

No. 832,347.

PATENTED OCT. 2, 1906.

G. L. SUMMERS.
CHECK HOLDER FOR DUMP CARS.
APPLICATION FILED APR. 19, 1906.

Fig. 1.

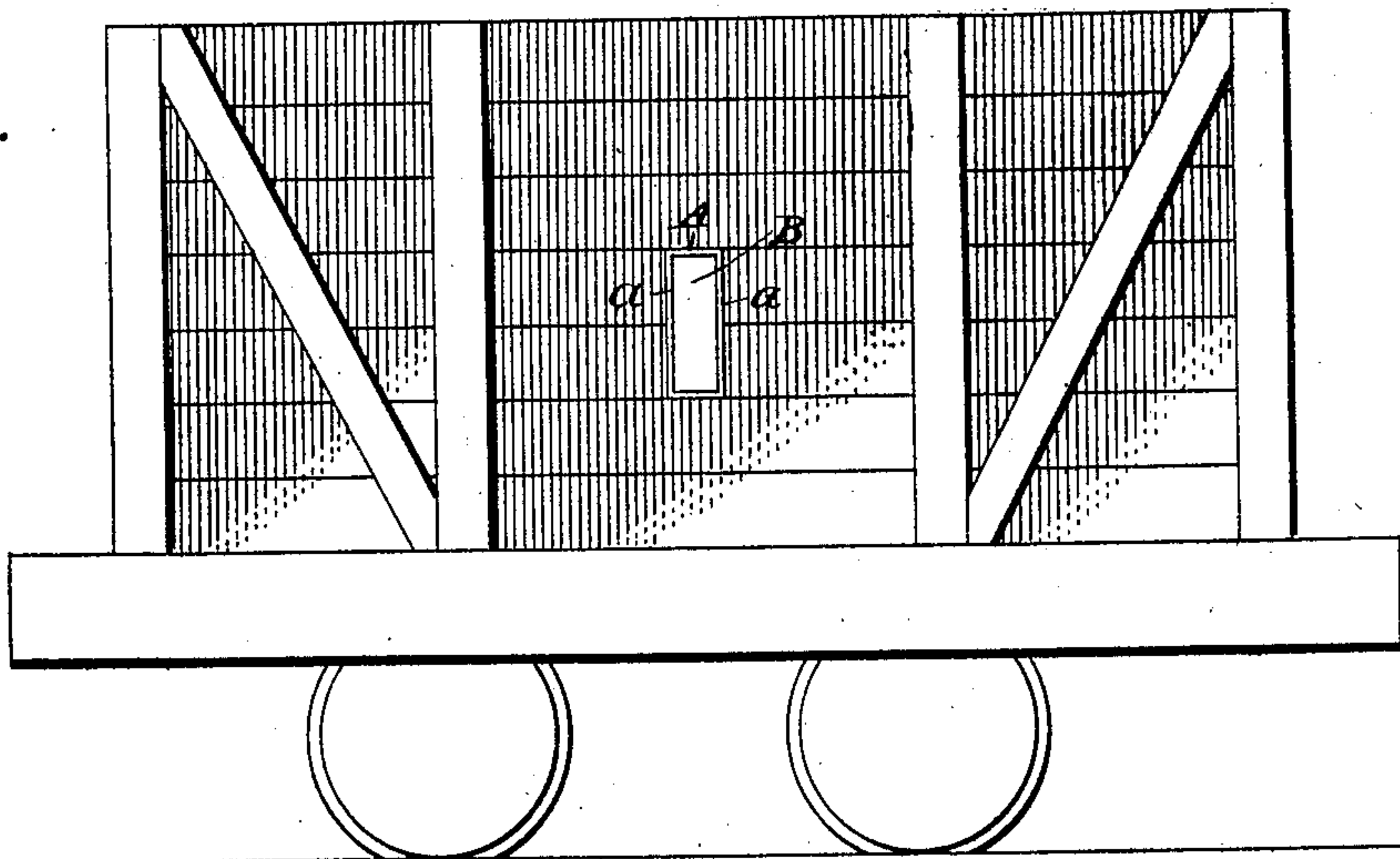


Fig. 2.

