

(No Model.)

J. T. GORDON & J. H. HAMILTON.

SLIDING DOOR LATCH.

No. 345,048.

Patented July 6, 1886.

Fig. 1

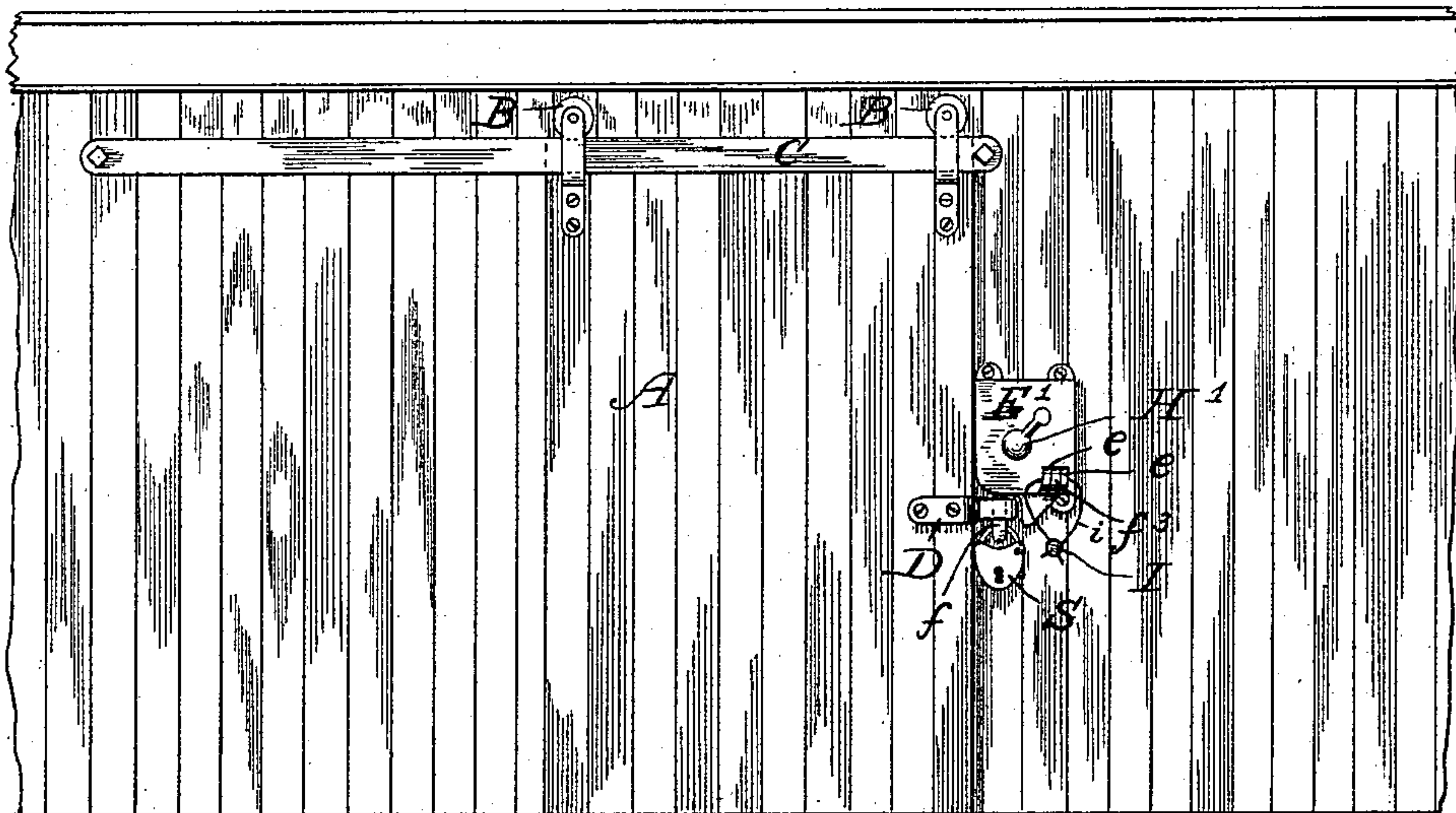


Fig. 2

