

(No Model.)

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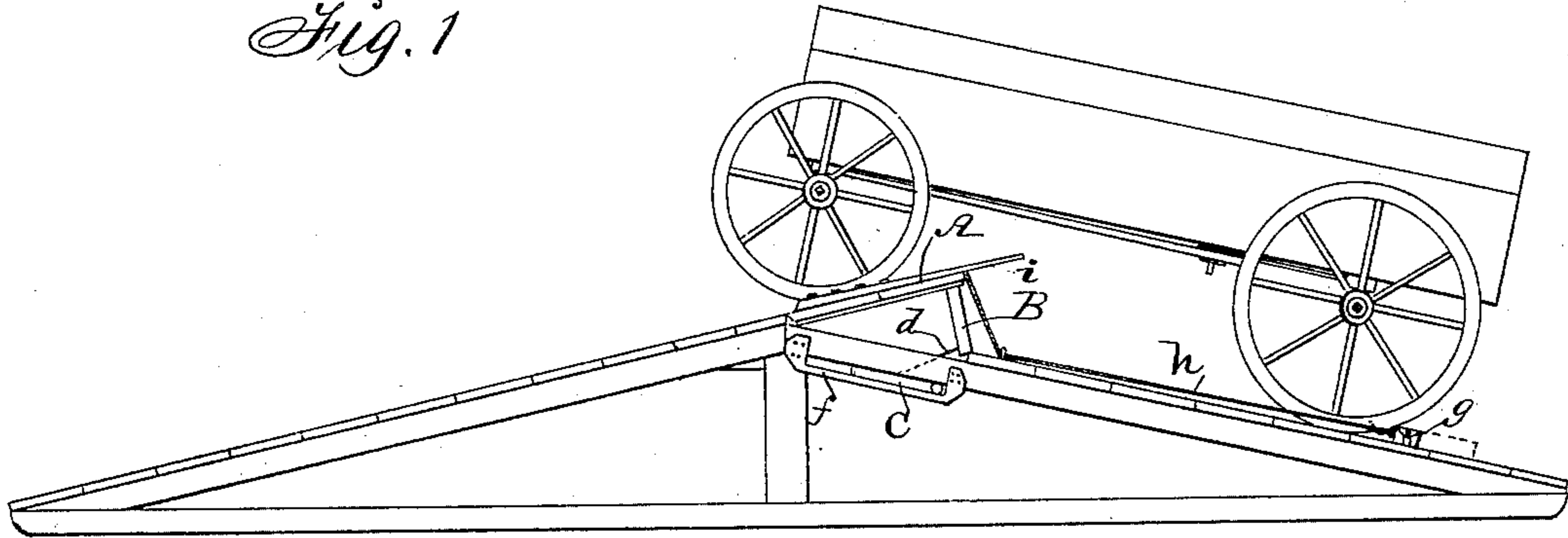
A. L. GRINNELL.

DUMPING PLATFORM.

