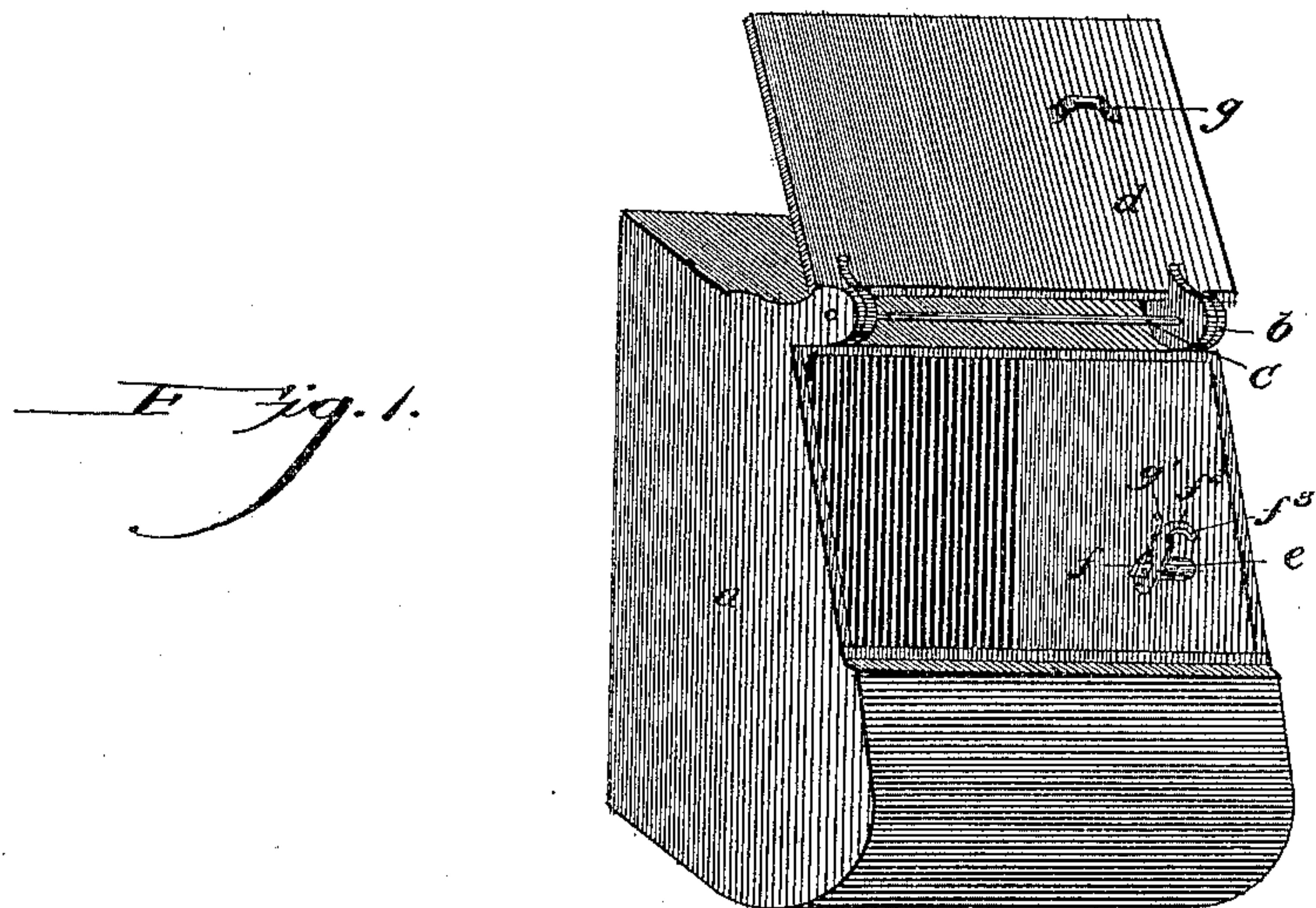


(No Model.)

