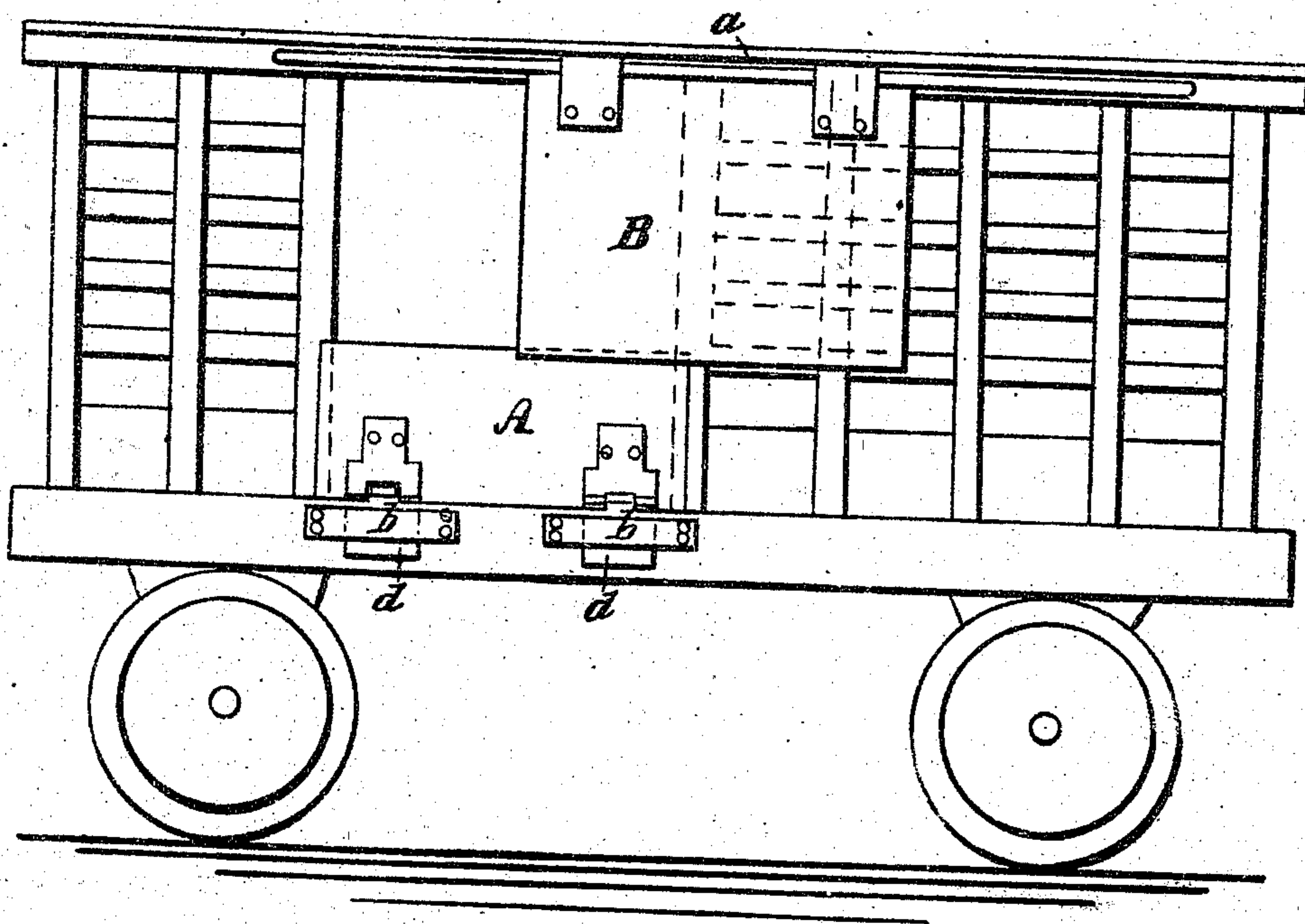


T. R. LEIGHTON.

Car Door.

No. 87,685.

Patented March 9, 1869.



Witnesses;
A. Ammen
H. A. Morgan

Inventor
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per *[Signature]*
Attorneys.

United States Patent Office.

THOMAS R. LEIGHTON, OF CAMERON, MISSOURI.

Letters Patent No. 87,685, dated March 9, 1869.

IMPROVED RAILWAY-CAR DOOR.

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

To all whom it may concern:

Be it known that I, THOMAS R. LEIGHTON, of Cameron, in the county of Clinton, and State of Missouri, have invented a new and improved Car-Door; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which the drawing represents a side elevation of a box-car provided with my improvement.

My invention consists, first, in a lower door, A, which is attached by hinges to the bed-frame of the car, so as to open outward and downward, and thus form a short platform, forming part of the car. This arrangement of the door facilitates the ingress or egress of cattle carried by rail.

The whole door, as shown in the drawing, will be seen to consist of an upper part, B, and the lower part A, before mentioned.

The upper part B slides laterally on the rod *a*, on which it hangs, whereby it may be easily pushed aside, still leaving the lower part in place.

The hinges of the lower part are made easily removable, by any suitable means, so that the said part may be removed to discharge freight, when there is not room to swing the same outward on its hinges.

An example of such an occasion would be when the car is close to a wall.

The simplest form of a detachable hinge is shown. It consists in slipping the lower part *d* of each hinge in a socket, or staple, *b*, affixed to the bed-frame of the car.

The value of the above invention has been shown, by practical use, to be exceedingly valuable and efficacious in facilitating the transportation of grain in bulk, cattle, hogs, and general freight, such as box-cars are used for.

Having thus described my invention,

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

1. The combination, with the door A, of the door B, substantially as and for the purpose shown and described.

2. The detachable hinged door A of a box-car, substantially as and for the purpose shown and described.

The above specification of my invention signed by me, this day of , 1868.

T. R. LEIGHTON.

Witnesses:

D. G. SHUTT,
THOMAS LEONARD.