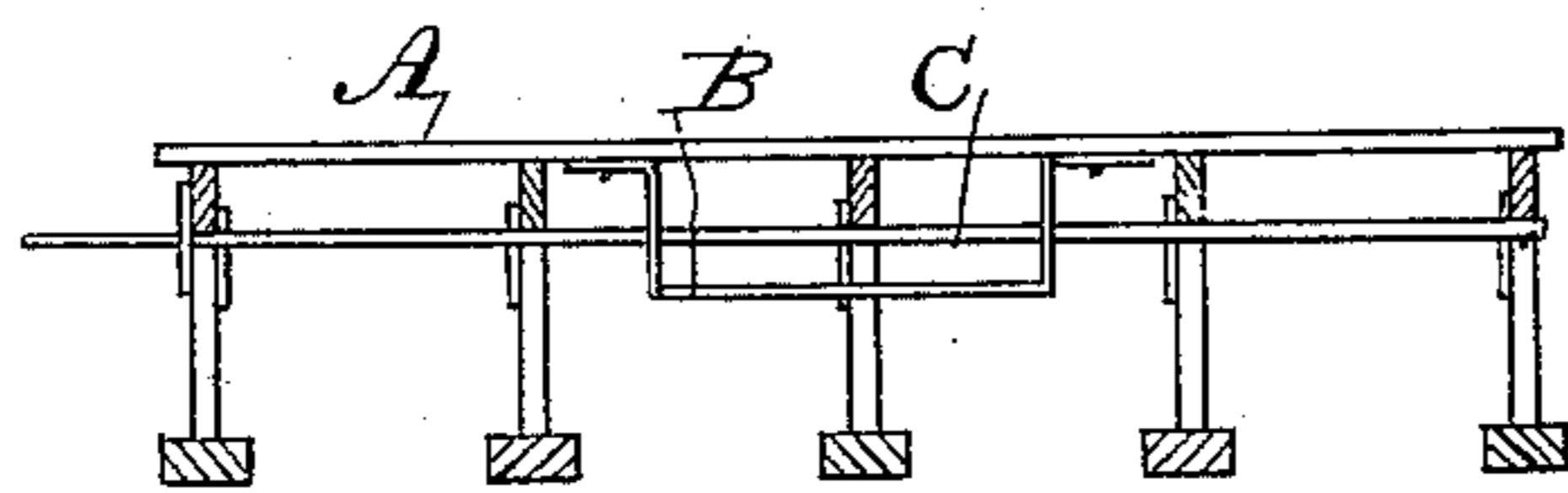
No. 360,436.

Patented Apr. 5, 1887.

