

LONG & LAVEY.

Dumping Car.

No. 78,383.

Patented May 26, 1868.

Fig. 1.

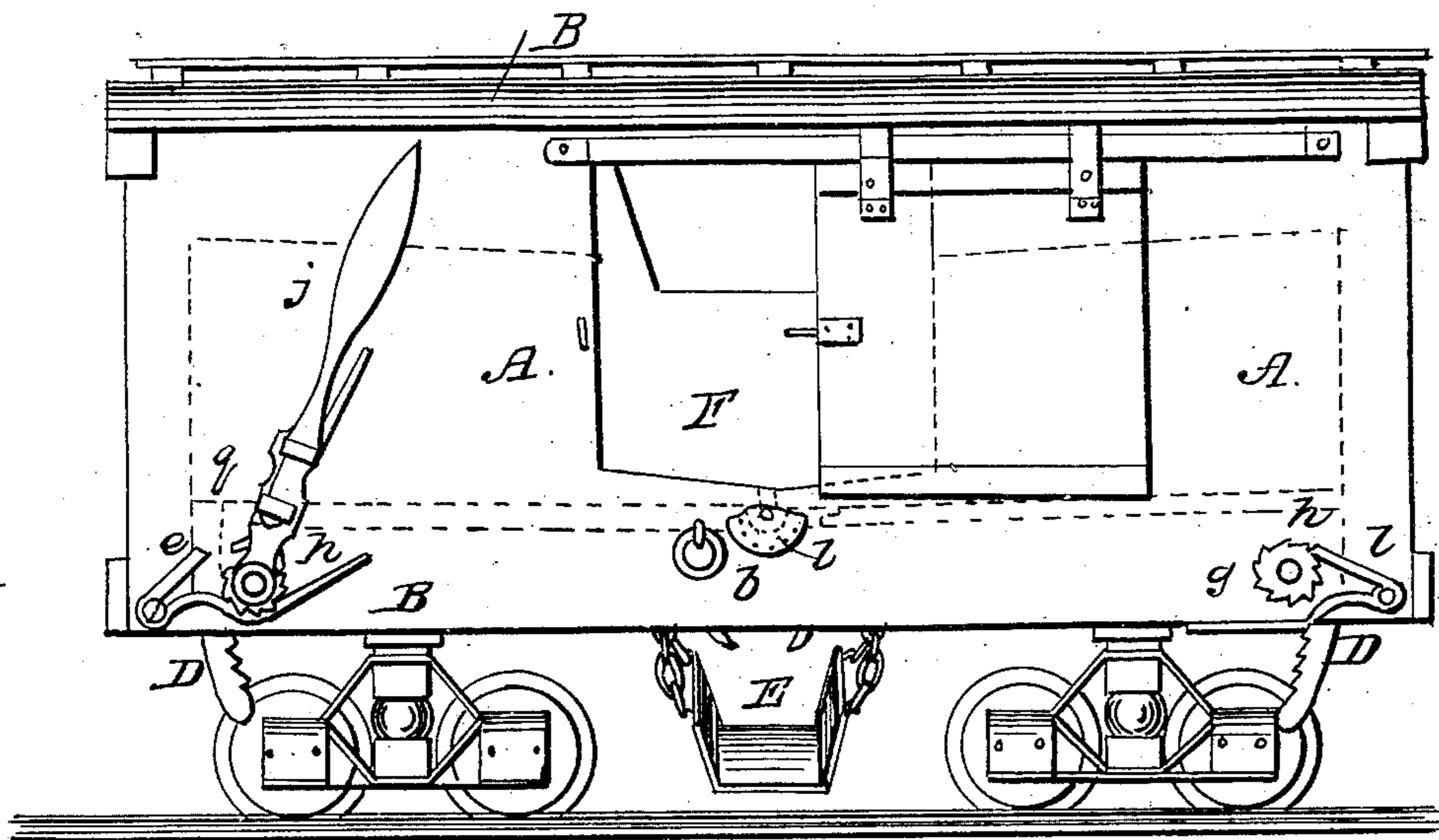
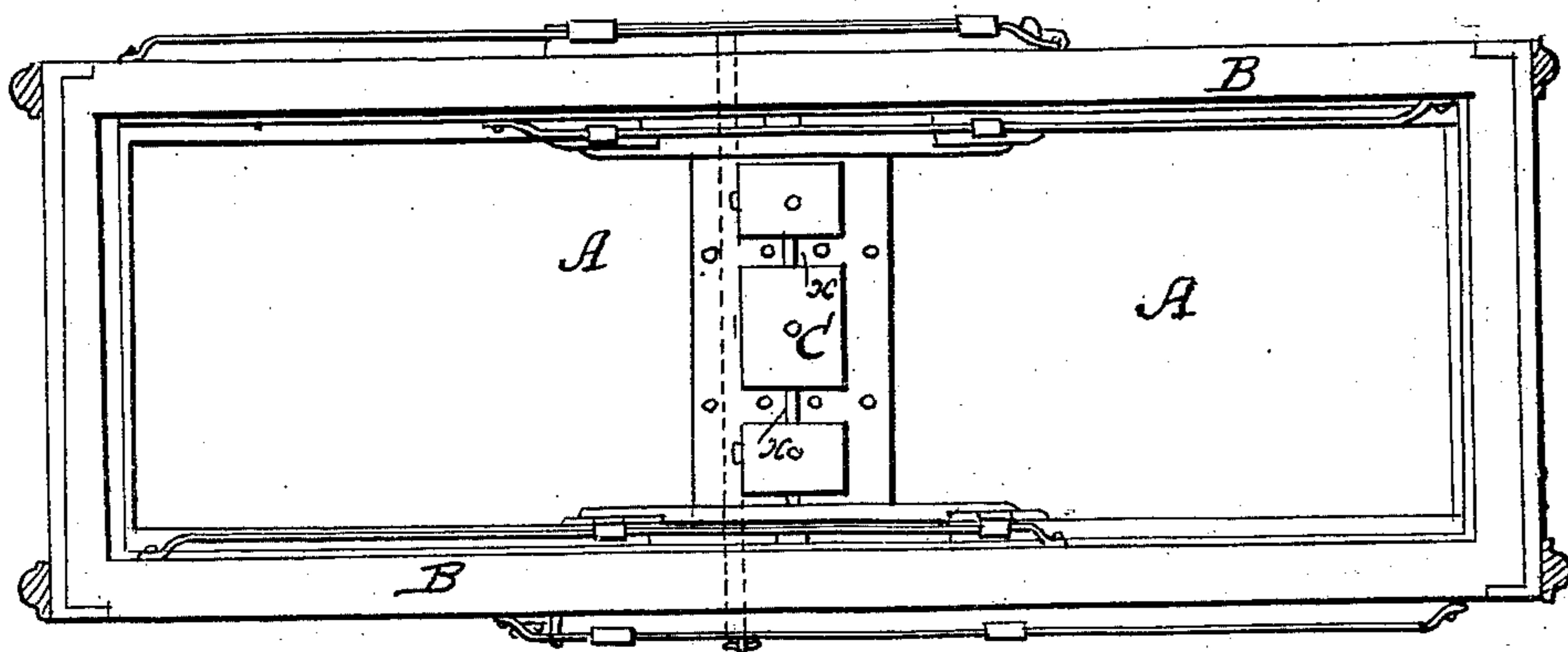


