J. C. CLARK.

LOADING APPARATUS.

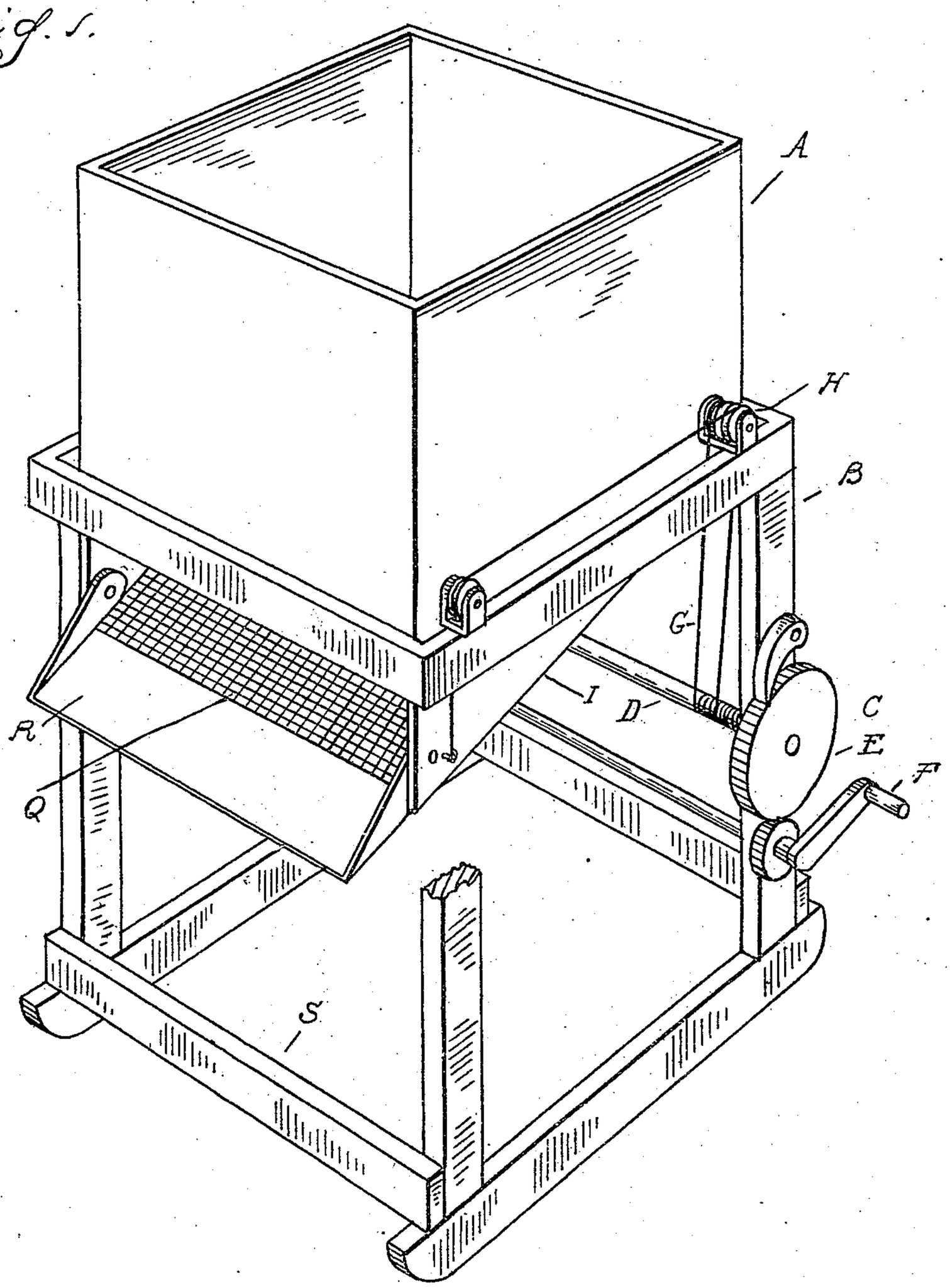
APPLICATION FILED JULY 3, 1909.

