

No. 828,025.

PATENTED AUG. 7, 1906.

P. ENTRINGER.  
TRIP BUCKET.

APPLICATION FILED FEB. 13, 1906.

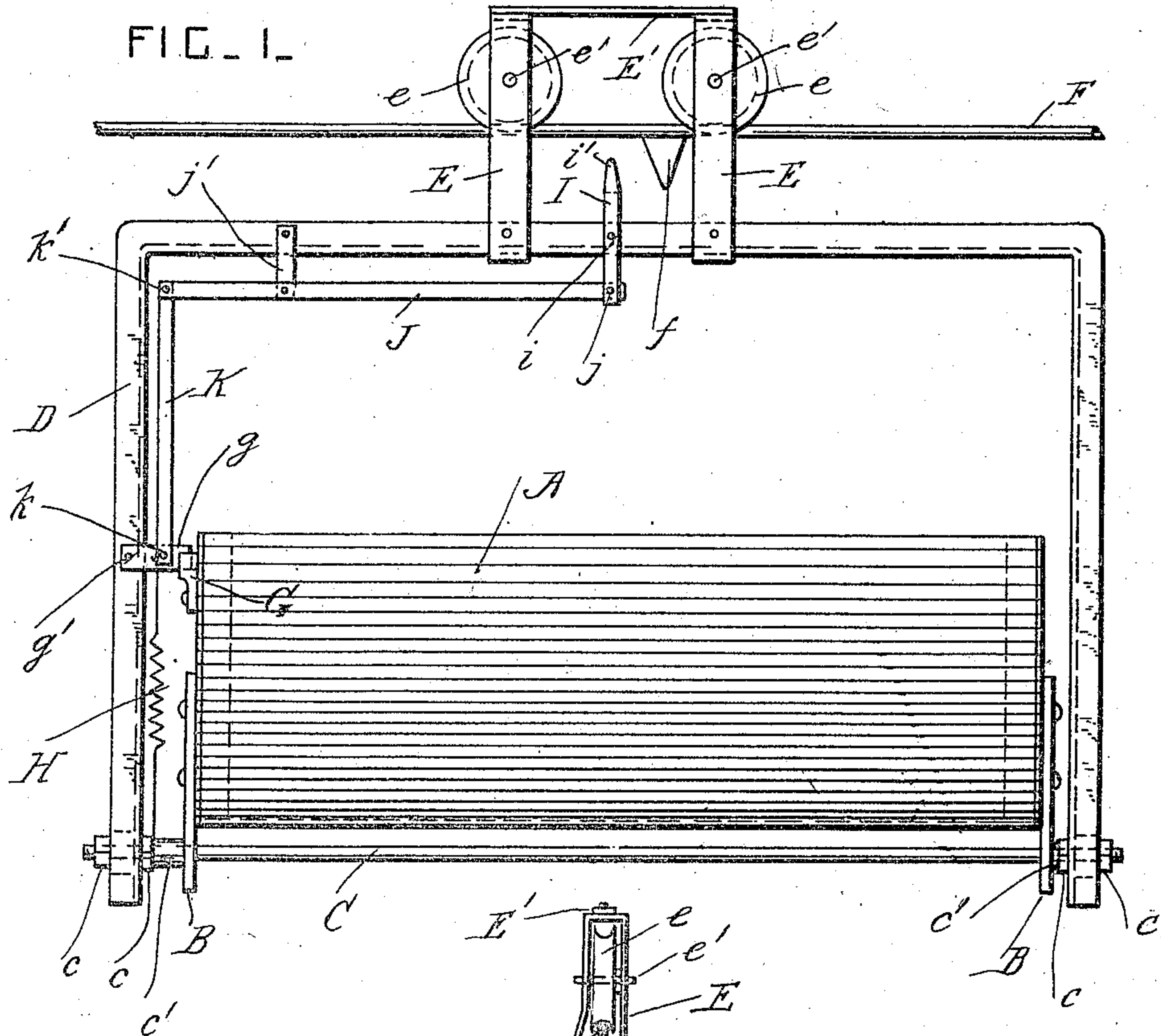