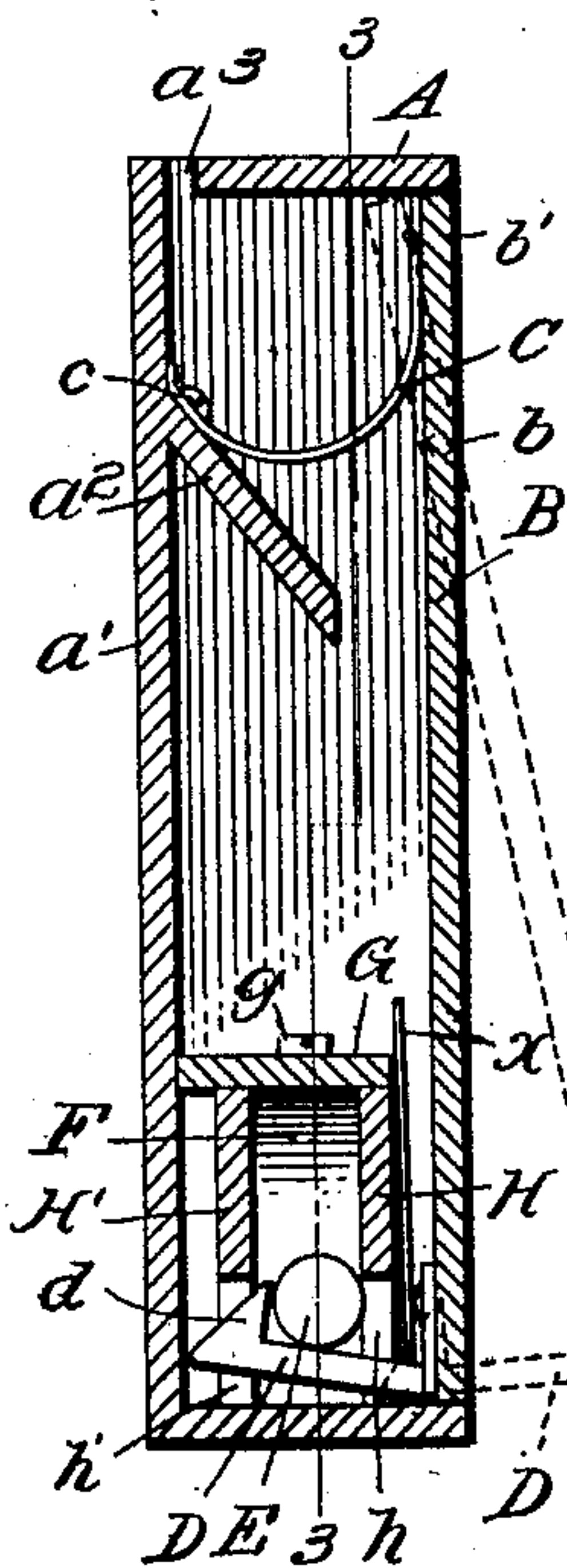


Fig. 3.

