Aug. 14, 1923. 1,465,136

A. KLEIN

CAR LOCK

Filed July 20, 1922 2 Sheets-Sheet 1

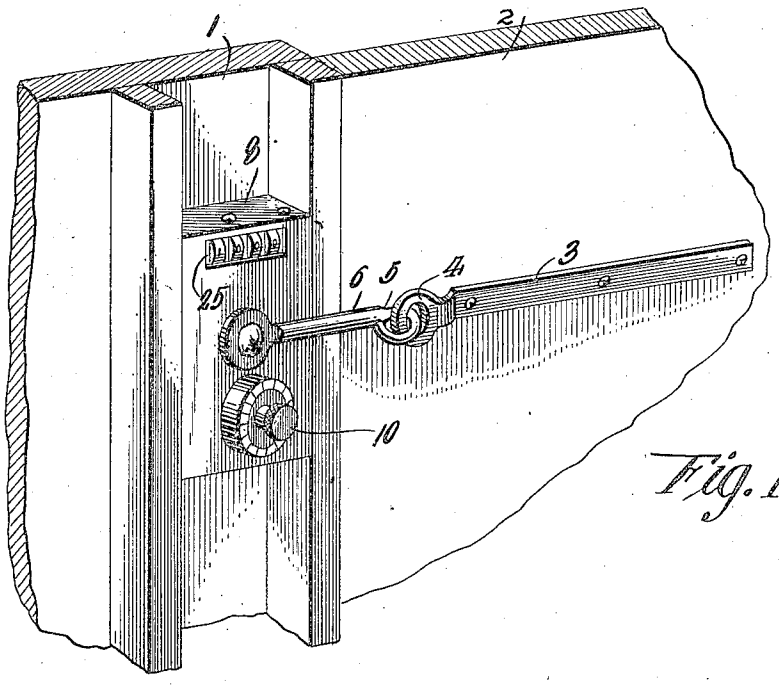


Fig. 1.

Fig. 2.

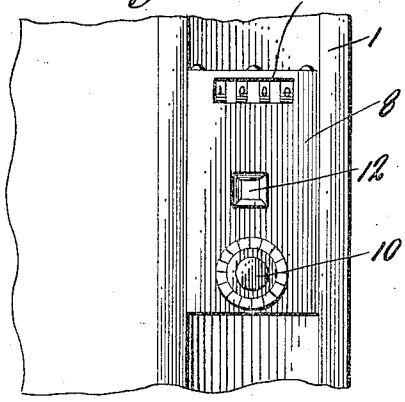
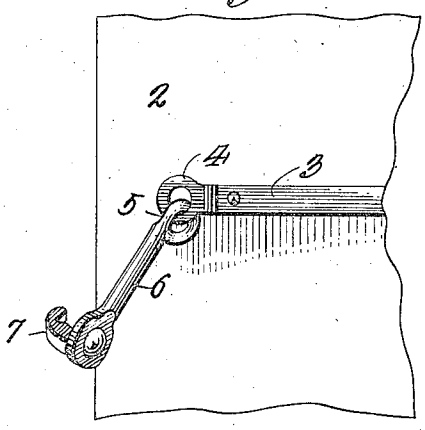


Fig. 3.



WITNESSES
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Fig. 4.

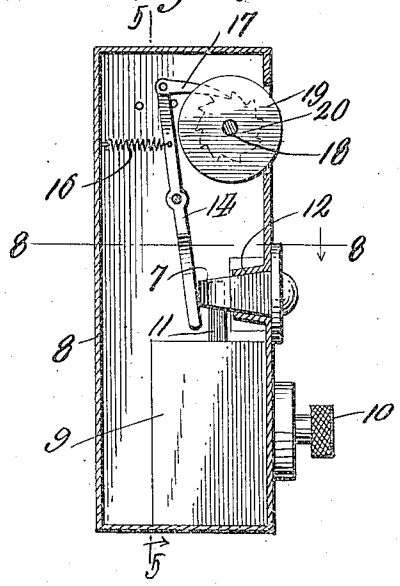


Fig. 5.

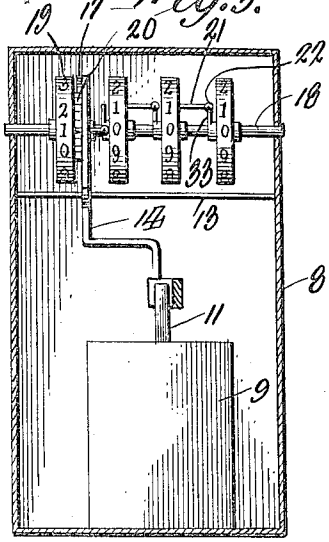


Fig. 7.

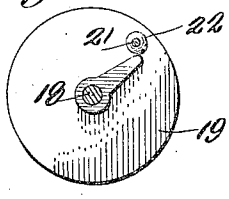


Fig. 6.

