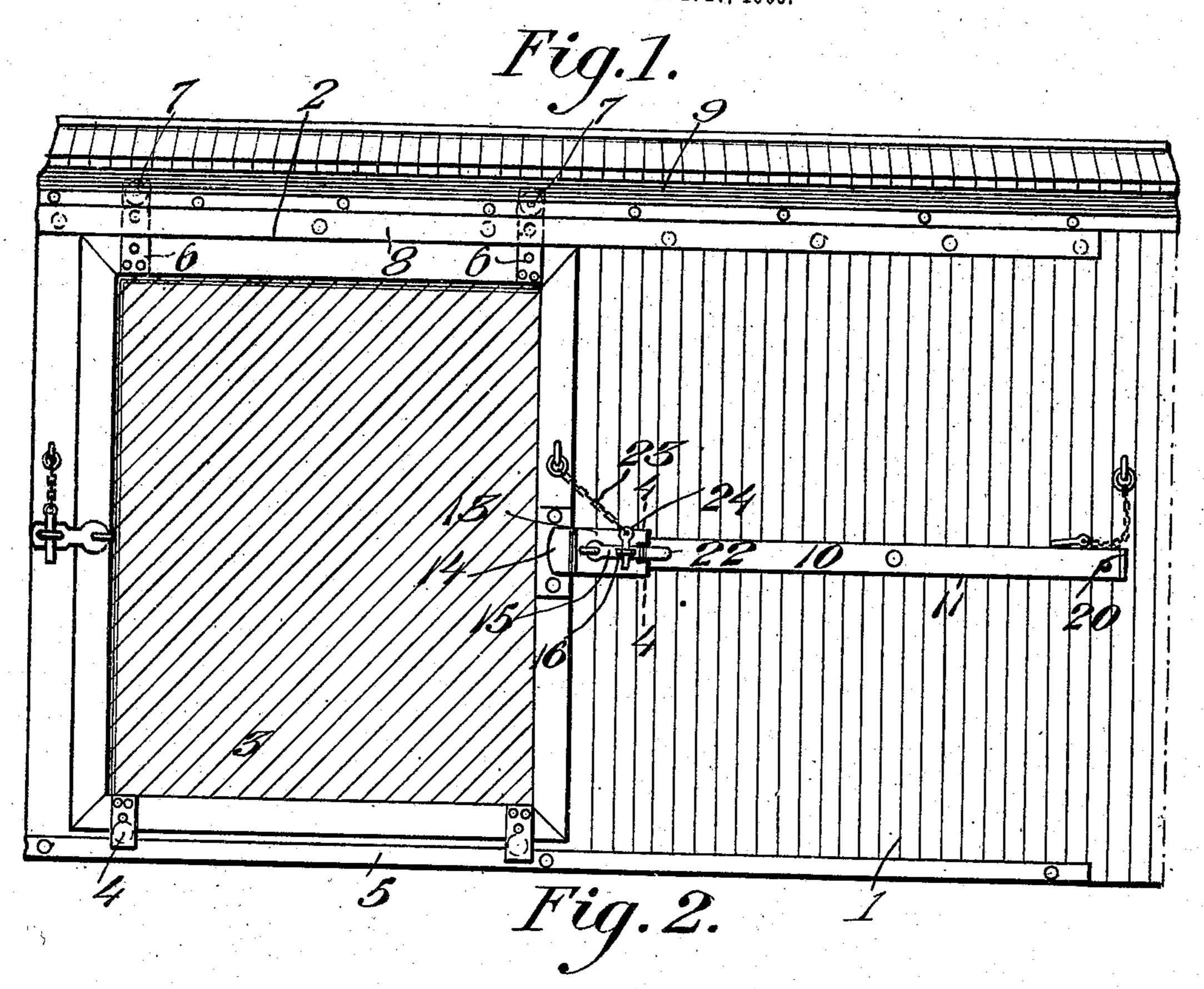
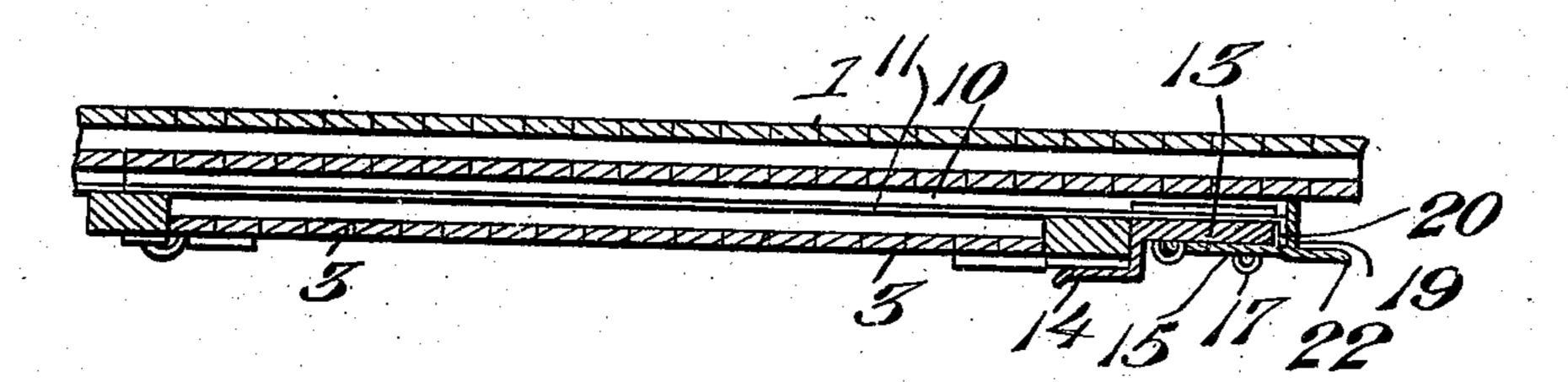
