

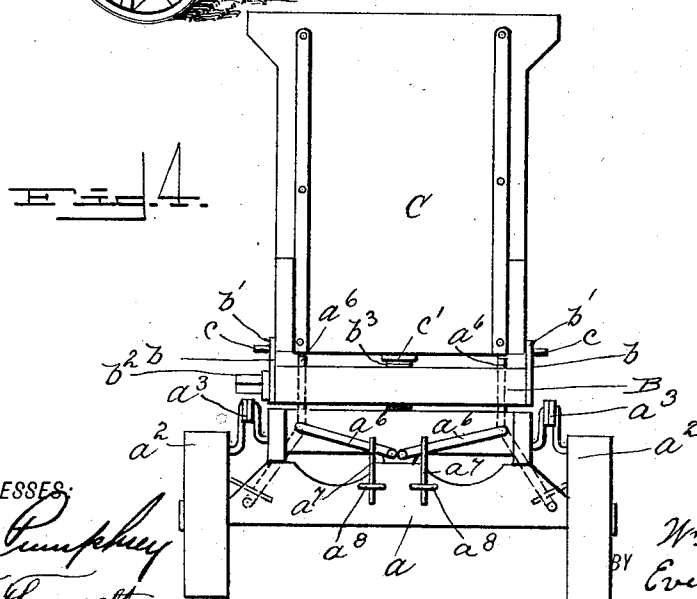
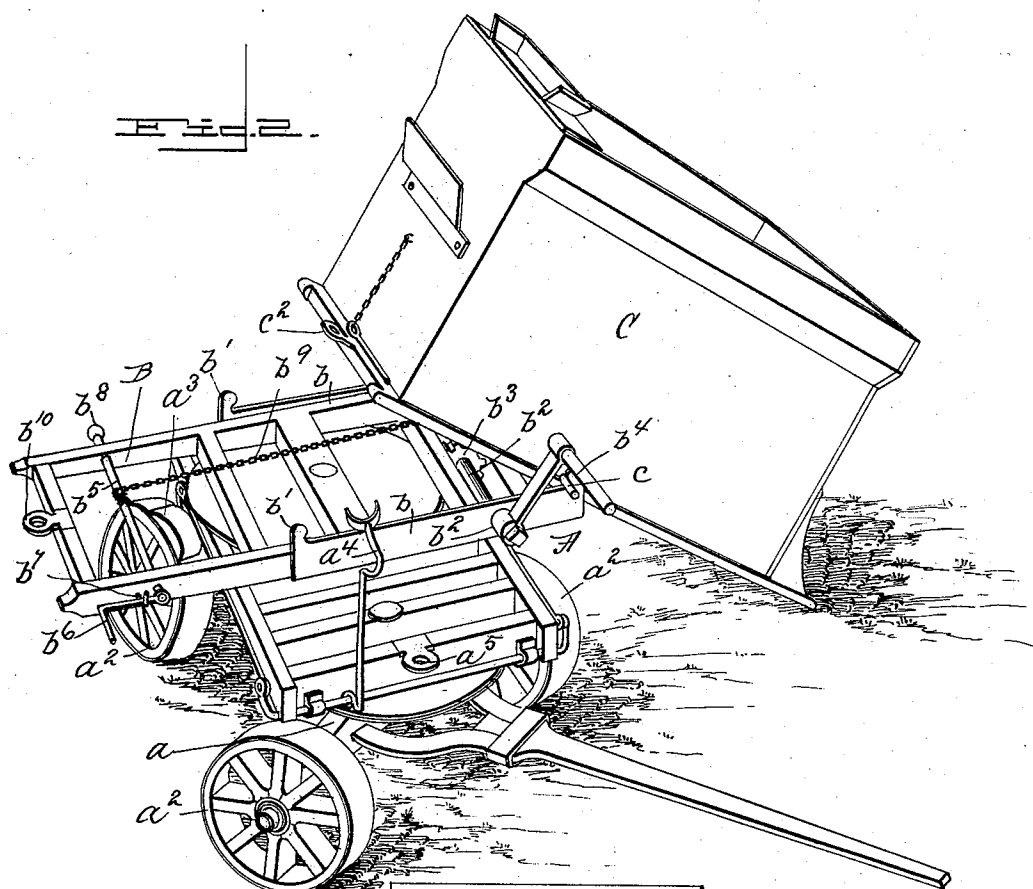
(No Model.)

2 Sheets—Sheet 2.

W. U. BOSCH.
DUMPING WAGON.

No. 509,350.

Patented Nov, 21, 1893.



WITNESSES:

M. H. Humphrey
B. F. Thornett

INVENTOR

Wm U. Bosch
BY *Evert & Appleman*

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM U. BOSCH, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO
BERNARD W. SCHUELKENS, JR., OF SAME PLACE.

DUMPING-WAGON.

SPECIFICATION forming part of Letters Patent No. 509,350, dated November 21, 1893.

