

(No Model.)

J. H. VANCE.
SEAL LOCK.

No. 597,923.

Patented Jan. 25, 1898.

Fig. 1.

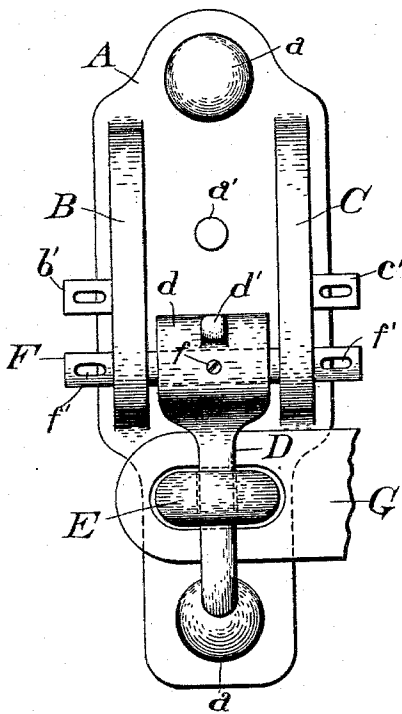
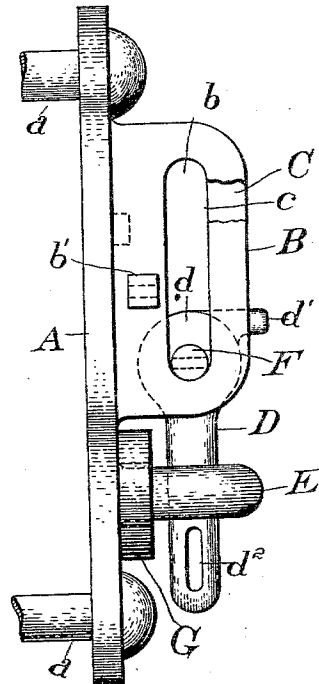


Fig. 2.



Witnesses
James Smith
R. Clinton Balingier

James Harvey Vance, Inventor
By Edwin Guthrie, Attorney

UNITED STATES PATENT OFFICE.

JAMES HARVEY VANCE, OF PITTSBURG, PENNSYLVANIA.

SEAL-LOCK.

SPECIFICATION forming part of Letters Patent No. 597,923, dated January 25, 1898.

Application filed April 3, 1897. Serial No. 630,649. (No model.)

To all whom it may concern:

Be it known that I, JAMES HARVEY VANCE, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Seal-Locks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to seal-locks such as are customarily employed to secure the doors of freight-cars upon railways.

The object of my invention is to provide a lock of the class named consisting of three essential parts, each part capable of being cast complete, with consequent economy and simplicity of construction, increased durability, and saving of time and labor in operation.

Another object of my invention is the production of a seal-lock comprising three co-acting elements in which the bolt may be given a reciprocative movement in the direction of its length and an additional pivotal movement in a vertical arc upon suitable trunnions, which intervene also to prevent the separation, accidental or otherwise, of the bolt and base or bed plate of the lock.

Referring to the accompanying drawings, in which like letters are used to designate like parts throughout the two views, Figure 1 represents a top plan view of my invention engaging a hasp, a portion only of the hasp being drawn; and Fig. 2 represents a side view.

Considering Fig. 1, letter A marks the base or bed plate constructed for attachment to the frame of a car-door, usually vertically, by means of bolts *a a*. A short pintle *a'* is formed upon and integral with base A, to be again referred to. Cast with the base, perpendicular thereto, are the twin parallel ears or lugs B C, ordinarily of about the contour shown in Fig. 2 and provided with corresponding longitudinal slots *b c*, same figure.

Letter D designates the bolt in the drawings. It possesses an enlarged end *d*, upon

which, near the rear, is formed a projection *d'*, to be again mentioned. In Fig. 2 will be seen a longitudinal slot *d²*, through which any suitable seal may be secured. I prefer to make the bolt D as shown; but the slot *d²* may be placed between the staple E and the enlarged end *d* of the bolt, or it may be entirely omitted and the bolt seal-locked, as hereinafter described.

Passing through a central horizontal bore in end *d* of the bolt is a short cylindrical shaft or pivot-pin F, fixed to bolt D by set-screws *f* and its ends in engagement with slots *b c*. It is my practice to extend the ends of shaft F beyond ears B C and to slot the projecting ends diametrically. (See Fig. 1.) The slots are marked *f'*. At one or more points upon the ears B C, or upon only one of them, I construct slotted lugs *b' c'*. Through the slots in the shaft F and in the lugs *b' c'* the bolt may obviously be seal-locked in the same manner as when slot *d²* of the bolt is available. It is within the scope of my invention to form the lugs *b' c'* either singly or in pairs above or below, or both above and below, the slotted ends of shaft F.

The operation of my invention may be stated as follows: A hasp G, suitably shackled to a car-door, is placed over staple E. The bolt is then introduced through the staple above the hasp and seal-locked in the chosen way. It will be observed that I obtain a point of economy in construction by attaching the bolt D upon a shaft revoluble within the slots *b c* of ears B C. By reason of my peculiar formation the bolt may be turned upwardly when withdrawn clear of the staple, thus freeing the hasp without necessitating additional length to ears B C and their longitudinal slots. The offices of pintle *a'* and projection *d'* will now be understood. As the bolt is turned upon its shaft these two elements come into contact and limit the movement of the bolt and prevent the operator from injuring his hand against the ears.

I am aware that seal-locks have been constructed having sliding slotted bolts and staples so placed as to engage the bolts, and I do not claim those features broadly.

Having thus described my invention, what I do claim, and desire to protect by Letters Patent of the United States, is the following:

1. In a seal-lock, the combination of a base-plate having twin, parallel ears B and C provided with corresponding longitudinal slots, a bolt arranged between said ears, a shaft 5 secured through one end of said bolt at right angles thereto, the ends of said shaft passing movably through said slots, said bolt being movable bodily in the direction of its length and pivotally in a plane perpendicular to said 10 base-plate, and a staple projecting from said plate in the path of the bolt, substantially as described.

2. In a seal-lock, the combination of a base-plate having twin, parallel ears B and C provided with corresponding longitudinal slots 15 and having the slotted exterior lugs b' , c' , a

bolt arranged between said ears, a shaft F secured through one end of said bolt at right angles thereto, the ends of said shaft passing movably through the slots in said ears and 20 having diametrical slots f' , f' , said bolt being movable bodily in the direction of its length and pivotally in a plane perpendicular to said base-plate, and a staple projecting from said plate in the path of the bolt, substantially as 25 described.

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

JAMES HARVEY VANCE.

Witnesses:

ROBT. J. COYLE, Jr.,

GUY E. CAMPBELL.