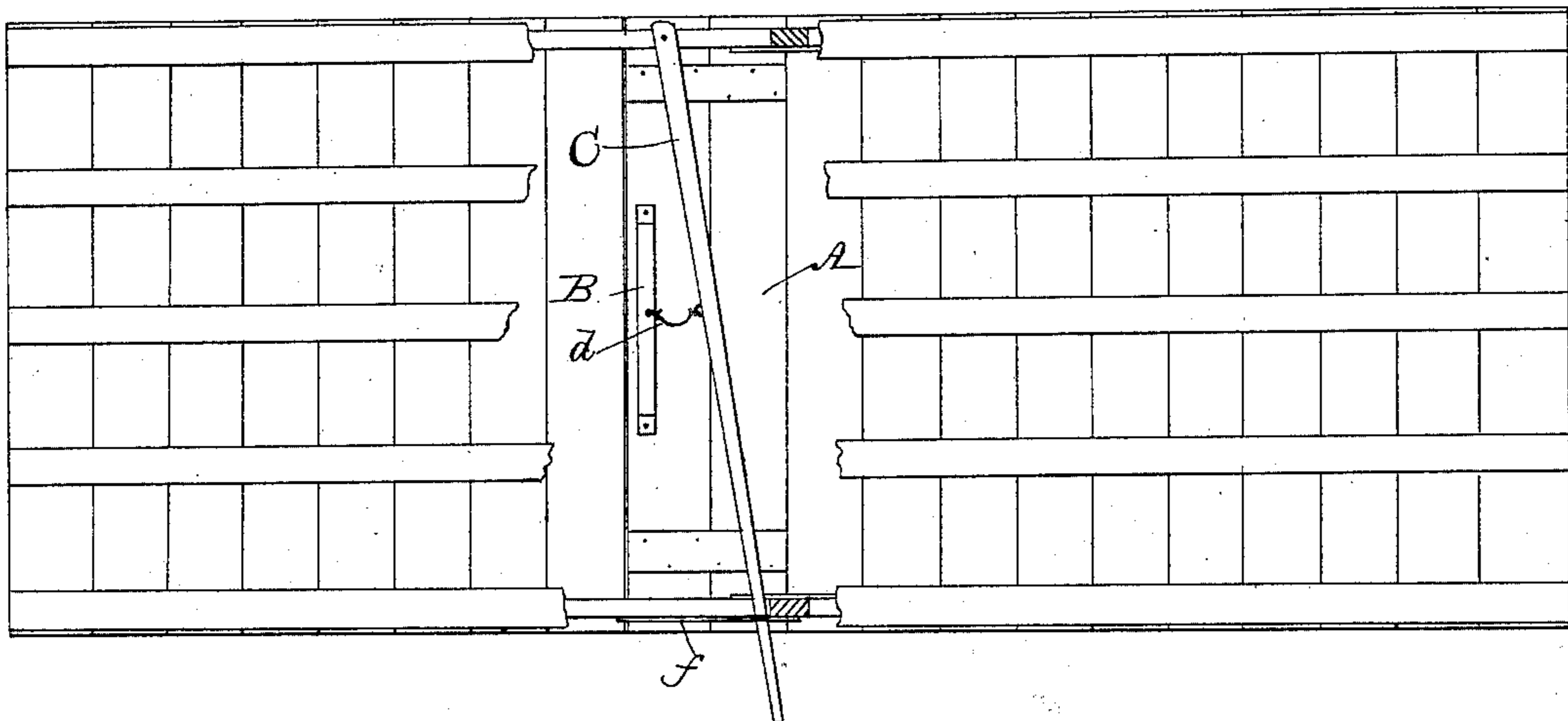
*Fig. 1*



*Fig. 2*



*Fig. 3*



Witnesses:

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Inventor:

Amos L. Grinnell,

By Thomas G. Orwig, Atty.

(No Model.)

2 Sheets—Sheet 2.

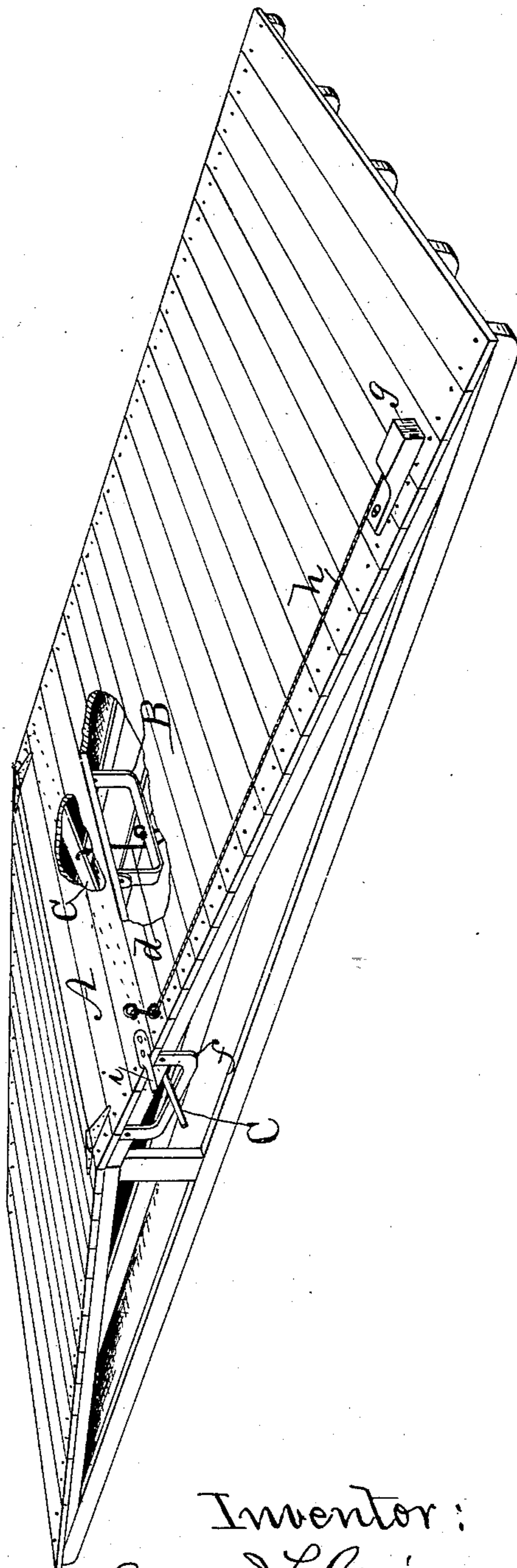
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Fig. 4



Witnesses:

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# UNITED STATES PATENT OFFICE.

AMOS L. GRINNELL, OF CAMPBELL, IOWA.

