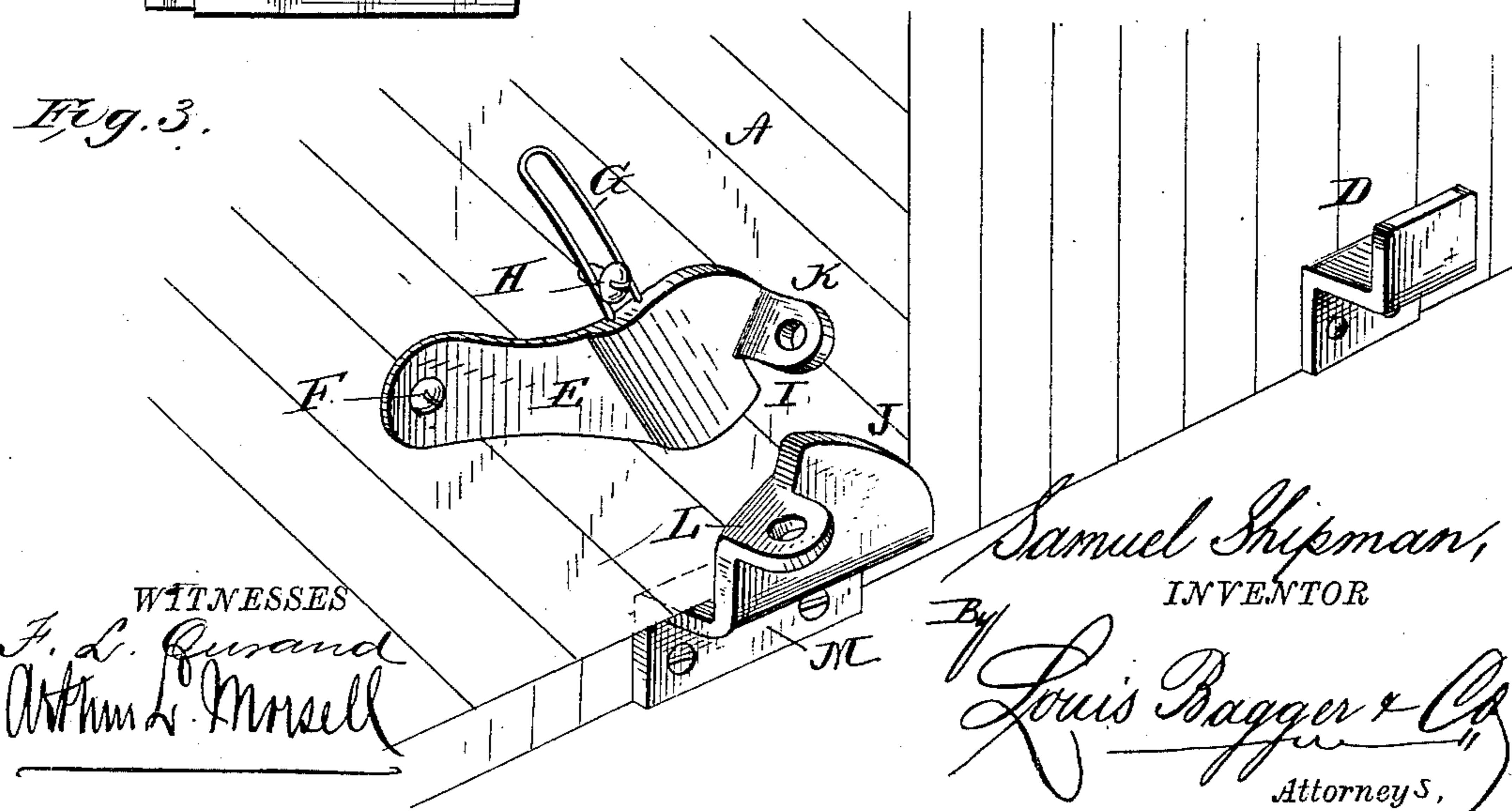
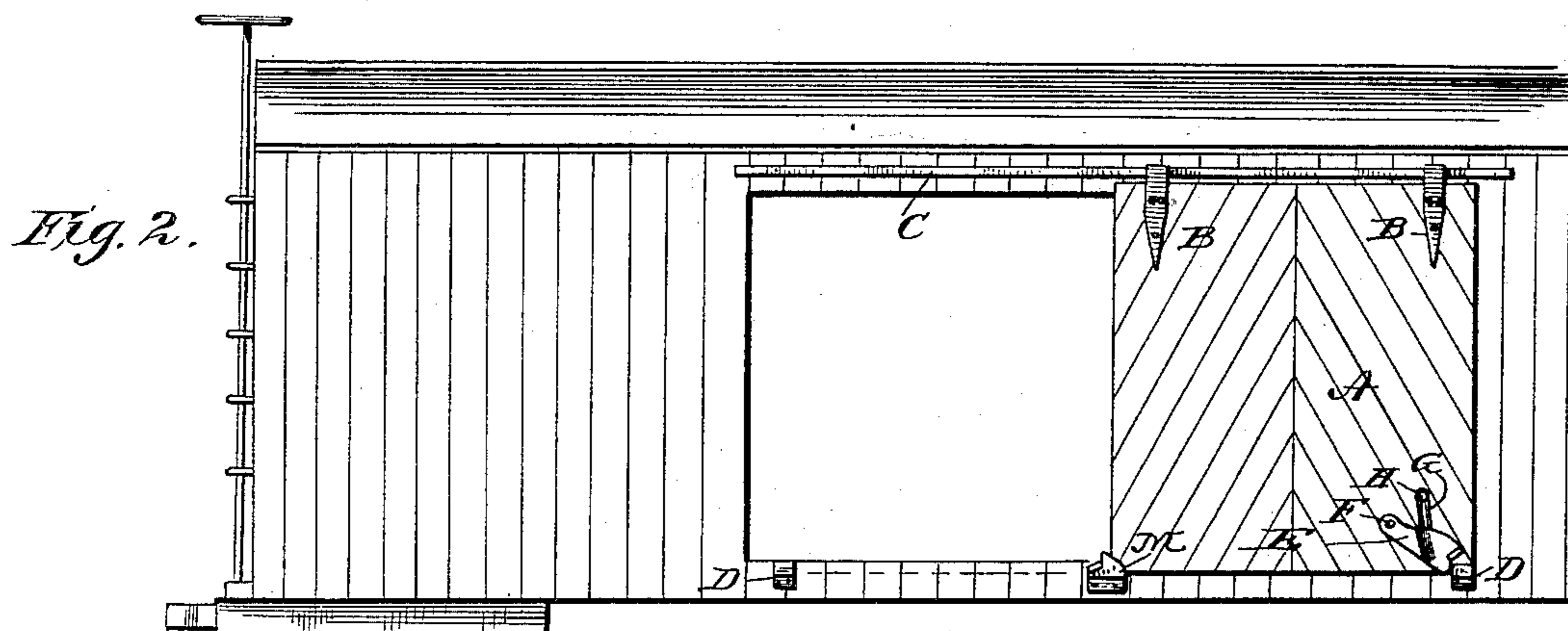
