forth.

#### ARTHUR H. PEIRCE.

In presence of-J. W. DYRENFORTH, CHAS. E. GAYLORD.