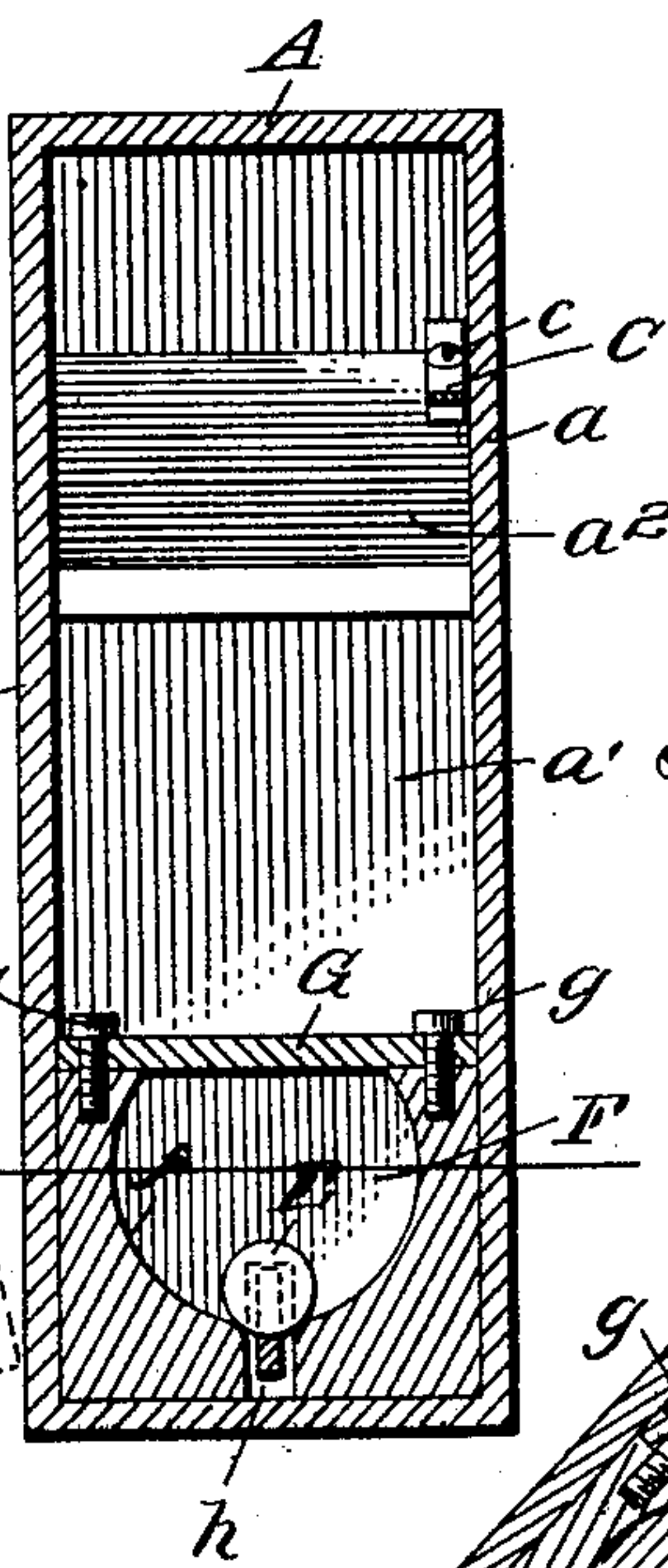


Fig. 5.