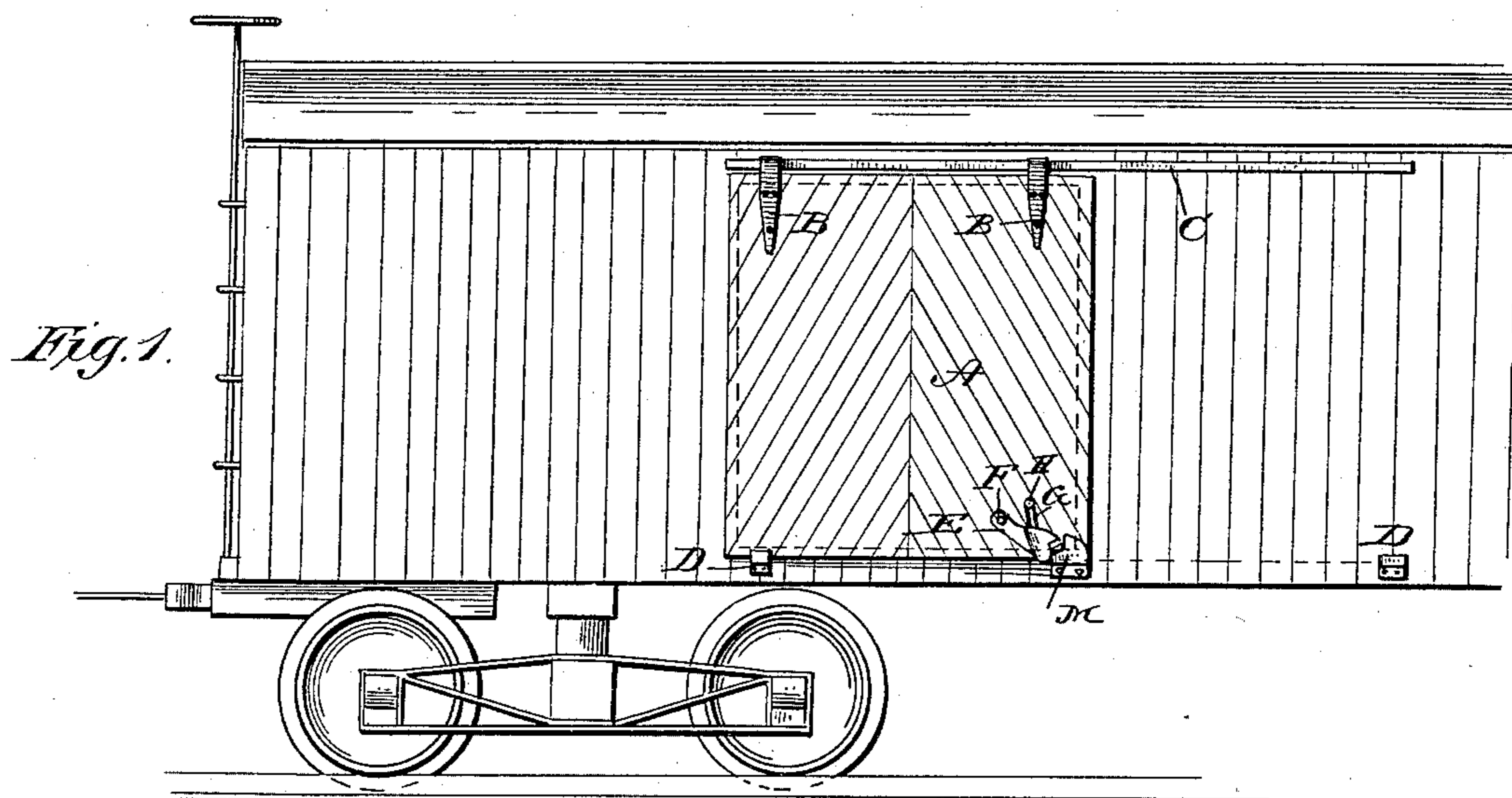


