

(No Model.)

W. A. McCLINTOCK.
Grain Car Door.

No. 229,440.

Patented June 29, 1880.

Fig. 1.

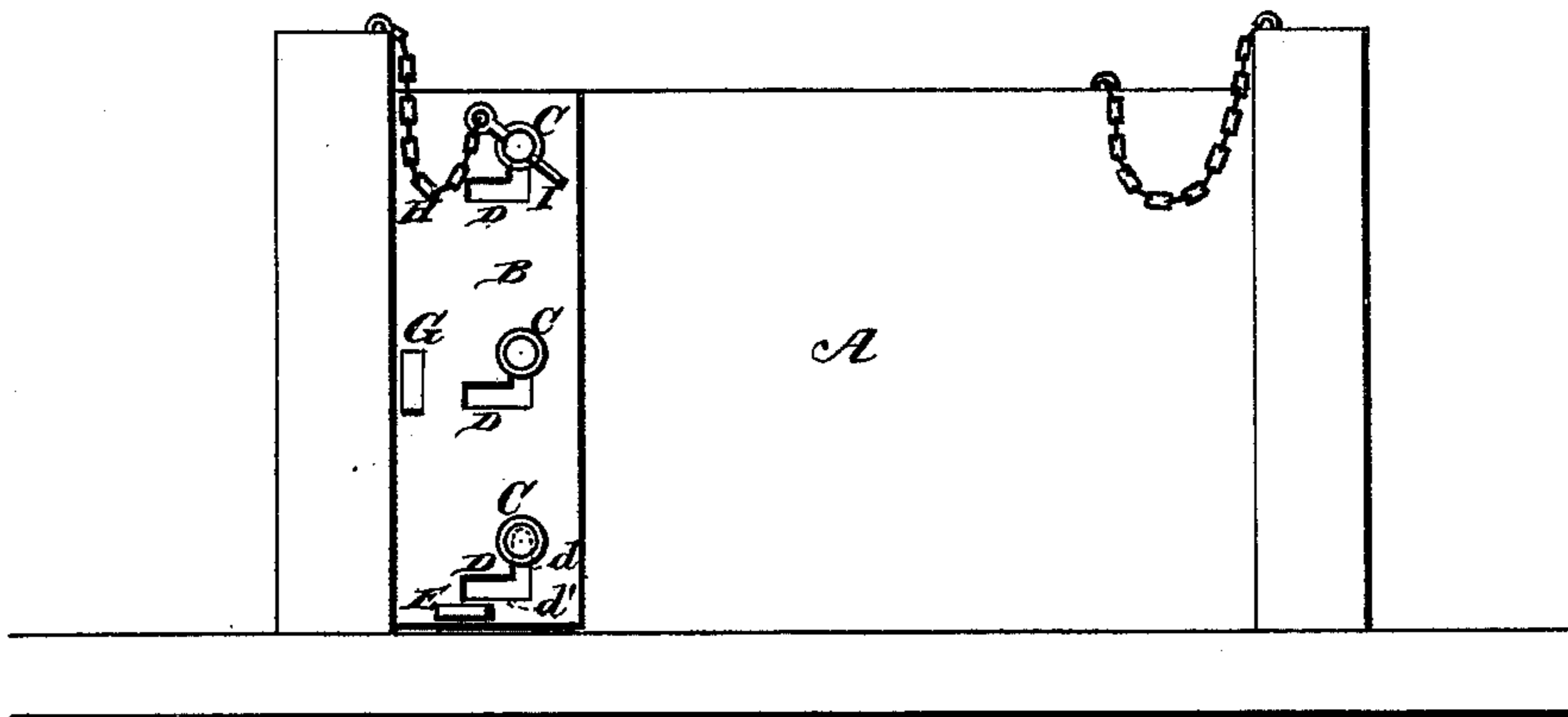
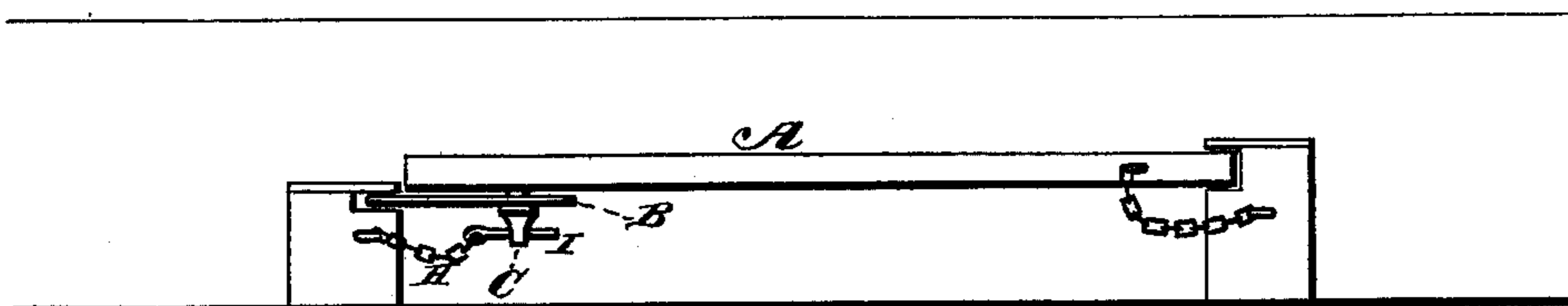