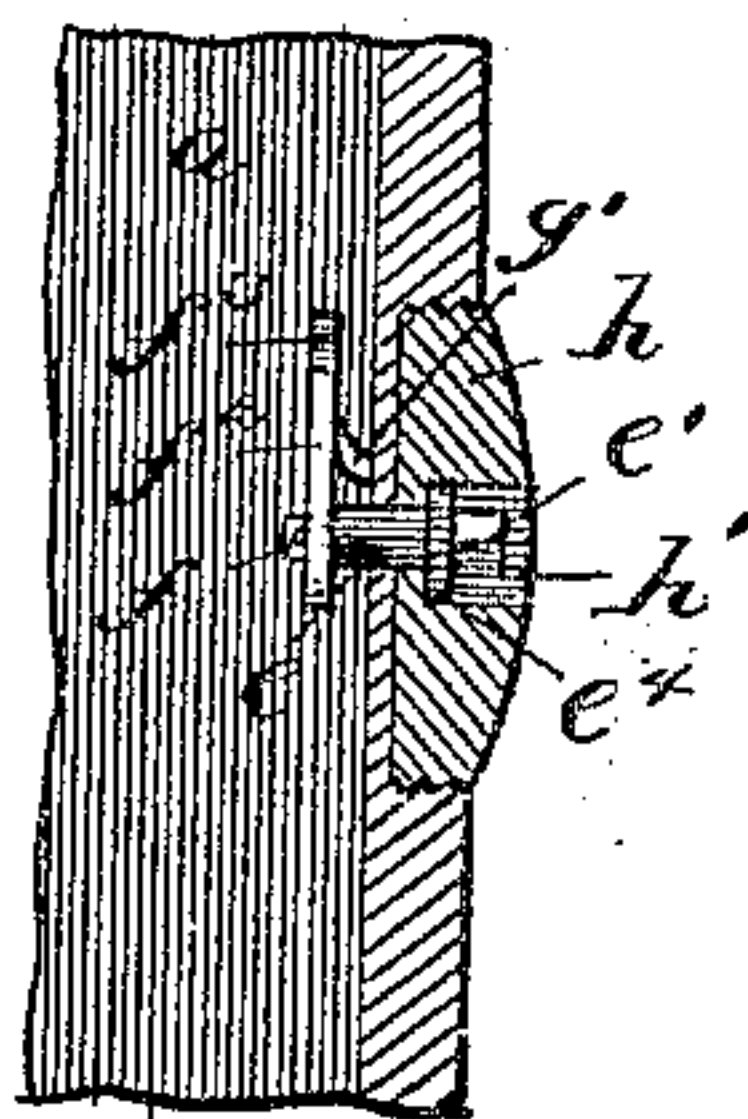
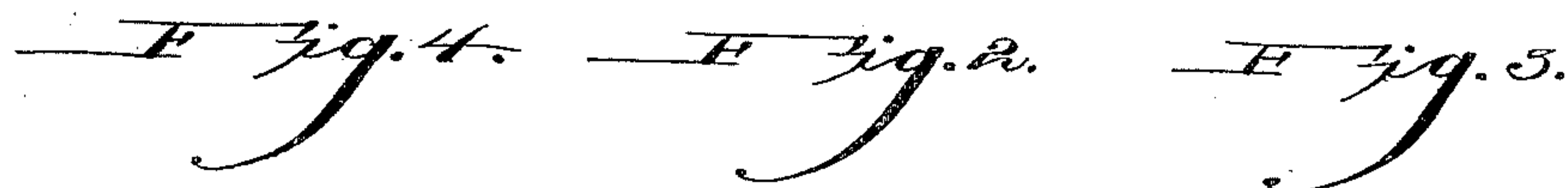
JOURNAL BOX FOR RAILROAD CARS.

No. 604,539.