(No Model.)

S. SHIPMAN.
SLIDING DOOR LOCK.

No. 353,088.

Patented Nov. 23, 1886.



UNITED STATES PATENT OFFICE.

SAMUEL SHIPMAN, OF GRAND ISLAND, NEBRASKA, ASSIGNOR OF ONE-
FOURTH TO JAMES ROBINSON, OF SAME PLACE.

SLIDING-DOOR LOCK.

SPECIFICATION forming part of Letters Patent No. 353,088, dated November 23, 1886.

Application filed August 21, 1886. Serial No. 211,556. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL SHIPMAN, a citizen of the United States, and a resident of Grand Island, in the county of Hall and State of Nebraska, have invented certain new and useful Improvements in Sliding-Door Locks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of a railway freight-car provided with my improved lock. Fig. 2 is a similar view showing the door opened; and Fig. 3 is a view, on an enlarged scale, of the lock.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to locks for securing the sliding or rolling doors of freight-cars on railways; and it consists in the improved construction and combination of a gravitating latch which will hold the door closed and serve for the reception of a seal, and which will stop the door from being slid off from the rail when opened, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the door, which slides with suitable hangers, B, upon the rail C, and has its lower edge confined by means of outwardly and upwardly projecting lips D D at the ends of the throw of the door.

A flat latch, E, is pivoted upon a suitable pin or bolt, F, to the lower corner of the door, and has its free end weighted, and this latch is provided with a segmental loop, G. A bolt or headed pin, H, in the door projects through this loop and limits the play of the latch.

The free end of the latch is provided with an outwardly-projecting perforated lip, K, and with a shoulder, I, on its lower edge, directly below said lip. A plate, M, is secured to the bottom of the car, below the door, and has its upper portion bent outwardly and upwardly, between which and the side of the car the door is secured and moves back and forth. One corner of this upper portion is rounded, as shown at J, over which the latch

is drawn and raised as the door is being closed, and the other corner is provided with an outwardly-projecting perforated lip, L, similar to the lip K, and upon which the lip K rests when the door is closed. It will be seen that when the door is closed the latch will by its gravity drop down after passing over this plate, causing the shoulder to engage the edge of the upwardly-bent portion and the perforated lip to bear against the perforated lip of the plate, so that a seal may be inserted through the registering perforations in the lips, locking the latch to the plate. Although I have shown these lips inclined, they can be made either horizontal or vertical without departing from the spirit of my invention.

When the door is opened, the latch will, after it has been raised to pass over the plate, drop down by its gravity, and serve as a stop when the door arrives at the rear end of its throw, the shoulder of the latch engaging the upwardly-bent portion of the lip at that end of the throw of the door.

Having thus described my invention, I claim—

1. In a lock for sliding doors, the combination of a plate secured below the door and having its upper portion bent outwardly and upwardly, one of the upper corners of which is rounded, a latch pivoted to the door, and having a shoulder at the lower edge of its free end, and means, substantially as described, for securing said latch to said plate.

2. In a lock for sliding doors, the combination of a plate secured below the door and having its upper portion bent outwardly and upwardly, one corner of which upper portion is provided with an outwardly-projecting perforated lip, a latch pivoted to the door and having a shoulder and an outwardly-projecting perforated lip at its free end, and means, substantially as described, for securing said lips together.

3. In a lock for sliding doors, the combination of a plate secured below the door and having its upper portion bent outwardly and upwardly, a latch pivoted to said door, and having its free end provided with a segmental loop, a headed pin in the door, projecting through said loop, and means, substantially as described, for securing the latch to the plate.

4. In a lock for sliding doors, the combination of a plate and a lip secured to the side of the car, the plate at one end of the throw of the door when it is closed and the lip at the
5 end of the throw when it is open, and a latch pivoted to the side of the door near the lower corner, and having its free end weighted and provided with a shoulder.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

SAMUEL SHIPMAN.

Witnesses:

A. A. ABBOTT,

CHAS. N. ZIMMERMAN.