Fig. 2.



Witnesses

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Inventors

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# United States Patent Office.

W. A. LONG AND J. E. LAVEY, OF PLYMOUTH, INDIANA.

*Letters Patent No. 78,383, dated May 26, 1868.*

## IMPROVEMENT IN GRAIN-CARS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that we, W. A. LONG and J. E. LAVEY, of Plymouth, in the county of Marshall, and in the State of Indiana, have invented new and useful Improvements in Grain-Cars; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon.

In the annexed drawings, making a part of this specification, A represents a box made in two parts, or two boxes, with the ends next to each other out away, and the bottom of said ends hinged together, as will be seen at *x*. The rod which holds the two parts or hinges together has secured to it valves or gates, C, as shown, by or through which grain may be discharged from the box A. The box A is made so as to fit, and is adjusted inside of an ordinary house-car, B.

The car B is made in the usual form, and has a shaft, *g*, extending across each end thereof, to one end of which is one ratchet-wheel, and to the other two ratchet-wheels, *h*, one on the outside of the car, which is operated by means of a suitable lever, *j*. The two on the inside of the car mesh with the curved ratchet-bars D D, which are secured to the hinged box A, one at each corner thereof, by which means the outer or opposite ends of the box A may be elevated, so as to incline the bottom thereof toward the centre of the car, and the grain caused to flow or run out at the gate C.

The lever *j* is adjustable, and is provided with a square hole in its shank, which forms a key to fit on the outer end of the shaft *x*, and thereby open or close the same. Said lever is also provided with a double pawl, so as to work either way or at either end of the car, as the case may be.

The car is provided with a suitable spout, extending down from the bottom thereof just under the gate C, and leading into the trough E.

Said trough E is hung, by means of chains, to suitable hooks, so as to be adjusted at any distance from the bottom of the car that may be desired.

A perforated plate, *b*, is secured to the outer end of the rod *x*, so that the gate may be adjusted in any way or place desired by putting a pin through one of said perforations.

Hung to the upper side of the car B are doors, F, bevelled or cut off at an angle at the bottom, as shown, for the purpose of closing the opening between the ends of the boxes where they are hinged.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The arrangement of the boxes A A, with the revolving gate C between, and rack-bars D D, shafts *g*, and cog-wheels operated by the levers *j*, and placed at the outer ends of the boxes, substantially as and for the purposes specified.

In testimony that we claim the foregoing, we have hereunto set our hands, this 3d day of February, 1868.

W. A. LONG,  
J. E. LAVEY.

Witnesses:

O. P. KLINGEN,  
C. A. RATHBURN.