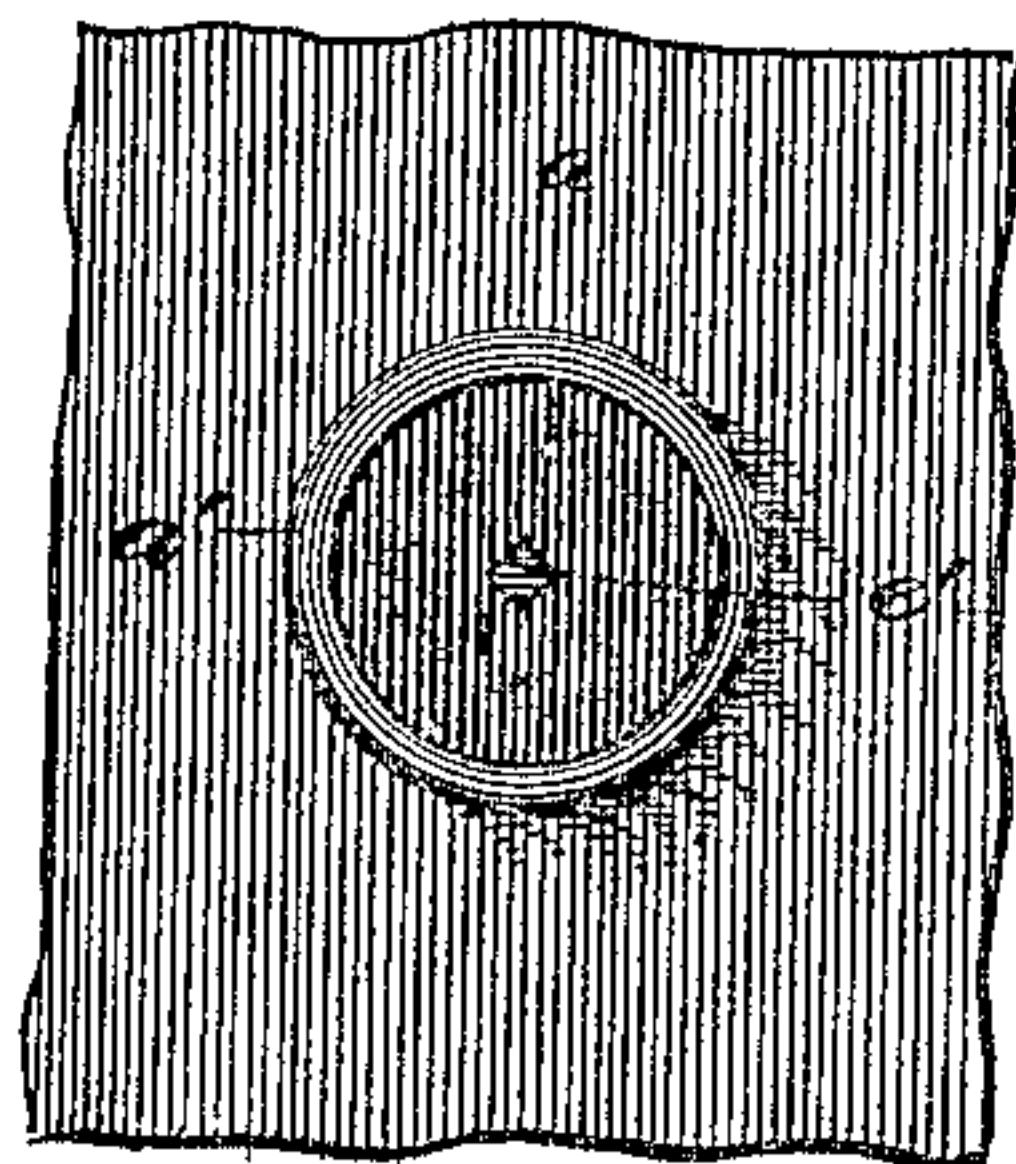
Patented May 24, 1898.



F fig. 1.



H Fig. 5.



F Fig. 6.

