

E. W. BRACKENBURY.
DISTRIBUTING SPOUT FOR CONCRETE MIXERS.
APPLICATION FILED MAY 23, 1910.

Patented Mar. 18, 1913.

1,056,732.

3 SHEETS--SHEET 1.

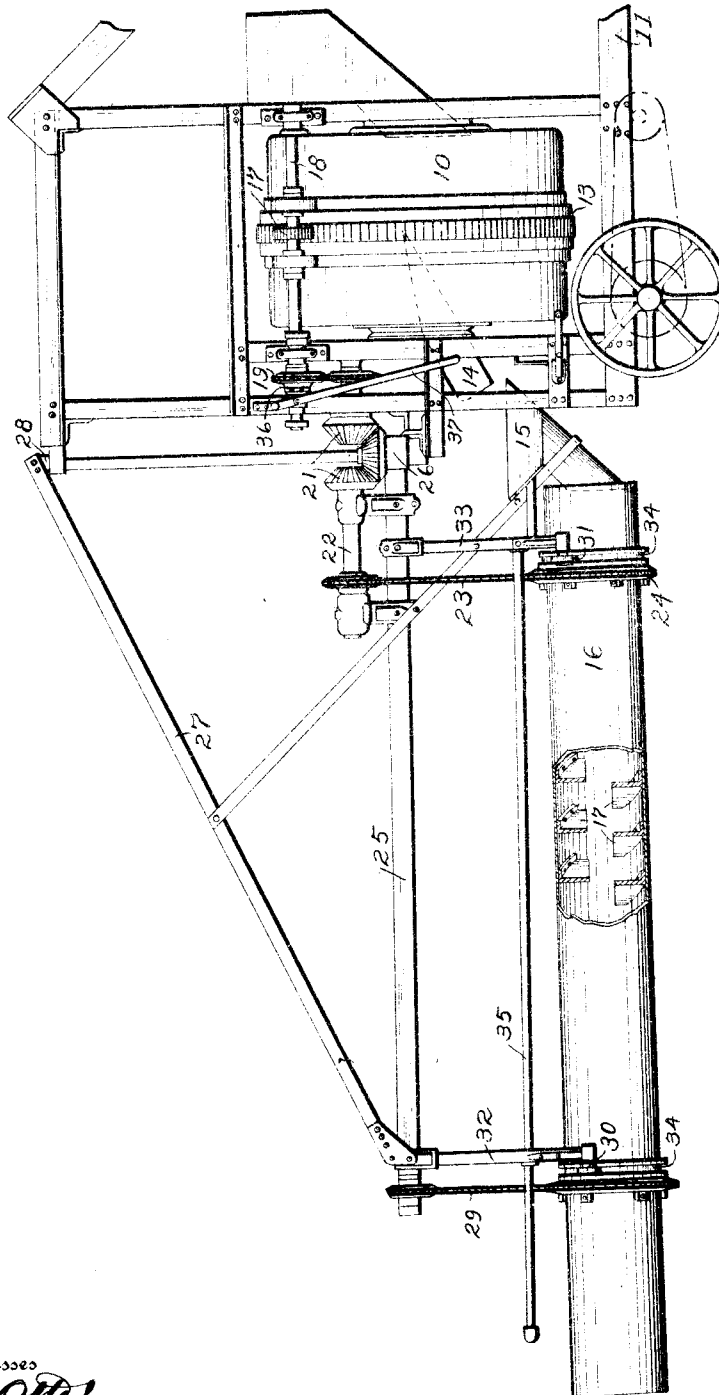


Fig. 1.