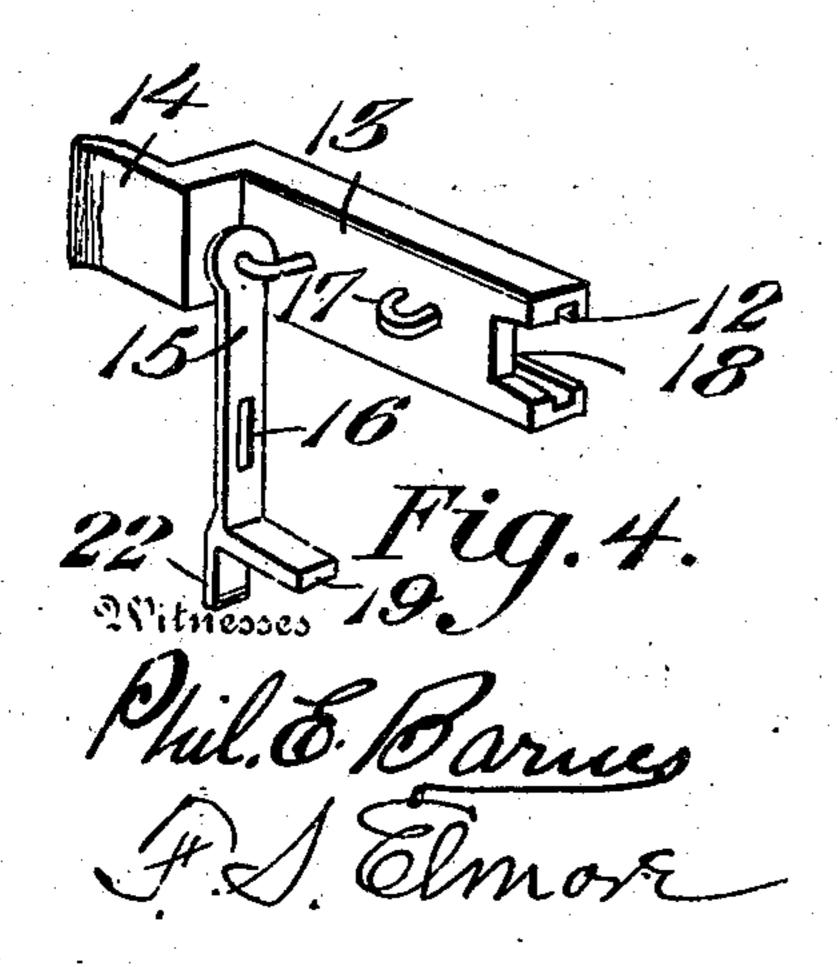
H. FRANCE,