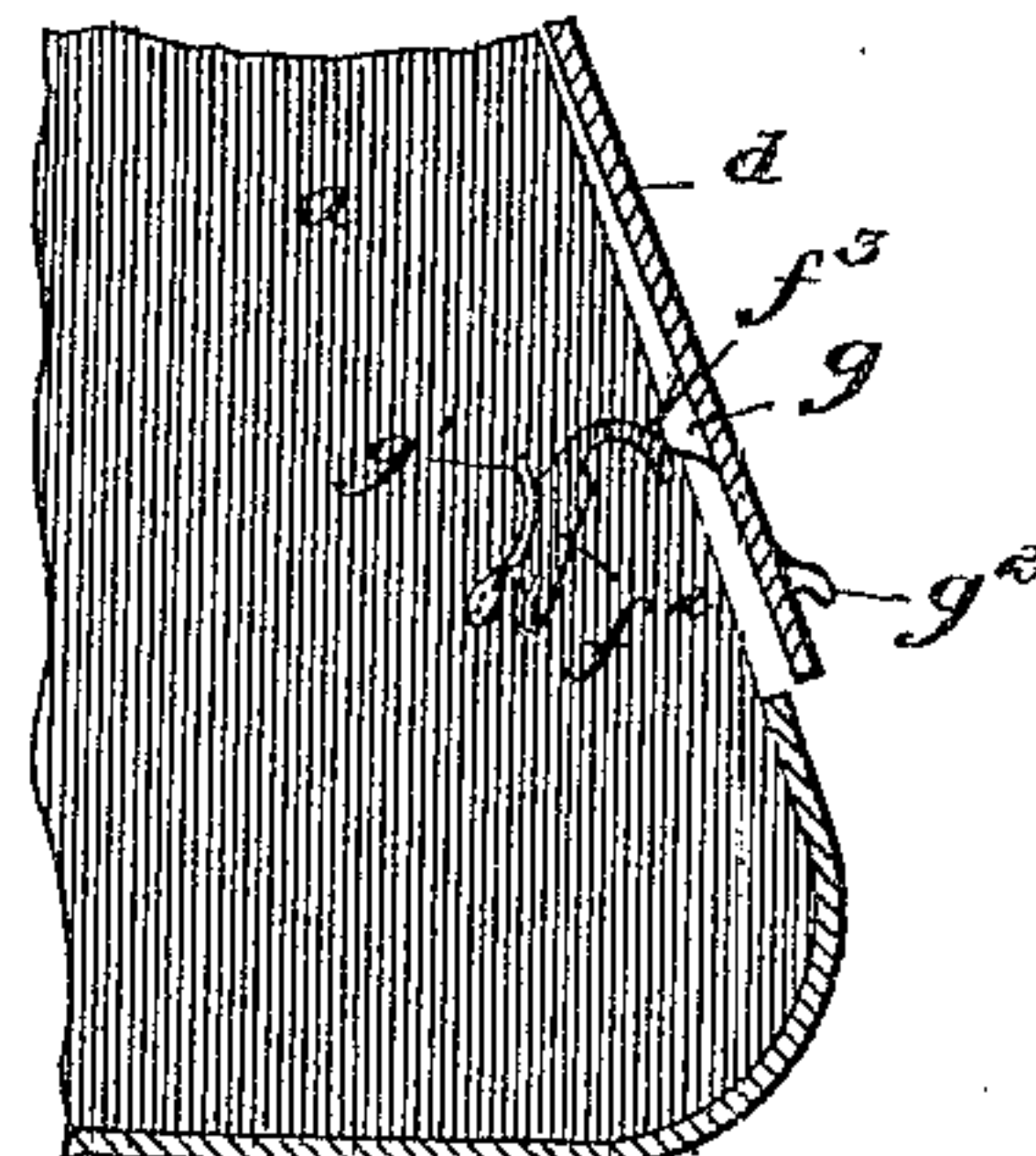


Fig. 7.