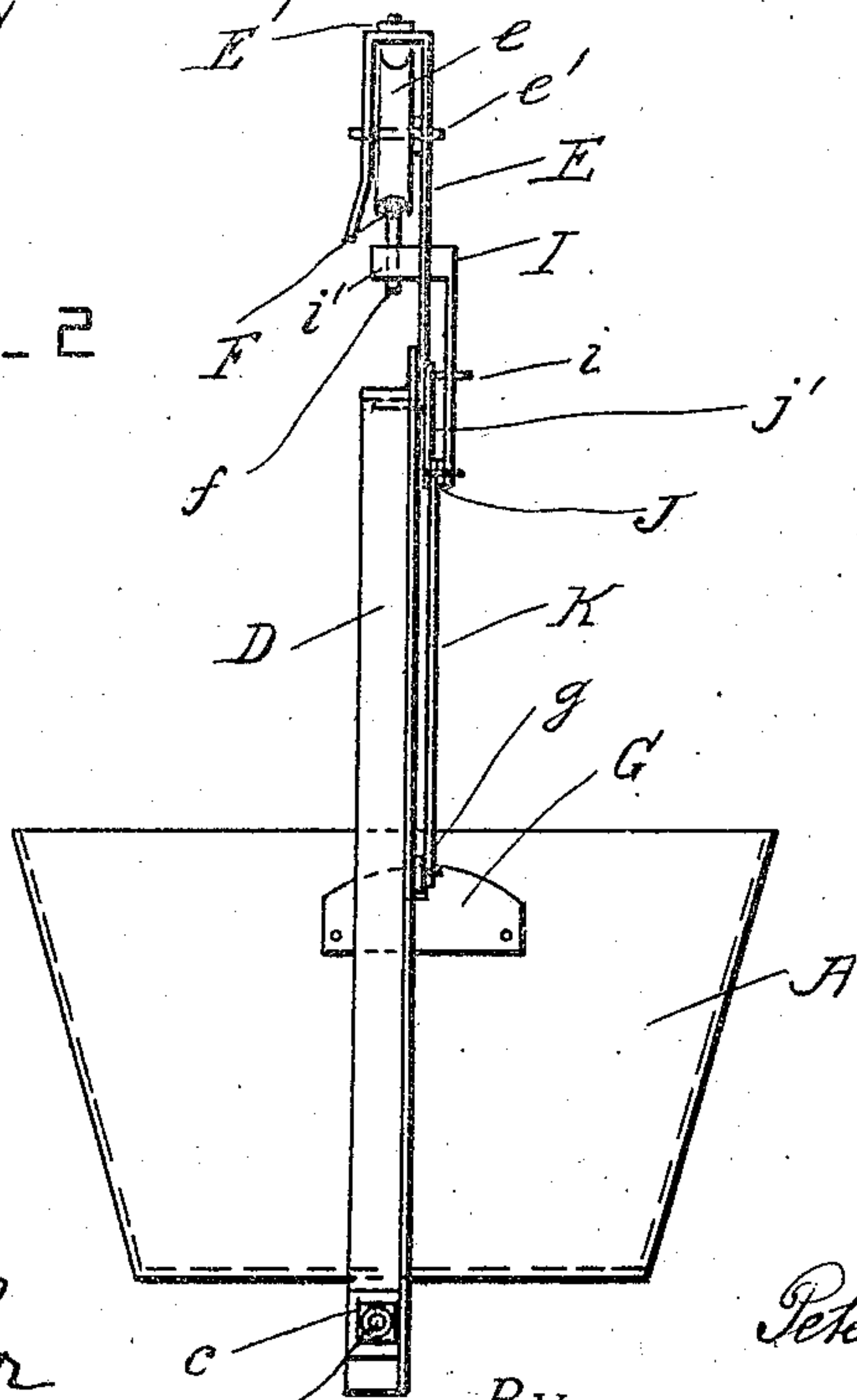


FIG. 2



WITNESSES:

Jacob Schaefer  
J. Sprigg Pool

INVENTOR

Peter Entringer.