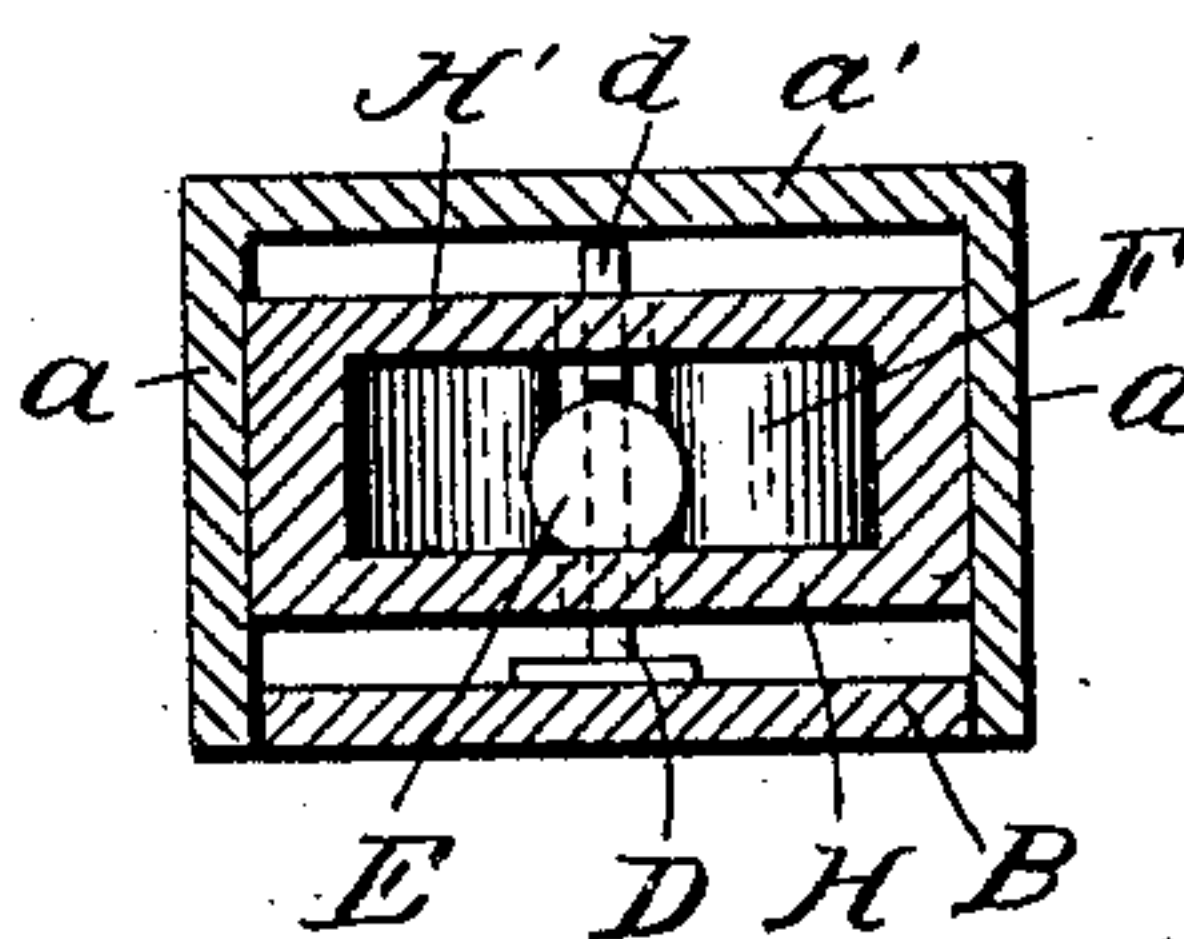