Fig. 2.



WITNESSES
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UNITED STATES PATENT OFFICE.

WILLIAM A. McCLINTOCK, OF CERRO GORDO, ILLINOIS, ASSIGNOR OF TWO-THIRDS OF HIS RIGHT TO JNO. CRIPE, JR., E. R. SAYLER, AND W. M. HARSHA, OF SAME PLACE.

GRAIN-CAR DOOR.

SPECIFICATION forming part of Letters Patent No. 229,440, dated June 29, 1880.

Application filed April 30, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. McCLINTOCK, of Cerro Gordo, in the county of Piatt and State of Illinois, have invented certain
5 new and useful Improvements in Grain-Doors for Cars; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and
10 to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front of my car-door, and Fig. 2 is a plan
15 view of the same.

The present invention relates to grain-doors for cars.

The object of the invention is to provide means whereby the fastening of the door will
20 not be liable to breakage, and also whereby the door may be easily unfastened and opened outwardly.

To this end the invention consists in a novel means for locking or unlocking the door, as
25 will be fully described in the following specification and particularly pointed out in the claim.

A designates the door, which is held in suitable grooves in the door-posts, one edge of the
30 door projecting into one of said grooves and the plate B into the other, as shown; or the edge of the door may be hinged, if desired.

The locking-plate is held to the door by studs C, which pass through slots D, formed in the
35 locking-plate. The locking-plate is adapted

to have both a vertical and a horizontal movement, and to this end these slots are each formed with a vertical portion, *a*, and a horizontal portion, *a'*.

When the locking-plate is lowered so that
40 the studs will be in the vertical portions of the slots the plate will project into a groove in one of the door-posts, and the door will be locked.

When the plate is raised and then moved
45 laterally away from the groove, so as to clear it, the door will then be left free to be opened.

To raise the plate vertically a crow-bar will be applied under a projection, E, upon the
plate, and when the locking-plate is to be
50 moved laterally from the slot the crow-bar will be applied against a projection, G, upon the plate

H is a chain having a bolt, I, which is to be passed through one of the studs in order to
55 the more securely lock the locking-plate.

What I claim is—

The combination of the car-door A with the locking-plate B, formed with vertical and horizontal slots and projections E G, and the studs
60 passed through the slots of the locking-plate, substantially as set forth, and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence
65 of two witnesses.

WILLIAM ALBERT McCLINTOCK.

Witnesses:

W. L. REED,
HENRY ZINN.