## DUMPING-PLATFORM.

SPECIFICATION forming part of Letters Patent No. 360,436, dated April 5, 1887.

Application filed March 29, 1886. Serial No. 197,093. (No model.)

*To all whom it may concern:*

Be it known that I, AMOS L. GRINNELL, a citizen of the United States of America, and a resident of Campbell, in the county of Polk and State of Iowa, have invented a new and useful Improvement in my Portable Platform Dump and Elevator, patented December 15, 1885, No. 332,654, of which the following is a specification.

My object is to reduce the elevation and upgrade of the inclines in the platform, to facilitate driving on and off with a wagon, and also to elevate the front end of a wagon by a backward motion of the team and wagon, to facilitate emptying the contents of the wagon.

My invention consists in the combination of a hinged platform-section, a prop device, a pivoted wheel-scotch, and operating mechanism, as hereinafter set forth, and pointed out in the claims, and in such a manner that the hinged platform and scotch will be moved jointly, and jointly backed in place, as required, to support a wagon, while its front end is elevated to dump its contents out at its rear end.

Figure 1 of the accompanying drawings is a side view, Fig. 2 a transverse section, Fig. 3 a bottom view, and Fig. 4 a perspective view, of my improved platform.

A is a section of the floor hinged to the apex of the double-inclined platform.

B is a prop device attached (preferably hinged) to the under side and lower edge of the section A in such a manner that when the section is elevated to increase the length and elevation of one of the inclined planes the prop device will engage the floor at the top edge of the opening in the other inclined plane and support the hinged section in its raised position, as shown in Fig. 1.

C is a lever pivoted to the frame of the platform under the hinged section, to extend from one side of the frame to the outside of the opposite edge of the frame and the end of the hinged section.

d is a chain or rope fixed to the prop B and the lever in such a manner that a horizontal movement of the lever will pull the prop off the edge of the open space in the floor, as required, to allow the hinged section A to descend and close the opening.

f is a bearing fixed to the frame to support the free end of the lever C.

g is a wooden block or wheel-scotch pivoted on top of the floor, and near one edge of the platform, to arrest the downward and rearward motion of the hind wheels of a wagon when the front wheels are rising on the hinged and elevated section of the platform.

h is a rope or chain fixed to the free end of the scotch-block g and the end and free edge of the hinged section A in such a manner that when the hinged section is elevated it will pull the pivoted block around a quarter-revolution and across the track of the wagon-wheels and into position, as required, to scotch the rear wheel.

In the practical use of my improved platform, I close the hinged section down and allow the pivoted wheel-scotch to swing back into its normal position, or turn its free end downward, and then drive the team over the platform to bring the front wheels over the apex and the wagon into a level and stationary position. I next elevate the hinged section by means of a handle, i, attached to its end, and allow the prop B to support it, and the rope h to draw the scotch g across the track of the wheels, and then back the team until the rear wheel is stopped by the scotch and the front wheels placed upon the hinged and elevated section, as shown in Fig. 1, and as required to dump the wagon. After the wagon is thus unloaded, I advance it into a level and stationary position again, and then close the hinged cover down, and drive over it and off the platform.

I claim as my invention—

1. A double-inclined platform having a hinged section at its apex, a prop device carried by the hinged section, a pivoted lever connected with the prop device by means of a rope, and a pivoted block or wheel-scotch connected with the hinged section by means of a rope, constructed, arranged, and combined to operate in the manner set forth, for the purposes stated.

2. The combination of the double-inclined platform, the hinged section A, a prop device, B, and the lever C, substantially as shown and described, for the purposes specified.

3. The pivoted block *g* and rope *d*, in combination with the hinged section A at the apex of the double-inclined platform, for the purpose stated.

5 4. A double-inclined platform having a hinged section, A, a prop device, B, flexibly connected with a pivoted lever, C, a lever-bearer, *f*, a pivoted scotch, *g*, flexibly con-

nected with the hinged section, arranged and combined substantially as shown and described, for the purposes stated.

AMOS L. GRINNELL.

Witnesses:

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THOMAS G. ORWIG.