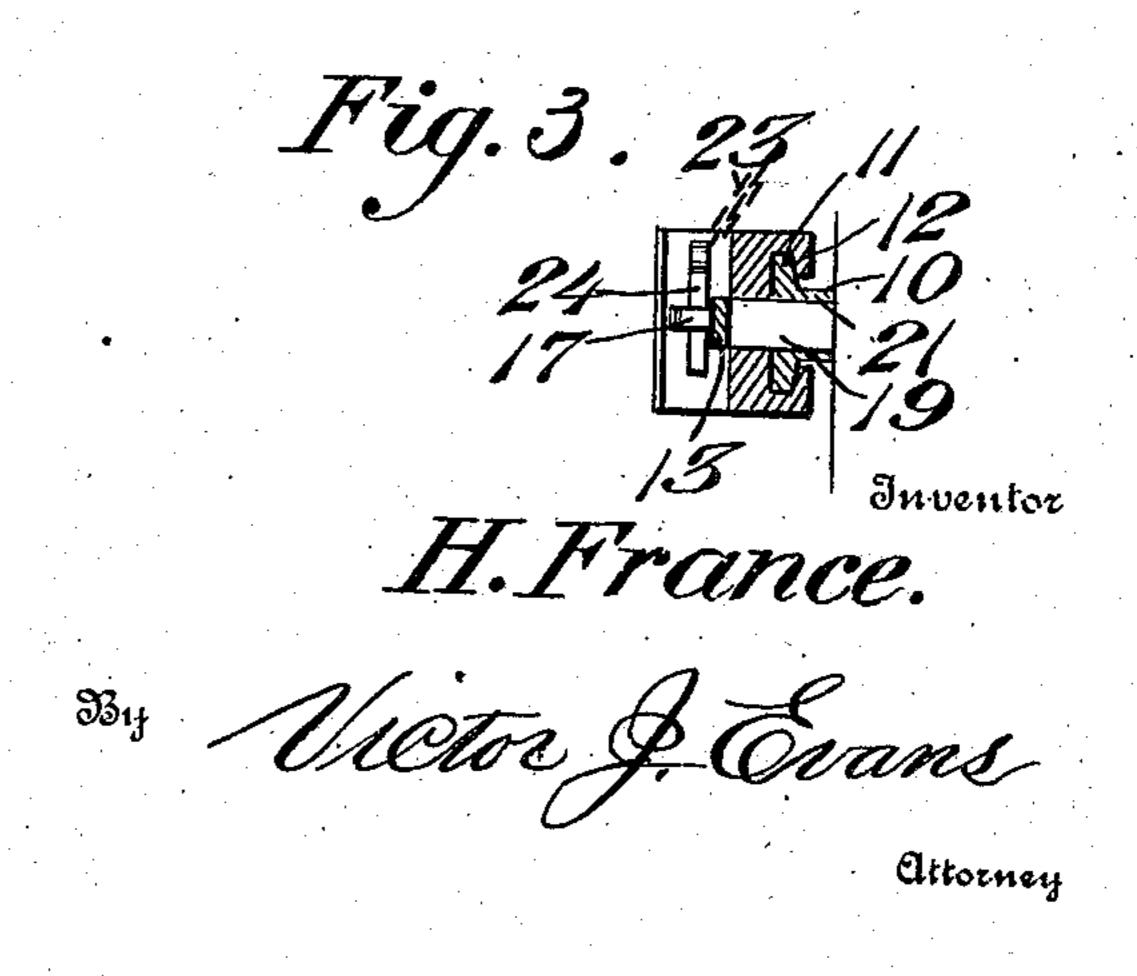
LOCK.