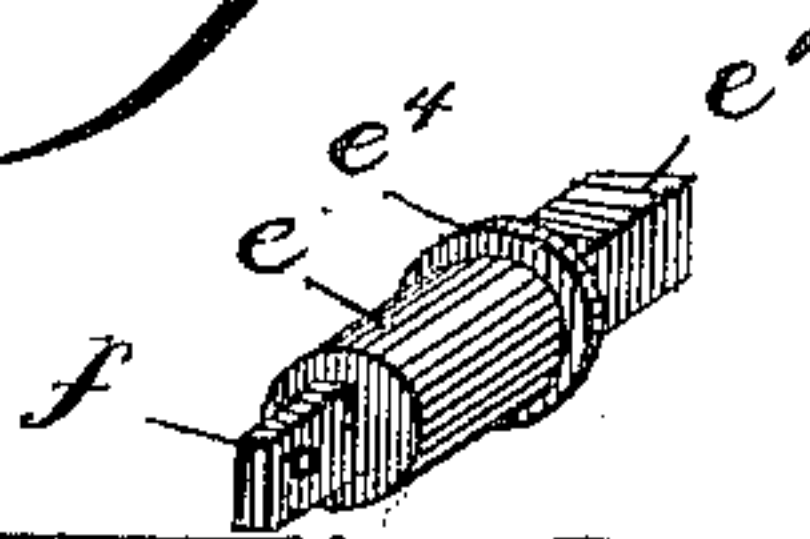
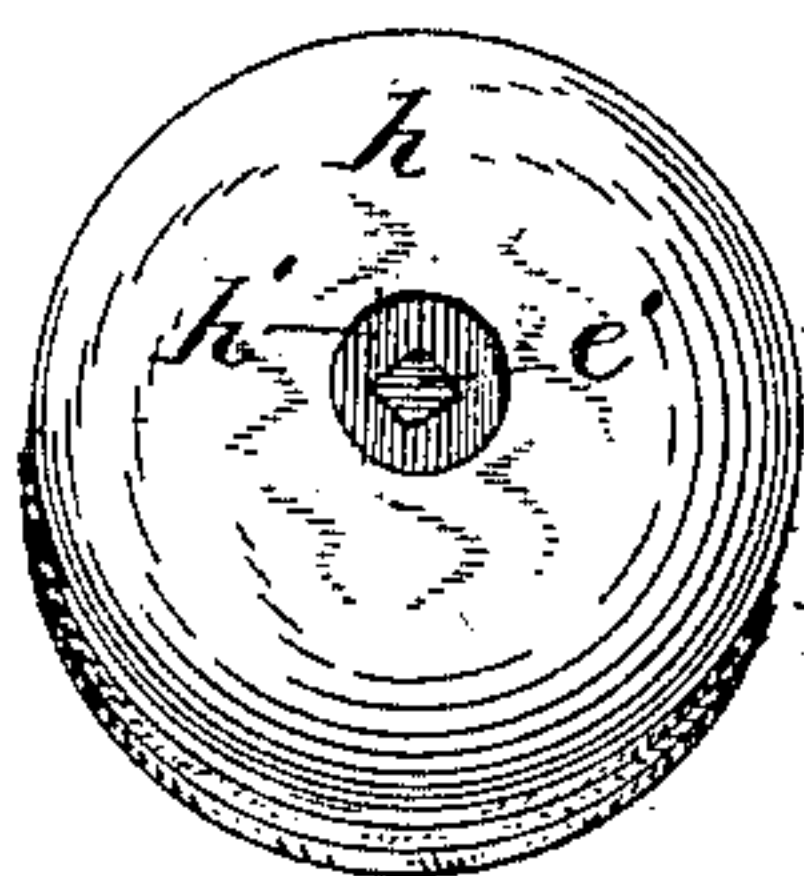
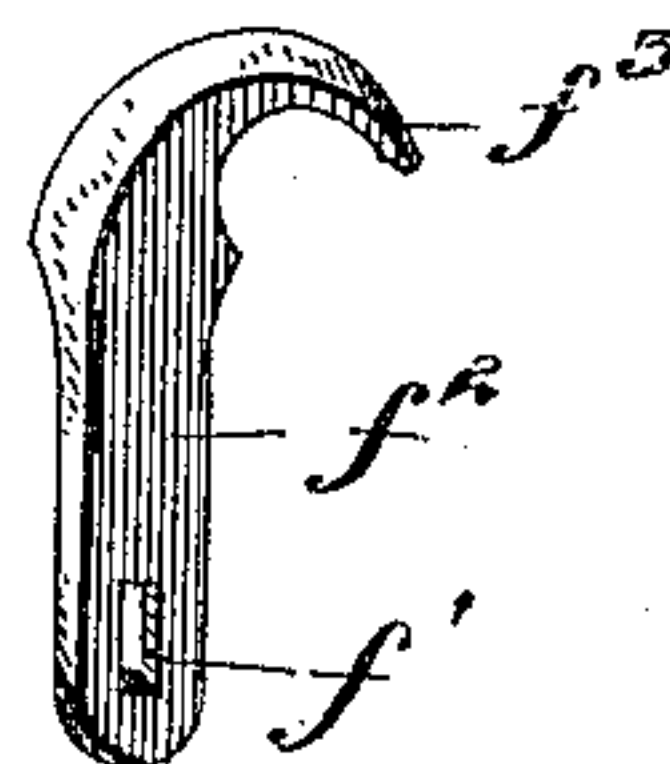


Fig. 8.



WITNESSES:
J. P. Appleman
A. M. Wilson

INVENTOR

Wesley N. Marks.

BY

Henry C. Everett.
ATTORNEY.

UNITED STATES PATENT OFFICE.

WESLEY N. MARKS, OF BRADDOCK, PENNSYLVANIA.

JOURNAL-BOX FOR RAILROAD-CARS.