Herbert W. Jenner.

Attorney



# UNITED STATES PATENT OFFICE.

PETER ENTRINGER, OF ST. CLOUD, WISCONSIN.

## TRIP-BUCKET.

No. 828,025.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed February 13, 1906. Serial No. 300,850.

*To all whom it may concern:*

Be it known that I, PETER ENTRINGER, a citizen of the United States, residing at St. Cloud, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Trip-Buckets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to automatic trip-buckets which run upon wire cables or other similar supports; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of the bucket. Fig. 2 is an end view of the bucket.

A is the bucket or receptacle in which the manure or other substance is placed. This bucket is preferably formed of thin sheet-steel and is of any approved shape and size.

B represents plates which are secured to the ends of the bucket and which project below its bottom at about the middle of its end portions.

C is a pivot-rod upon which the said plates B are mounted. The end portions of this pivot-rod are secured to the lower part of a frame D by suitable nuts *c*, and *c'* represents distance-pieces on the end portions of the said pivot-rod which hold the bucket in position and prevent it from sliding longitudinally on the pivot-rod. The frame D is preferably formed of angle-iron, and it extends across the top of the bucket.

E represents two arms which are secured to the middle part of the top of the frame, and *e* represents sheaves journaled on pins *e'*, which are carried by the said arms. *E'* is a bar which couples together the upper parts of the said arms. F is the wire cable or other similar support upon which the said sheaves run. A projection *f* is secured to the lower side of the cable at a point where the bucket is to be tilted and its contents discharged.

A notched locking-plate G is secured to one end of the bucket near its top edge, and *g* is a latch which is pivoted to the frame by a pin *g'* and which normally engages with the notch of the said locking-plate and prevents the bucket from tilting.

H is a spring which holds the latch in engagement with the notch and prevents it

from being accidentally jolted out of engagement with it.

I is a trip which is pivoted by a pin *i* to the middle part of the frame between the two arms E. The upper end of this trip is provided with a lug *i'*, which projects into the path of the projection *f*.

J is a rod which is pivoted to the lower end of the trip by a pin *j*, and *j'* is a pivoted link which supports the said rod from the frame and keeps it in a substantially horizontal position. K is a rod which is pivoted to the latch by a pin *k* and to the said rod J by a pin *k'*.

The loaded bucket runs upon the wire cable, and when the trip strikes the projection *f* the latch is raised out of engagement with the locking-plate and the bucket is inverted and discharged automatically. As the projection is secured to the cable, its engagement with the trip is assured when the said trip is pivoted to the frame between the two arms which support the running sheaves.

What I claim is—

1. The combination, with a trip-bucket provided with plates at its end portions which project below its bottom, of a supporting-frame which straddles the said bucket, a pivot-rod having its end portions secured to the said frame and extending longitudinally under the bottom of the said bucket and having the said plates pivoted on it, and catch mechanism connecting the said bucket with the said frame.

2. The combination, with a frame, and a bucket pivoted therein and provided with a locking-plate; of a latch pivoted to one side of the frame and normally engaging with the said locking-plate; a trip having its middle part pivoted to the upper part of the said frame, a supporting-link having its upper end pivoted to the upper part of the said frame, a rod pivoted to the lower ends of the said link and trip, and a rod having its lower end pivoted to the said latch and having its upper end pivoted to the end of the aforesaid rod which projects on the other side of the said link from the said trip.

In testimony whereof I have affixed my signature in the presence of two witnesses.

PETER ENTRINGER.

Witnesses:

W. W. HUGHES,  
P. PAULY.