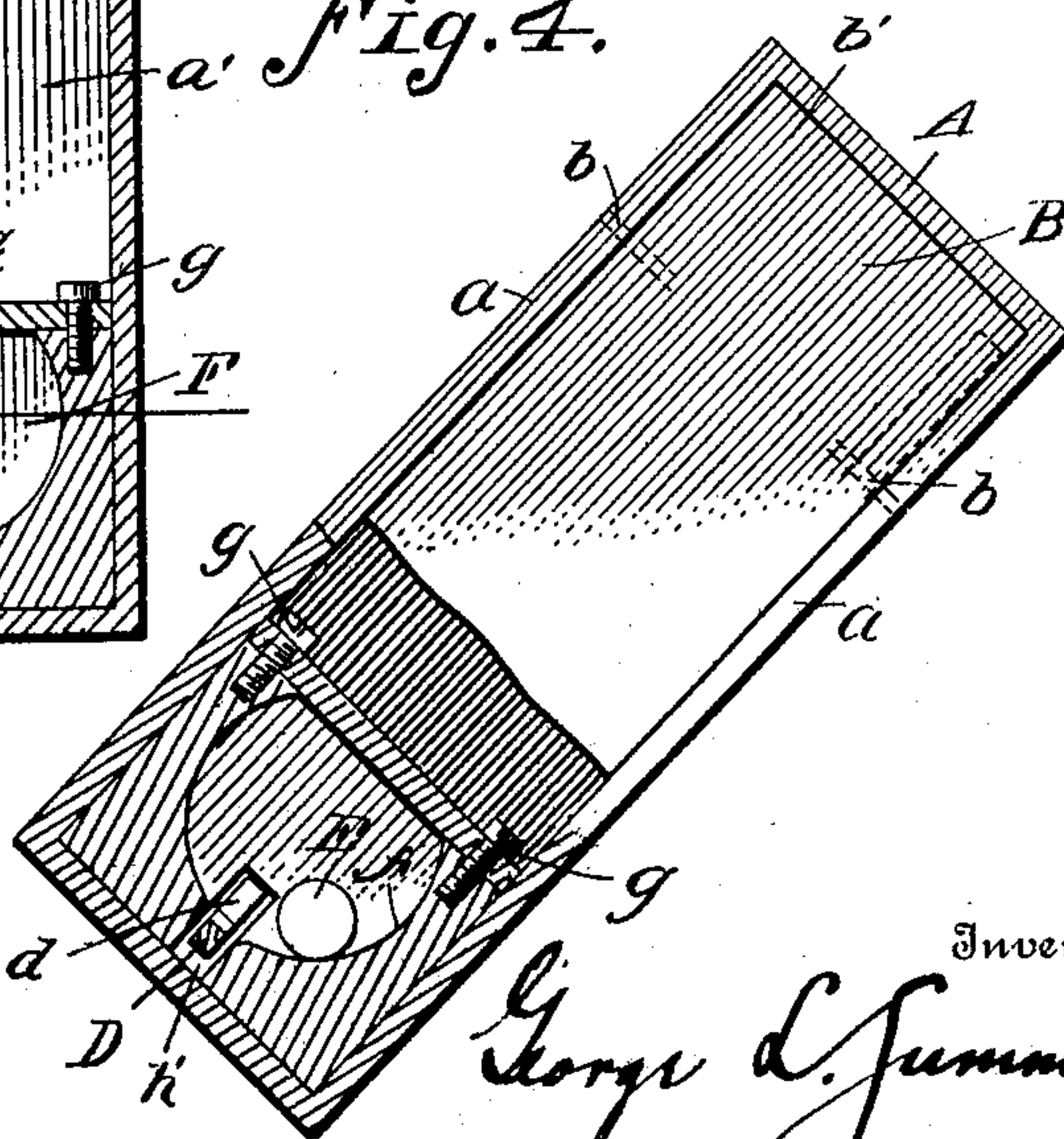


