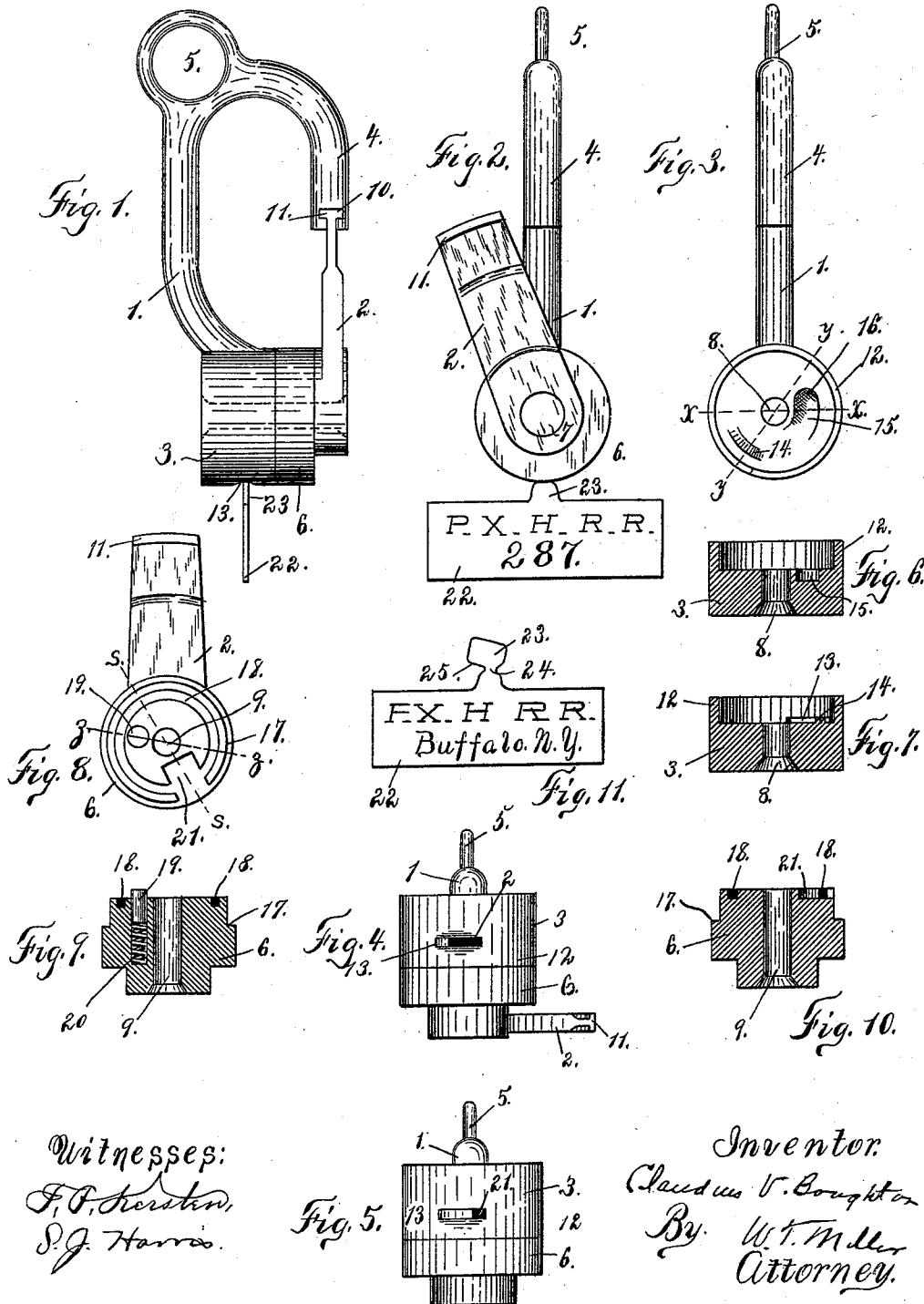


(No Model.)

C. V. BOUGHTON.
SEAL LOCK.

No. 536,454.

Patented Mar. 26, 1895.



UNITED STATES PATENT OFFICE.

CLAUDIUS V. BOUGHTON, OF BUFFALO, NEW YORK.

SEAL-LOCK.

SPECIFICATION forming part of Letters Patent No. 536,454, dated March 26, 1895.

Application filed December 26, 1894. Serial No. 532,911. (No model.)

To all whom it may concern:

Be it known that I, CLAUDIUS V. BOUGHTON, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Seal-Locks; and I do hereby 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in seal-locks for railway cars, its object being to provide a lock the engaging members of which are sealed by a projection upon a tag which projection must be broken away from the tag, before the members of the lock can be disengaged to obtain access to the car.

To this end my invention consists of two engaging members which embrace the staple outside of the locking hasp one of such members being pivoted to the other, its outer or free end being adapted for revolving engagement with a projecting arm upon the other member, means concealed within the joint for preventing a reverse movement of the revolving member at the point of engagement with the projecting arm of the other member, a recess in the revoluble hub of the pivoted member adapted for the locking reception of the projection upon the tag and a slot in the hub of the other member, through which the projection upon the tag is passed into engagement with the recess.

My invention further consists of other details of construction all of which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of my improved seal lock showing the engaging members in locked position. Fig. 2 is another elevation of Fig. 1 showing the revolving member out of engagement and in position for the insertion of the projection upon the tag. Fig. 3 is a detached inner face view of the member with the projecting arm. Fig. 4 is an under side view of Fig. 2 with the tag removed. Fig. 5 is a similar view of Fig. 1. Fig. 6 is a transverse section of Fig. 3 taken in the line $x-x$. Fig. 7 is a similar section of Fig. 3 taken in the line $y-y$. Fig. 8 is a de-

tached inner face view of the revolving member. Fig. 9 is a transverse section of Fig. 8 taken in the line $z-z$. Fig. 10 is a similar section of Fig. 8 taken in the line $s-s$, and Fig. 11 is a detached view of the tag with its projection.