SPECIFICATION forming part of Letters Patent No. 604,539, dated May 24, 1898.

Application filed December 7, 1897. Serial No. 661,097. (No model.)

To all whom it may concern:

Be it known that I, WESLEY N. MARKS, a citizen of the United States of America, residing at Braddock, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Journal-Boxes for Railroad-Cars, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in car-axle boxes, and relates to that class which surround the car-axle bearings and contain lubricating material therefor, and are provided with covers or lids adapted when closed to be firmly secured against accidental displacement or unlocked by unauthorized persons.

The object of my invention is to provide a car-axle box that will automatically lock when the lid is closed and which can only be opened by means of a specially-devised key that will be provided therefor and supplied to all inspecting-stations.

A still further object of my invention is to provide a catch for a car-axle box that may be adapted to the ordinary box now in use; and to the above ends the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more specifically described, and particularly pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like letters of reference indicate similar parts throughout the several views, in which—

Figure 1 is a perspective view of a car-axle box with my improved lock attached thereto. Fig. 2 is a side view of a portion of the box, showing the key end on the shaft that carries the lock. Fig. 3 is a vertical sectional view of a portion of the box, showing the lid in engagement with the latch or lock. Fig. 4 is a sectional view of a portion of the box, showing the application of the lock to the ordinary journal-box. Fig. 5 is a perspective view of the removable journal-block that is inserted in the ordinary box. Fig. 6 is a perspective view of the shaft for carrying the latch. Fig. 7 is a perspective view of the latch, and Fig. 8 is a perspective view of the

key and knife for handling the lubricating material.

Referring to the drawings by reference-letters, *a* represents the box, having lugs *b*, to which are hinged by means of the rods *c* the lid or cover *d*, all of which are or may be of the ordinary construction. The box has journaled in its one side a shaft *e*, which has a square or other suitably-shaped outer end *e'* to receive the correspondingly-shaped eye *e''* in the key *e'''*, the other end of said key being sharpened and flattened, so that the same may be used as a knife for handling the material that is placed in the box for retaining the lubricant. The inner end of the shaft *e* is formed with a tenon *f*, upon which is secured by means of the slot *f'* the latch or pawl *f''*, the curved end or hook *f'''* of which is adapted to be engaged by the staple *g*, secured to the underneath face of the lid *d*. This latch or pawl *f''* is retained in its position to be engaged by the said screw by means of the spring *g'*, that is suitably secured to the inner face of one side of the box and presses against the back of the pawl or catch *f''*. The lid may be provided with a projecting lug *g''* to form a catch or grip by means of which the same may be raised. In Fig. 4 I have shown the same lock attached to the ordinary journal-box. The journal-box is provided on the side with a screw-threaded recess to receive journal-block *h*, the outer side of which is rounded to prevent the same being injured by a knock or blow. This block *h* is provided with a central recess *h'*, so that the key end *e'* of the shaft *e* will be protected within the block, the said shaft being provided with a collar or flange *e''''*, that rests on the block at the bottom of the recess *h'*. The dog or catch *f''* is of the same construction and is secured on the tenon *f* by means of a pin or other suitable fastening, as is employed in the former construction.

When the box is constructed in accordance with Figs. 1 and 2, the key end of the shaft may be protected by means of the annular projection *a'*, formed on the outer face of that side of the box in which the shaft is journaled. When the lid is opened and the same is brought down on the front of the box, the staple *g* will come into engagement with the hook end *f'''* of the catch or lock and

depress the same sufficiently to admit of the lid seating itself in its position, at which time the staple will have passed beyond the hook, and the spring g' will serve to enter the hook
5 end of the latch into engagement with the staple. This latch or lock may be readily removed by means of the key e^3 , which, as heretofore stated, may also be employed for inserting and removing the material that is
10 placed in the journal-box for retaining the lubricant. It will also be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

15 Having fully described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

A journal-box, a lid hinged thereto, a staple secured to the inner face of said lid, a shaft journaled in the box, and a spring-actuated 20 catch secured to one end of the shaft, said spring forcing the catch into engagement with the staple when the lid is closed, substantially as shown and described.

In testimony whereof I affix my signature 25 in presence of two witnesses.

WESLEY N. MARKS.

Witnesses:

JOHN NOLAND,
W. L. MOORE.