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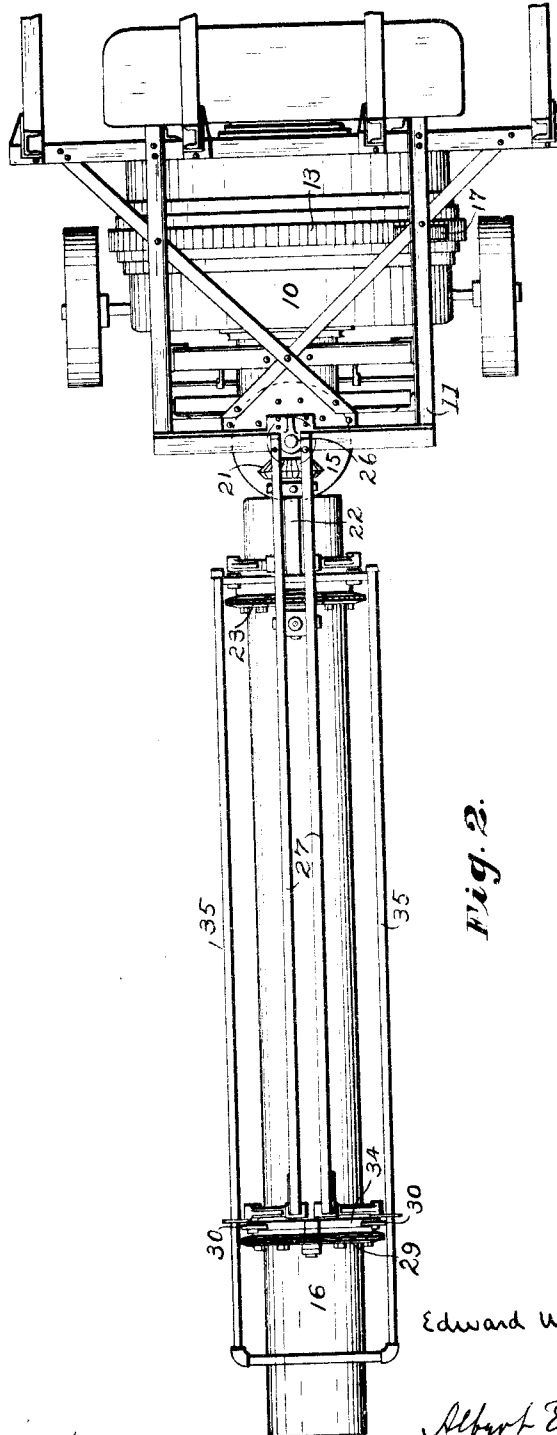


Fig. 2.

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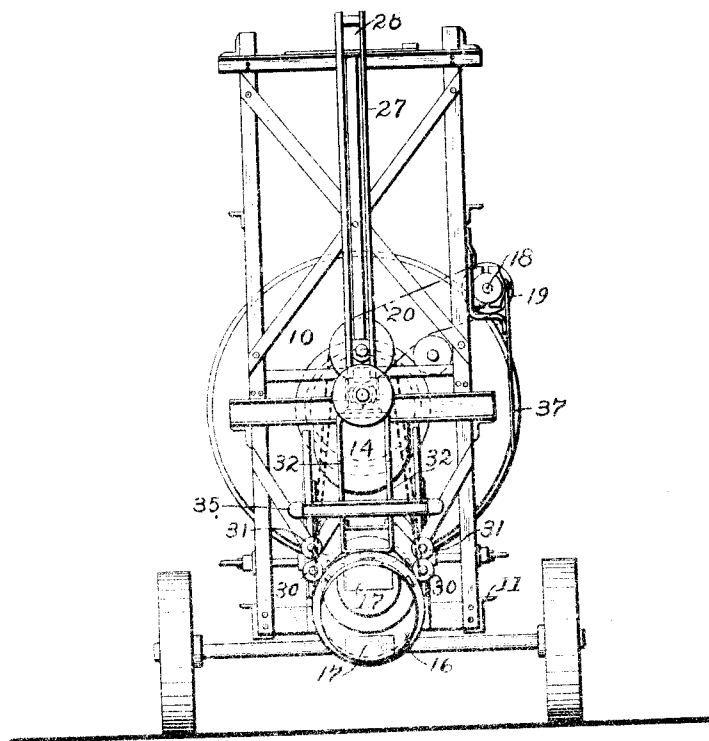


Fig. 3.

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UNITED STATES PATENT OFFICE.

EDWARD W. BRACKENBURY, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO THE T. L. SMITH CO., OF MILWAUKEE, WISCONSIN, A CORPORATION OF WISCONSIN.

DISTRIBUTING-SPOUT FOR CONCRETE-MIXERS.

1,056,732.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed May 23, 1910. Serial No. 562,815.