Referring to the drawings it will be seen that my improved seal lock consists of two principal members 1 and 2. The part 1 is provided at its lower end with the hub 3 and at its upper end with the curved downwardly projecting arm 4, and 5 is a loop by means of which the member 1 is permanently secured by a chain to the car. The member 2 is provided with the hub 6 which is loosely pivoted to the hub 3 by the axle 7 which passes through the central orifices 8 and 9 in the hubs 3 and 6. The lower end of the projecting arm 4 is provided with the T shaped slot 10, see Fig. 1, adapted for the loose reception of the T shaped end 11 upon the outer or free end of the pivoted member 2.

The inner face of the hub 3 is surrounded by an annular flange or wall 12 having upon its under side the slot 13. Adjacent to the slot 13 upon the inner face of the hub 3 and just within the wall 12 is the inclined projection 14 its highest point being nearest the slot 13 in the wall 12. To the right of the central aperture 8 is the inclined recess 15 its deepest portion being at its upper end forming an abrupt shoulder 16.

The inner end of the hub 6 upon the pivoted member 2 is provided with the outside annular shoulder 17 adapted to register with the annular wall 12 upon the hub 3. Just within this annular shoulder 17 and concentric therewith is the annular groove 18 in which the projection 14 upon the inner face of the hub 3, rides. To the left of the orifice 9 in the hub 6 (see Figs. 8 and 9) is the spring pressed knob or spur 19 adapted to be pressed in or out of its recess 20 in the hub. This knob 19 is adapted to engage with the shoulder 16 of the recess 15 in the hub 3 when the arm 2 is revolved in one direction and to pass by the same in the other direction. A wide recess 21 is cut in the inner face of the hub 6 extending from a point near the central aperture 9 in the hub 6 to the outer edge of its inner face.

22 is a sheet metal tag of rectangular con-

figuration having centrally arranged upon its upper edge the projection 23 provided with the narrow neck 24 and the engaging shoulder 25 adjacent to the neck 24.

5 My improved seal lock just described is adjusted in position as follows: The pivoted member 2 is swung out of engagement with the arm 4 upon the member 1 and such arm is passed down through the staple upon the car
10 in front of the hasp which is in engagement with the staple. The pivoted member 2 is then swung back to the position shown in Figs. 2 and 4 in which position the recess 21 in the revoluble hub 6 registers with the slot
15 13 in the hub 3. The projection 23 upon the tag 22 is then inserted through slot 13 into the recess 21. On swinging the pivoted member 2 into engagement with the arm 4 of the member 1 as shown in Figs. 1 and 5, the pro-
20 jection 23 upon the tag 22 is carried along until the shoulder 25 upon the projection 23 engages behind the wall 12. At this point the spring-pressed knob 19 in the hub 6 springs into the recess 15 in the hub 3, the shoulder
25 16 of which prevents a retrograde movement of the pivoted member 2. In this manner the two members are securely locked in their positions around the staple and the tag cannot be withdrawn entirely owing to the engagement
30 of the shoulder 25 with the wall 12 of the hub 3. As the pivoted member 2 is swung into engagement with the arm 4 the inclined projection 14 upon the inner face of the hub 3 rides up upon the projection 23 on the tag
35 adjacent to its narrow neck 24 and presses the same firmly against the floor of the recess 21 in the face of the opposite hub 6 which insures the breaking of the tag along the neck 24.

The lock can be opened only by breaking
40 off the projection 23 which permits the pivoted member 2 to be swung clear of the arm 4. To remove the broken-off projection 23 the arm 2 is swung around its recess in the revoluble hub carrying with it the loose pro-
45 jection until such recess again registers with the slot 13, at which point the projection will fall out through such recess and the lock is again in position for the insertion of a fresh seal.

50 It will be seen that it is impossible to disengage the locked members without breaking the tag away from its suspending projection thus making it an absolute safe guard against any successful tampering with the same.

Upon the face of the tag are to be printed 55 stamped or otherwise placed the name of the railroad and below it the station at which the car is sealed or the tags can be numbered consecutively, the tag when broken away being kept for reference if desired. 60

It will be noted that my improved seal-lock consists of but two principal parts both of which can be cast thus reducing the cost of manufacture to a minimum.

I claim— 65

1. A seal-lock consisting of two engaging members which embrace the staple outside of the locking hasp, one of such members being pivoted to the other, its outer or free end being adapted for revolving engagement with a projecting arm upon the other member, means concealed within the joint for preventing a reverse movement of the revolving member at the point of engagement with the projecting arm of the other member, a recess in the revoluble hub of the pivoted member adapted for the locking reception of the projection upon the tag and a slot in the hub of the other member through which the projection upon the tag is passed into engagement with the 80 revoluble recess.

2. A seal-lock consisting of two engaging members which embrace the staple outside of the locking hasp, one of such members being pivoted to the other, its outer or free end being adapted for revolving engagement with a projecting arm upon the other member, means concealed within the joint for preventing a reverse movement of the revolving member at the point of engagement with the projecting arm of the other member, a recess in the revoluble hub of the pivoted member adapted for the locking reception of the projection upon the tag a slot in the hub of the other member through which the projection upon 95 the tag is passed into engagement with the revoluble recess and an inclined projection its highest point being nearest the slot in the wall for holding the projection on the tag, tight against the face of the pivoted member. 100

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CLAUDIUS V. BOUGHTON.

Witnesses:

W. T. MILLER,
I. J. HARRIS.