Application filed April 29, 1893. Serial No. 472,401. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM U. BOSCH, a citizen of the United States of America, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Dumping-Wagons, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain new and useful improvements in the construction of "dumping cars or wagons."

The object of the invention is to provide a novel arrangement by which the contents of a vehicle may be dumped from the rear or from either side of the same, thereby overcoming the necessity of placing the vehicle in a particular position and at the same time saving in time and labor usually required for this purpose.

A further object is to employ simple and inexpensive mechanism by which the body proper may be readily tilted or dumped also means for readjusting the same.

25 With these objects in view, the invention consists essentially in a bed frame mounted on wheels and provided with suitable brakes; a turn-table pivotally secured on the bed frame to swing about a vertical axis and having tracks or ways for the reception of studs or projections, of the body proper which latter is slidably arranged on the turn-table; furthermore, the invention comprises various novel details whereby the several objects are attained.

35 In describing the invention in detail, reference is had to the accompanying drawings forming part of this specification wherein like letters indicate corresponding parts in the several views, in which—

40 Figure 1. is a view in perspective of one form of vehicle constructed and arranged to embody my improvements. Fig. 2. is a similar view, showing the same in one of its three positions for dumping. Fig. 3. is a view in central longitudinal section of the same. Fig. 4. is a view in elevation looking from the rear.

In the drawings, A, denotes a bed frame which is mounted in the usual manner upon the bolsters *a, a*. These bolsters are support-

ed upon wheels *a², a²*, which latter are provided with a suitable brake *a³*, controlled and operated by a foot lever *a⁴*, located adjacent the driver's seat. On this frame A, a turn-table B, is pivotally mounted and provided with tracks or ways *b, b*, having terminal stops *b', b'*. Over these tracks the studs or projections *c, c*, of the body proper run. In suitable bearings on the side bars and adjacent the rear end of this turn-table a transverse shaft *b²*, is journaled and carries centrally thereof a pinion *b³*, which works in a rack bar *c'* on the under side of the body proper. The outer end of this shaft is reduced and terminates in a square head on which is detachably secured a crank *b⁴*. At or near the forward part of the table a second shaft *b⁵*, is similarly journaled and provided at one end with a crank *b⁶*, which latter normally engages a stop *b⁷*. The opposite end projects beyond the side bar of the table and terminates in a suitable enlargement *b⁸*. This shaft has secured thereto one end of a chain *b⁹*, which connects with the body C. At the forward end and centrally of each of the members A, B, C apertured lugs *a⁵, b¹⁰, c²*, are arranged with a coupling pin *c³*, by which these parts may be securely held in proper position against independent movement or play. As a further means for locking the bed frame to the turn-table, angular levers *a⁶, a⁶*, are journaled in the rear cross beam of the frame and provided with engaging pawls *a⁷, a⁷*, which are adapted to be inserted in sockets or staples *a⁸, a⁸*, when the levers are turned up in locking position.

The operation is as follows: When it is desired to dump the wagon, the pin *c³*, is removed or disengaged and the levers *a⁶, a⁶*, turned down. If the body C, is to be tilted inwardly, the crank *b⁴*, is fitted on the shaft *b²*, and the crank *b⁶*, of shaft *b⁵*, disengaged from its stop to allow for the unwinding of the connecting chain *b⁹*. Then as the operator rotates the crank *b⁴*, motion will be imparted to the body through the pinion and rack bar, and as the studs or projections *c, c*, bring up against the terminal shoulders *b', b'*, thereof, the body will swing downwardly and deposit its contents. When dumping from either side, 100

the body and turn-table may be swung around on the pivoted bolt and the crank manipulated as above described. To replace the body the operator rotates the shaft by winding on the crank b^6 , until the body is sufficiently elevated or drawn up to fall into proper position on the turn-table, by its own weight.

It will be particularly noted, that I do not confine myself to the exact construction herein shown and described as various detail changes may be made within the meaning of the invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a dumping vehicle, a bed frame mounted on wheels, a turn-table pivoted on the bed frame and a body proper slidingly secured on the turn-table, as specified.
2. In a dumping vehicle, a bed frame mounted on wheels, a turn-table supported on the bed frame, and having an independent movement about a vertical axis, a body proper slidingly secured on the turn-table and means

for adjusting and tilting said body, as specified.

3. In a dumping vehicle, a bed frame mounted on wheels, a turn-table, arranged on the bed frame to swing about a vertical axis and provided with guides or ways, means for locking the said frame and table together, a body proper slidingly secured on said ways or guides, and suitable gearing for tilting and readjusting the body, as specified.

4. In a dumping vehicle, a body provided with lateral projections and a rack bar, a turn-table, having suitable guides adapted for the reception of the lateral projections of the body and a drive shaft mounted on said table and carrying a pinion which normally engages the rack bar, as specified.

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

WILLIAM U. BOSCH.

Witnesses:

BERNHARD SCHULKENS,
HENRY BERGER.