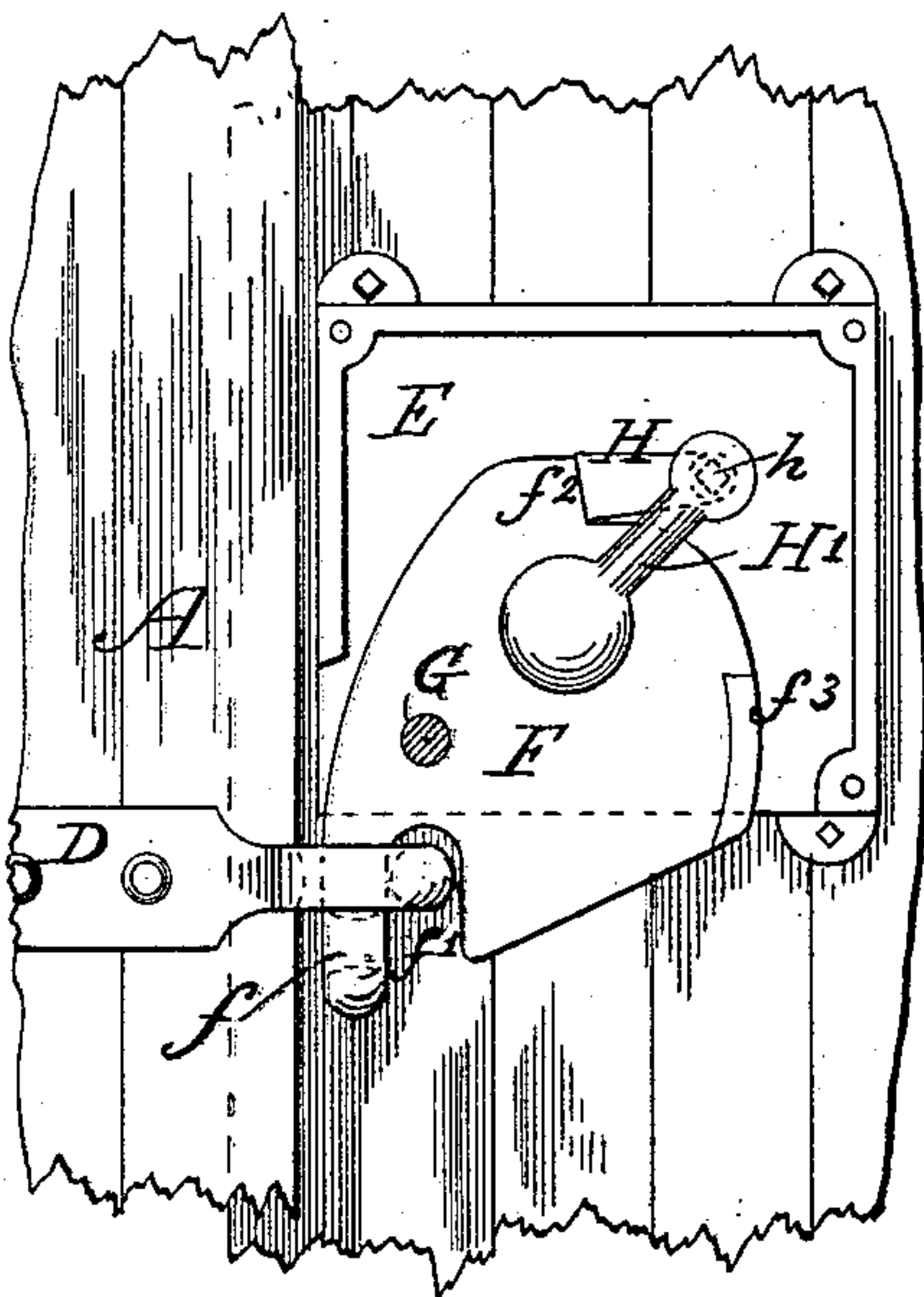
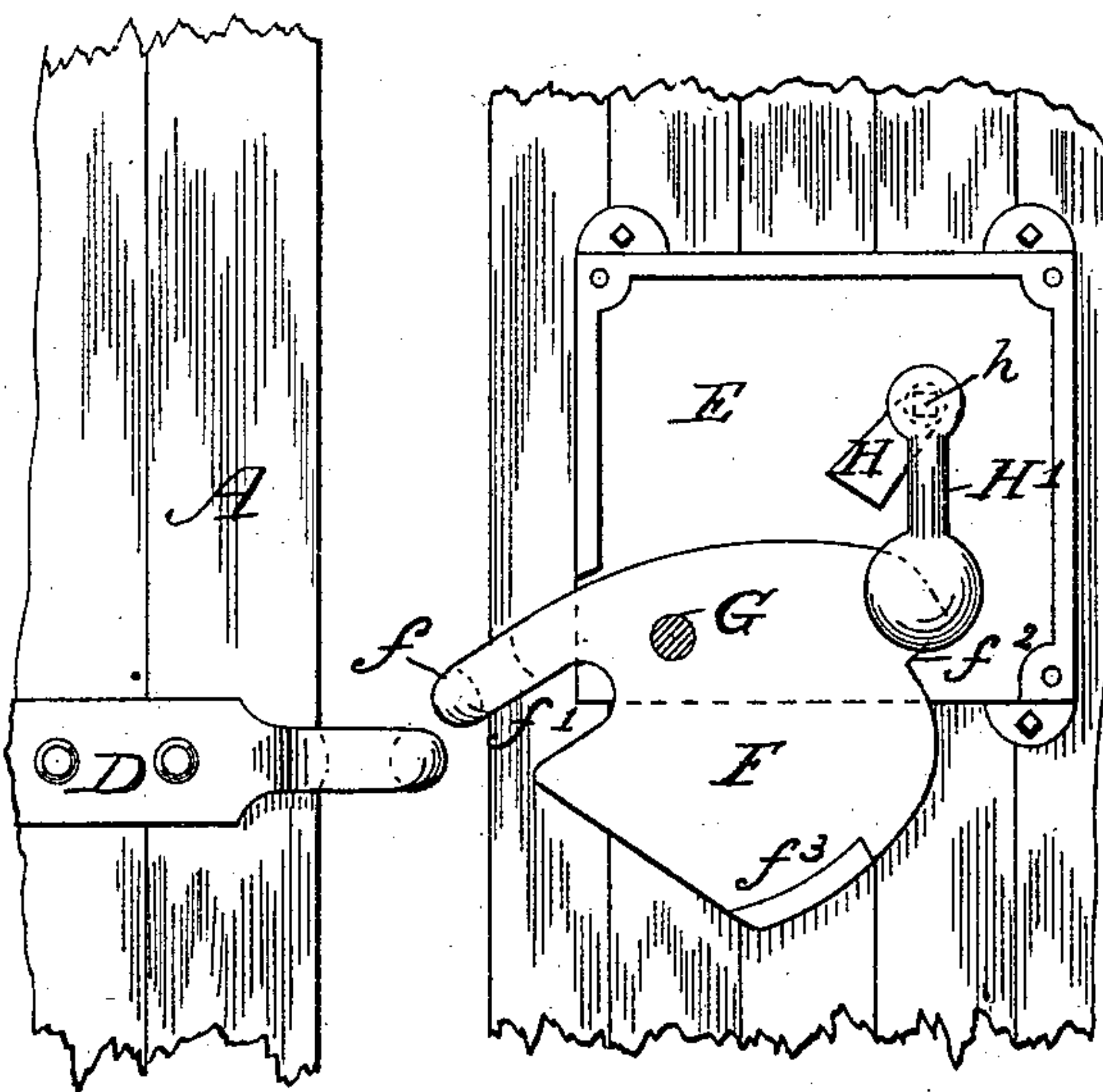