APPLICATION FILED SEPT. 17, 1906.









UNITED STATES PATENT OFFICE.

HARVEY FRANCE, OF CHICAGO, ILLINOIS.

LOCK.

No. 847,930.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed September 17, 1906. Serial No. 334,828.

To all whom it may concern:

Be it known that I, HARVEY FRANCE, a cago, in the county of Cook and State of Illi-5 nois, have invented new and useful Improvements in Locks, of which the following is a

specification.

This invention relates to locks designed especially for use on car or other sliding 10 doors, and has for its objects to produce a comparatively simple inexpensive device of this character through the medium of which the door may be readily locked in either open or closed position and one which may be con-15 veniently manipulated in the operations of locking or unlocking the door.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more

20 fully hereinafter described.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a car having a sliding door equipped with a lock embodying the invention, the door being shown in 25 closed condition. Fig. 2 is a horizontal section taken on a plane centrally of the guiderail, the door being shown in open position. Fig. 3 is a detail sectional view taken on the line 4 4 of Fig. 1. Fig. 4 is a detail perspec-30 tive view of the lock.

Referring to the drawings, 1 designates the side wall of a car having a doorway 2, adapted to be closed by a door 3, provided at its lower end with rollers 4, which travel on 35 a horizontal base-rail 5 and equipped at its upper end with hangers 6, in which are journaled rollers 7, adapted for travel on an overhead rail 8, there being attached to the wall above the rail 8 a shield 9, designed to 40 protect the parts from rain and snow.

Attached to the wall 1, preferably at a point centrally between the rails 5 and 8, is a horizontal guide-rail 10, having edge flanges 11, adapted for engagement by portions or 45 flanges 12, provided on a locking member or bolt 13, slidably arranged on said rail and having at its forward end a forwardly-projecting portion or lip 14, which in practice engages the edge of the door 3, there being 50 pivoted on the member 13 a hasp 15, provided between its ends with a slot 16, designed to receive a U-shaped shackle 17, fixed on the locking member 13, which has its rear end recessed, as at 18, to accommodate en-55 gaging portion or finger 19, formed on the

hasp 15. The rail 10 is provided at its rear end with an outwardly-projecting lip or citizen of the United States, residing at Chi- | keeper 20, adapted for engagement by the portion 19 of the hasp when the door is in open position, there being also provided in 60 the rail 10, at a point adjacent its forward end, an opening or socket 21, constituting a keeper for the reception of the portion 19 when the door is in closed condition. The hasp 15 has a forwardly-projecting finger- 65 piece 22, which may be engaged for moving the hasp to releasing position, while attached to the door 3 by means of a chain 23 is a locking-pin 24, designed to seat in the shackle 17 for holding the hasp in locking po- 70 sition.

> In practice when the door is closed the locking member 13 is moved along the rail 10 to the position seen in Fig. 1, with the portion or lip 14 engaged over the edge of the door, 75 and is locked in such position by means of the hasp 15, the portion 19 of which is entered into the socket 21 in the manner heretofore explained, after which the pin 24 is inserted through the shackle 17 for holding 80 the hasp in locking position. When the door is moved to open position, the projection 20 on the rail 10 enters the recess 18 of the locking-bolt, after which the hasp is arranged, as in Fig. 2, with the portion 19 85 thereof in engagement with the keeper 20, thus to hold the door in open position.

Having thus described my invention, what 1 claim is—

1. In a device of the class described and in 90 combination with a movable door, of a guiderail extended in the rear thereof, a lockingbolt slidably mounted on said rail and adapted for engagement with the door, and a hasp carried by the bolt and operable for locking 95 the same against movement on the rail.

2. In a device of the class described and in combination with a movable door, of a guide-rail extended in the rear thereof and provided with a keeper, a locking-bolt slid- 100 ably mounted on said rail and a hasp carried by the bolt and having a portion for engagement with the keeper to lock the bolt against movement.

In testimony whereof I affix my signature 105 in presence of two witnesses. HARVEY FRANCE.

Witnesses:

Wm. J. Ross, C. H. Coons.