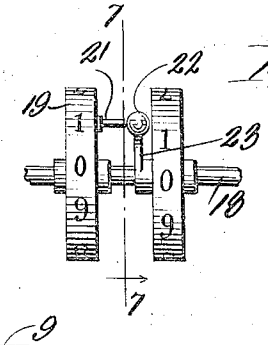
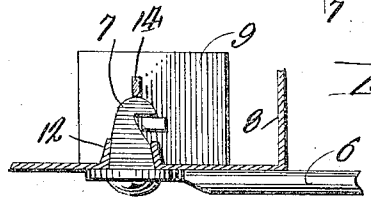


Fig. 8.



WITNESSES

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Patented Aug. 14, 1923. 1,465,136

UNITED STATES PATENT OFFICE.

ARTHUR KLEIN, OF POUGHKEEPSIE, NEW YORK.

CAR LOCK.

Application filed July 20, 1922. Serial No. 576,327.

To all whom it may concern:

Be it known that I, ARTHUR KLEIN, a citizen of the United States, residing at Poughkeepsie, in the county of Dutchess and State of New York, have invented certain new and useful Improvements in a Car Lock, of which the following is a specification.

The present invention relates to a lock to be used in conjunction with freight cars and the like to indicate and record the number of times the lock has been opened.

Another important object of the invention is to provide a device of this nature which will be simple and efficient in construction, reliable in operation, comparatively inexpensive to manufacture, durable, and well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description progresses, the invention resides in certain novel features of construction, and the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:—

Figure 1 is a fragmentary perspective of a door frame and door showing my locking mechanism associated therewith,

Figure 2 is an elevation of a portion of the door frame showing my locking mechanism therein,

Figure 3 is a fragmentary elevation of the end of a freight car door showing my hasp attached thereto,

Figure 4 is a transverse vertical section taken through the locking mechanism,

Figure 5 is a section taken substantially on the line 5—5 of Figure 4 looking in the direction of the arrow,

Figure 6 is a detailed elevation of some of the recording drums,

Figure 7 is a detailed section taken substantially on the line 7—7 of Figure 6 looking in the direction of the arrow, and

Figure 8 is a detailed section taken substantially on the line 8—8 of Figure 4 looking in the direction of the arrow.

Referring to the drawings in detail it will be seen that 1 designates a portion of a door frame and 2 the slidable door which abuts the frame when in a closed position. A strap 3 is fixed to the door 2 adjacent its end and terminates in an eye 4 which engages the eye 5 of the hasp 6 which is provided with an offset hook extension 7.

My locking mechanism is enhoused in the case 8 which is provided with a permutation locking means 9 of any preferred construction being operable by the knob 10 so as to move the bolt 11 in and out of registry with the opening 12 through which the hook extension 7 is adapted to project when the hasp is in a locked position. A rod 13 is mounted in the case 8 adjacent the upper end thereof and acts as a fulcrum for the lever 14 the lower end of which is adapted to be engaged by the hooked extension 7 so as to slightly fulcrum the same, this end of the lever being held in engagement with the inwardly extending flange of the opening 12 when the hooked shaped extension 9 is not in engagement therewith by means of a spring 16. A dog 17 is pivoted on the upper end of the lever 14.

A recording mechanism of any preferred construction is mounted in the upper end of the case and is actuated by the dog 17. This recording mechanism in the present instance consists of a shaft 18 spanned across the top portion of the case 8 and having mounted thereon a plurality of recording drums 19 one of which is provided with a ratchet wheel 20 engageable by the dog 17 so as to be actuated thereby upon oscillation of the lever 14. The drums 19 are provided with extensions 21 terminating in knobs 22 rotatable thereon and also with fingers 23 which are engageable with the knobs 22 of an adjacent drum so that upon rotation of one drum the adjacent drum will be slightly rotated only. These drums are visible through an opening 25 in the case 8 and thus the number of times in which the hasp extension 7 is inserted in the opening 12 will be recorded.

It is thought that the operation and construction of the device will now be readily understood without a more detailed description thereof. It is desired, however, to point out that numerous changes in the details of construction and in the combination and arrangement of parts may be resorted to without departing from the spirit of the invention as hereinafter claimed.

Having thus described my invention what I claim as new is:—

1. In combination, a case, a permutation lock in said case including a bolt, said case

provided with an opening adapted to register with the bolt when the same is in an extended and locking position, a lever fulcrumed in the casing, means for holding the lever normally so that one end will register with the opening, a member adapted to be projected through said opening for engagement with the lever so as to actuate the same and to be engaged by the bolt so as to prevent its removal, a dog pivotally mounted on the other end of the lever, and a recording mechanism actuated by the dog upon rocking of the lever in the manner and for the purpose specified.

2. In combination, a case provided with an opening in its intermediate portion, a recording mechanism mounted at one end of the case, a locking mechanism mounted at the other end of the case, a bolt included in the locking mechanism and movable transversely across the opening, a hook shaped member adapted to project through the opening into the casing and be engaged by the bolt, a lever adapted to be engaged by said member when inserted in the case and to engage said opening when the member is not in the case, said lever fulcrumed intermediate its ends within the case, a dog pivoted to the end of the lever adjacent the recording mechanism for operation thereof when the lever is oscillated by the member being inserted through the opening of the casing.

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

ARTHUR KLEIN.

Witnesses:
H. M. GRAHAM,
G. SCHWARTZ.