Fig. 3



Witnesses

W. B. Howe.

W. B. Hill.

Inventors

J. T. Gordon

J. H. Hamilton

By Kragin & Thurston

Attorneys

UNITED STATES PATENT OFFICE.

JAMES T. GORDON AND JOHN HENRY HAMILTON, OF CONCORD, N. H., ASSIGN-
ORS OF ONE-THIRD TO SAMUEL BARRETT, OF SAME PLACE.

SLIDING-DOOR LATCH.

SPECIFICATION forming part of Letters Patent No. 345,048, dated July 6, 1886.

Application filed May 10, 1886. Serial No. 201,681. (No model.)

To all whom it may concern:

Be it known that we, JAMES T. GORDON and JOHN HENRY HAMILTON, citizens of the United States, residing at Concord, in the county of Merrimac and State of New Hampshire, have invented certain new and useful Improvements in Sliding-Door Latches, of which the following is a specification.

These improvements relate more especially to a prior invention upon which we were granted a patent in the United States numbered 336,638, and bearing date the 23d day of February, 1886; and it consists in certain modifications, illustrated in the drawings filed herewith and forming part of this specification.

Figure 1 is a side elevation representing a section of a freight-car, to which our improved latch is applied, as when locked and sealed. Fig. 2 is a similar enlarged view with the outer plate removed. Fig. 3 illustrates the position assumed by the device when unlatched.

Similar reference-letters indicate like parts.

A is the car-door, suspended by means of rollers B B from a bar, C, affixed to the body of the car, and arranged to slide back and forth in the usual manner.

D is an eye-plate bolted to the car-door substantially in the position shown, for a purpose hereinafter described.

E is a housing for the latching device, secured to the car-body by any suitable means.

F is the swiveled latch, pivoted to the housing E at G, and so formed as that its principal weight may be located on that side of the pivot G farthest from the car-door. The latch is provided with a perforated extension, *f*, for the reception of the bow of a padlock, S, as seen in Fig. 1. The lower part of the latch F is also provided with a recess, *f'*, for the reception of the eye of the plate D. The latch is also provided with a shoulder, *f''*, against which rests a rotary dog, H, pivoted at *h* to the housing E and the outer plate or cap-piece, E'. Outside of this latter the weighted arm H' is properly secured to the shaft or pivot of said rotary dog, by which said dog H may be operated.

By reference to Figs. 2 and 3 it will be seen that the position of the arm H' relative to the dog H is such as to prevent the removal of the eye of the plate D from the recess *f'* of the latch F, and at the same time, after having been lifted and swung back for the purpose

of releasing the eye-plate from the latch, it is readily adjusted automatically by the reverse movement of the latch to that position shown in Figs. 1 and 2. This result is attained by means of the weighted arm H', which is so attached to the shaft or pivot of the dog H as to retain the said dog in either of the positions shown.

As in the case of our previous invention, above referred to, this improved latching device may be also sealed. For this purpose the ear *f''* is provided upon the latch F at the proper point to enter between the ears *e e*, formed upon the plate-piece E', and each of the ears *f'' e e* is perforated to receive the wire *i* of the seal I.

Having described the features of our improvement, what we claim as new, and desire to secure by Letters Patent, is—

1. In a sliding-door fastening, the combination, with an eye-plate secured to the door, of a swiveled latch having a perforated finger adapted to automatically enter the eye in said eye-plate while said door is sliding shut, and a rotary dog pivoted to the latch-housing, and adapted to automatically fall against a shoulder formed upon said swiveled latch and secure said locking mechanism, substantially as and in the manner set forth.

2. In a car-door fastening, the combination, with the housing, of the plate-piece having perforated ears, the swiveled latch provided with a perforated ear adapted to be swung up by the latch between the ears of said plate to form a coincident opening for the seal-wire, and the pivoted weighted dog for holding up said latch, as set forth.

3. A device for fastening car-doors, consisting of the housing E, the pivoted weighted dog H, the swiveled latch F, provided with shoulder *f''*, perforated finger *f*, and perforated ear *f''*, the eye-plate D, and the plate-piece E', having ears *e e*, perforated to form a coincident opening with that in ear *f''*, for receiving the seal-wire, as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JAMES T. GORDON.

JOHN HENRY HAMILTON.

Witnesses:

J. B. THURSTON,

FRANK S. STREETER.