To all whom it may concern:

Be it known that I, EDWARD W. BRACKENBURY, a subject of the King of England, residing at and whose post-office address is No. 299 Fourteenth street, Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Distributing-Spout for Concrete-Mixers Intended for Use in Street-Paving Work, of which the following is a specification.

My invention relates to concrete mixing machines for street paving, and the object of my improvement is to provide efficient means for distributing the concrete, as it is received from the mixing machine, over the width of the street; thus dispensing with all wheeling and shoveling of the concrete. This purpose is accomplished by means of the device shown in the accompanying drawings in which—

Figure 1 is a side view of the device. Fig. 2 is a plan view of the same, and Fig. 3 is an end elevation of the same.

In these drawings the mixing machine is not completely illustrated, as it forms no part of my present invention, except that the two machines necessarily cooperate.

The mixer shown is the same machine shown in my application #549,615, which relates to the same general subject matter, to-wit: a machine for street paving.

10 is the mixer drum, 11 the truck frame and 13 is the ring gear, by means of which the drum is driven.

14 is the discharge spout through which the concrete is delivered from the mixer drum to the distributing spout hopper 15, whence it finds its way to the distributing spout 16. This spout 16 has internal blades 17, all set on an angle to the spout and inclined in the proper direction, according to the direction in which the spout is rotated, to move the concrete away from the mixer and discharge it from the free end of the spout 16.

The spout is rotated from the mixer drum ring gear 13 through the pinion 17, shaft 18, sprocket wheel 19, chain 20, miter gears 21, shaft 22 and chain 23 engaging sprocket wheel 24 on the spout 16. The spout is supported from the boom 25, which is pivoted at 26 to swing horizontally. The free end of the boom is supported by the double tie

rod 27, which also swings on a vertical pivot at 28. The outer end of the spout 16 is supported by the chain 29 in the same manner that the inner end is supported by chain 23, except that the latter not only supports but drives the spout, while the former, chain 29, runs idle. The spout 16 is steadied laterally and kept in place on the chains by two sets of rollers 30 and 31 adjacent to the outer and inner chains respectively. The rollers are carried by the frames 32 and 33, which depend from the boom 25. The rollers engage in grooves 34 in the hubs of the sprocket wheels. A hand rail 35 is provided for swinging the spout and boom so that the concrete may be deposited anywhere within the sweep of the spout which is about 150 degrees. This hand rail is attached to the two dependent frames 32 and 33.

At 36, Fig. 1, a sliding jaw clutch is placed to be operated by lever 37. This clutch connects the shaft 18 and sprocket 19 when operation of the spout 16 is desired. When the clutch 36 is disengaged, the shaft 18 turns loosely in the sprocket 19. The spout hopper 15 is supported from the boom 25 and dependent frame 33 with its center in line with the vertical pivots 26 and 28, so that said hopper 15 always stands in operative relation to the discharge spout 14 regardless of how the boom may be swung. The spout is inclined slightly with its free end lower than its receiving end to facilitate discharge.

By removing the two castings that form the boxes for the vertical pivots 26 and 28, the entire boom, distributing spout 16, and all attached parts are removed from the machine, leaving the mixer to be operated in the ordinary way.

What I claim as my invention is:

1. A distributing means for concrete mixers consisting of a rotatable substantially horizontal pipe conveyer, a frame pivoted at one end on a vertical shaft and adapted to swing horizontally, means rotatably supporting said conveyer from said frame, and a train of mechanism acting through the axis of said pivot shaft adapted to rotate said conveyer in any position of said pivoted frame.

2. A distributing means for concrete mixers consisting of a rotatable substantially

horizontal pipe conveyer, a frame pivoted
at one end on a vertical shaft and adapt-
ed to swing horizontally, means rotatably
supporting said conveyer from said frame,
5 a train of mechanism acting through the
axis of said pivot shaft adapted to rotate
said conveyer in any position of said pivot-
ed frame, and a feed chute or hopper for
said conveyer mounted on said frame with

its center line in the line of the axis of said 10
pivot shaft.

In testimony whereof I have hereunto set
my hand and seal this 20th day of May 1910.

EDWARD W. BRACKENBURY

In the presence of—

E. O. S. NACKLETOW,

H. H. GERLACH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