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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CHECK-HOLDER FOR DUMP-CARS.

No. 832,347.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed April 19, 1906. Serial No. 312,690.

To all whom it may concern:

Be it known that I, GEORGE L. SUMMERS, a citizen of the United States of America, and a resident of Huntington, county of Cabell, State of West Virginia, have invented certain new and useful Improvements in Check-Holders for Dump-Cars, of which the following is a full and clear specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a mining-car, showing my device attached thereto; Fig. 2, a vertical sectional view of the receptacle detached; Fig. 3, a vertical sectional view taken at right angles to the line on which Fig. 2 is taken; Fig. 4, a side elevation, partly in section, showing the receptacle as it appears when tilted by the dumping of the car; and Fig. 5 a horizontal section on the line 5 5 of Fig. 3.

The object of this invention is to provide a simple attachment to mining-cars whereby the miner's check will be automatically locked against removal by mischievous or evilly-disposed persons while the car is on its way to the tippie and whereby when the car is tilted to dump it the check-holding devices will be automatically released by the tilting of the car, so that the weighmaster or other attendant at the dump may readily extract the check from the receptacle, as more fully hereinafter set forth.

To the accomplishment of this object and such others as may hereinafter appear the invention consists of the parts and combination of parts hereinafter fully described, and particularly pointed out in the appended claims, reference being had to the accompanying drawings, forming a part of this specification, in which the same reference characters designate like parts throughout the several views.

Referring to the drawings annexed by reference characters, A designates a substantially oblong box which is adapted for attachment to the side of a car and whose front wall B is hinged at its opposite edges on pivots *b*. A slot *a*³ is formed in the upper end of the receptacle for the insertion of the check. A spring C, inclosed within the box and fastened to the rear wall thereof at *c*, serves to normally swing the lower end of the door B inward to a closed position. An inwardly and downwardly inclined ledge *a*² serves to direct the falling check forward and also to

prevent extraction of the check up through the slot *a*³.

Attached to the door B is a hook D, which is provided at its inner end with an upturned nose or shoulder *d* and which extends into the box. This hook when the door is closed extends through coincident slots *h h'*, formed at the lower ends of a pair of upright walls H H', on the top of which is removably fastened a cover-plate G by means of screws *g*. Between the walls H H' is fastened a block *f*, in which is formed an approximately semi-circular chamber F. This block *f* is slotted coincidently with the slots *h h'* for the passage therethrough of the hook D. A ball E or other rolling detent is confined in the chamber F and normally rests in line with the slots *h h'* and in the path of the nose *d* of the hook, so that when the door is closed this detent normally rolls in front of the nose *d*, and thereby locks the hook against withdrawal.

When the check is dropped into the box, it slides off the ledge *a*² and comes to rest in a pocket between the front wall H and the door, the check being shown at *x* in Fig. 2. When the car is tilted to dump it, the ball E rolls to one side, as shown in Fig. 4, thereby releasing the hook. The door may then be opened by simply pressing inward upon its upper end at a point above the pivots *b*, which act swings the lower end of the door open, as shown in Fig. 2. As the door swings open the nose *d* engages the lower edge of the check *x* and discharges it into the hand of the attendant. It will thus be observed that I provide an extremely simple device for locking the check against removal while the car is on its way to the dump and whereby the act of dumping the car automatically adjusts the parts so that the dump-master can readily remove the check.

It will be apparent to those skilled in the art that various mechanical embodiments of the invention are possible, and I therefore do not wish to be limited to the exact arrangement and construction shown, except as required by the scope of the appended claims.

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

1. A device of the class set forth, consisting of a box provided with a slot for the insertion of the check and with a door adapted to swing outwardly at its lower end, means for holding the door normally closed, a hook

attached to the door and adapted to enter the box, a chamber surrounding the hook within the box, and a rolling detent inclosed in this chamber and adapted to normally engage and lock the hook.

2. In a device of the class set forth, a box provided with a slot for the insertion of the check and with a swinging door adapted to open outwardly at its lower end, a lock-hook carried by the door, and a rolling detent in the box, and means whereby this detent is caused to lock the hook while the box is in an upright position.

3. In a device of the class set forth, a check-receptacle provided with a check-insertion slot and with an outwardly-swinging door, means inclosed in the receptacle for locking the door when the receptacle is in normal position and for unlocking it when in abnormal position.

4. In a device of the class set forth, the combination of a check-receiving box provided with a check-insertion opening and an outwardly-swinging door, means for auto-

matically locking the door closed when the receptacle is in a normal position and for ejecting the check by the act of opening the door.

5. In combination, a box provided with a check-receiving slot in its top and having one of its walls made into a door which swings outwardly at its lower end, means for normally closing the door, an inclined ledge within the box, a hook carried at the lower end of the door and adapted to enter the box, a chamber in the box slotted for the passage of said hook, and a gravitating locking device inclosed in said chamber and coöperating with said hook to lock the door closed, substantially as and for the purpose set forth.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 17th day of April, 1906.

GEO. L. SUMMERS.

Witnesses:

EDWARD F. CLARKE,
TH. J. DE SABLE.