951,268.

Patented Mar. 8, 1910.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses.
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C. F. Bishop

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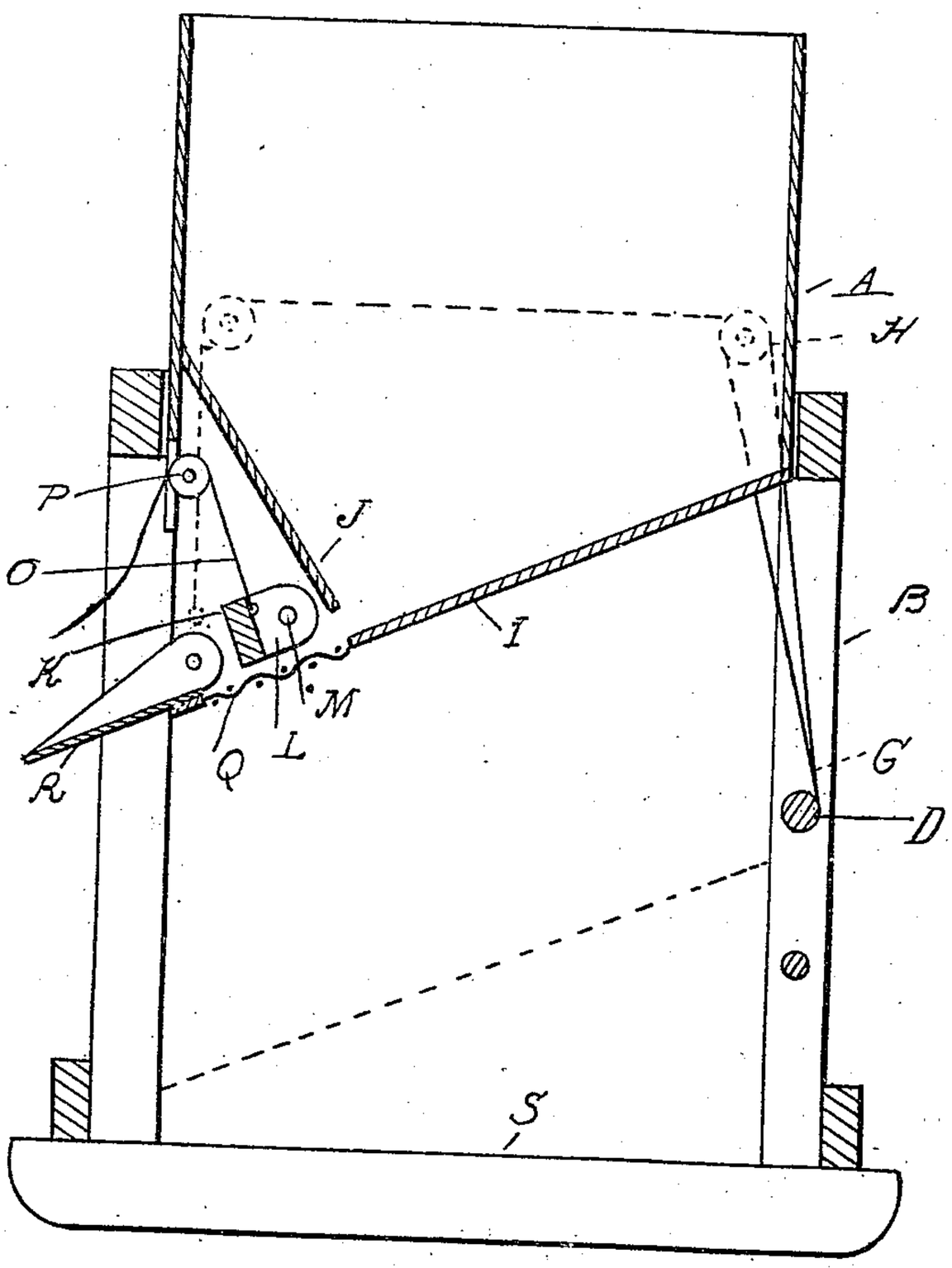
2 SHEETS—SHEET 2.

Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES C. CLARK, OF SARNIA, ONTARIO, CANADA.

LOADING APPARATUS.

951,268. Specification of Letters Patent. Patented Mar. 8, 1910.

Application filed July 3, 1909. Serial No. 505,874.

To all whom it may concern:

Be it known that I, JAMES C. CLARK, a subject of the King of Great Britain and Ireland, residing at Sarnia, in the county of Lambton, Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Loading Apparatus, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to loading apparatus more particularly designed for use in small coal yards, gravel pits, etc., and it is the object of the invention to save time and to lessen the labor required in loading wagons.

To this end, the invention consists in the construction as hereinafter set forth.

In the drawings—Figure 1 is a perspective view of the apparatus, and Fig. 2 is a vertical longitudinal section therethrough.

A is a receptacle of any desired capacity, but preferably equal to a full wagon load. This receptacle is mounted upon a supporting frame B so as to be vertically adjustable thereon.

C is a hoisting apparatus preferably consisting of a winding shaft D and operated through the gearing E from a crank F. The hoisting cables G extend from the shaft D over sheaves H at the upper end of the frame, and are suitably attached to the receptacle A. The receptacle A is formed with an inclined bottom I of sufficient angle to discharge the material. There is also preferably an inclined deflector plate J extending from the front side of the receptacle into proximity with the bottom, but leaving sufficient space for the discharge of a thin layer of the material.

K is a gate arranged in the space forward of the deflector J and suitably secured as by the arms L pivoted at M to the sides of the receptacle.

O is a pull cord for raising the gate K which passes over a sheave P and extends outside to a point for convenient operation.

Q is a screen which is arranged in that portion of the inclined bottom forward of the deflector wall J, and R is a pivoted chute which may be turned up to form a closure for the discharge orifice in the front of the receptacle.

The device as above described forms a light portable structure which, when empty, may be readily moved about from one position to another, being preferably provided with shoes S for sliding over the ground. When the receptacle A is lowered it can be readily filled by the workmen shoveling directly from the ground and lifting over the top of the frame. On the other hand, when the receptacle is raised, it is at a sufficient elevation to discharge its load into the wagon. During this operation the material is discharged in a thin sheet through the restricted orifice below the deflector J, and in this position passes over the screen Q, which removes all dust and fine material. The rate of discharge may, if desired, be regulated by the elevation of the gate K, or, at any time, the discharge may be cut off by dropping the gate.

It will be understood that, by the use of the device above described, a material increase in the amount of work performed by each team is effected as no time is lost in waiting for loading. On the other hand, the portable nature of the apparatus permits of shifting it to any point of the yard, or where the material is located.

What I claim as my invention is:

1. The combination with a portable frame, of a receptacle vertically adjustably mounted upon said frame, and having an inclined bottom, a deflector in said receptacle spaced from said inclined bottom to form a restricted discharge, a screen over which the material is discharged, and a gate for controlling the discharge.

2. The combination with a portable frame, of a receptacle vertically adjustably secured to said frame and having an inclined bottom, a deflector within said receptacle spaced from said inclined bottom to form a thin discharge, a screen over which the material is discharged, a gate for controlling the discharge, and a hinged door at the front of the receptacle forming an extension discharge chute.

3. The combination with a portable rectangular frame, of a receptacle vertically

adjustable within said frame, sheaves secured to the upper portion of said frame, hoisting cables passing over said sheaves and attached to said receptacle, and a winding drum to which said cables are attached for raising and lowering the receptacle.

4. The combination with a portable frame, of a receptacle vertically adjustably mounted upon said frame, a hoisting apparatus carried by the frame for elevating said receptacle, and a gate for controlling the discharge from said receptacle.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES C. CLARK.

Witnesses:
NELLIE KINSELLA,
JAMES P. BARRY.