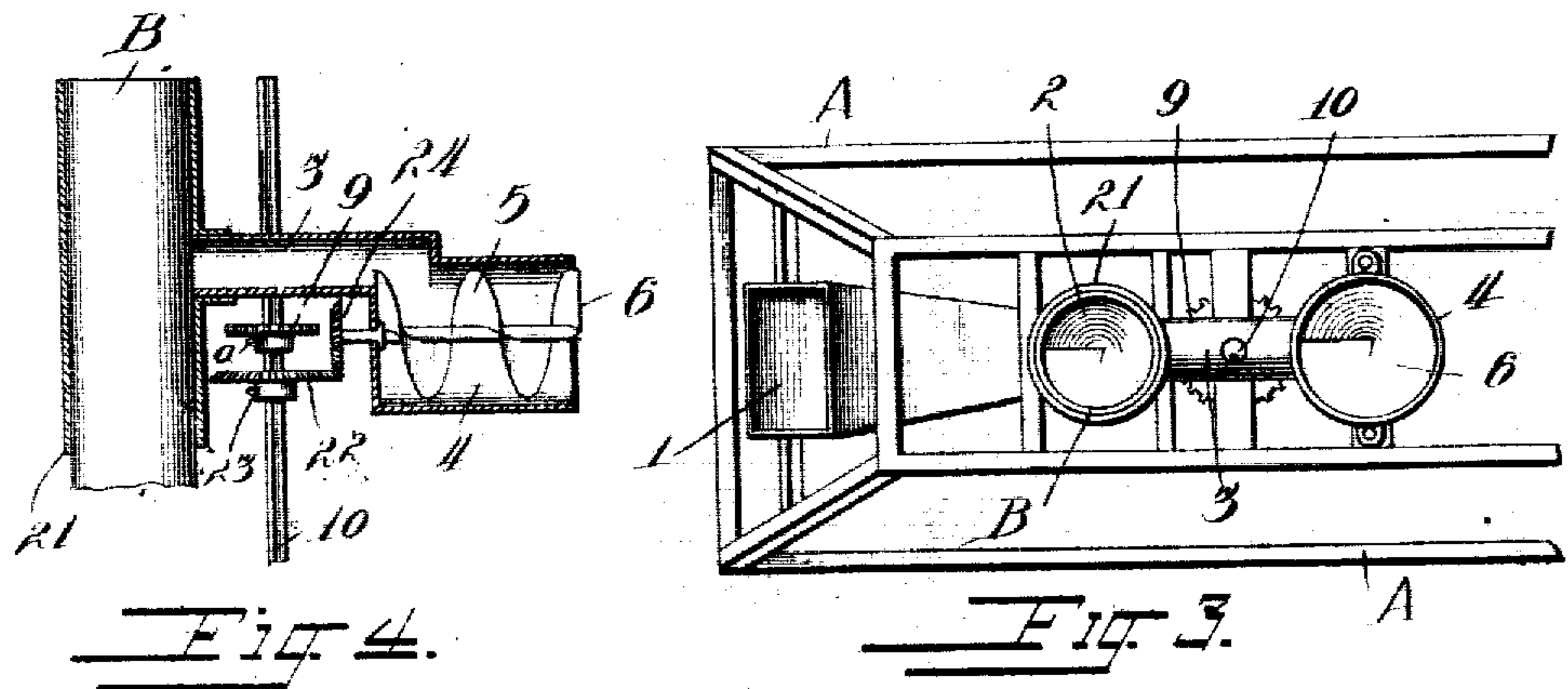
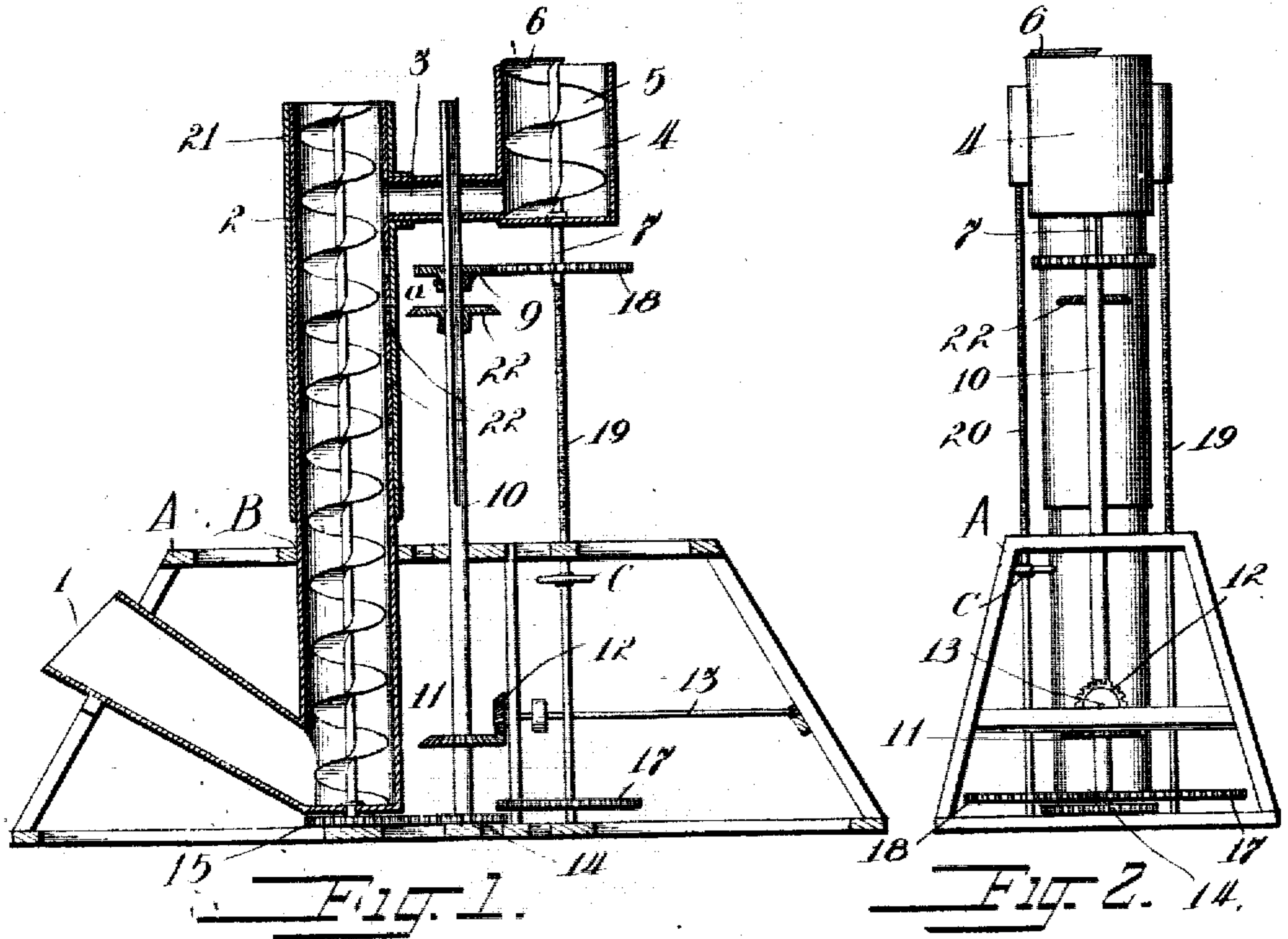


No. 820,042.

PATENTED MAY 8, 1906.

C. W. FERTICK.
MORTAR SPREADING MACHINE.
APPLICATION FILED OCT. 2, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES W. FERTICK, OF BALTIMORE, MARYLAND.

MORTAR-SPREADING MACHINE.

No. 820,042.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed October 2, 1905. Serial No. 281,014.

To all whom it may concern:

Be it known that I, CHARLES W. FERTICK, a citizen of the United States, residing at Baltimore city, in the State of Maryland, have
5 invented certain new and useful Improvements in Mortar-Spreading Machines, of which the following is a specification.

My invention relates to an improvement in plastering-machines, the object being to provide an apparatus sufficiently light to make it
10 easily movable for applying plaster either to a wall or ceiling; and it consists in certain novel features of construction and combinations of parts which will hereinafter be described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional view. Fig. 2 is an end view. Fig. 3 is a plan view with a portion broken away, and Fig. 4 is a fragmentary view of a slightly-modified form for use
20 in applying plaster to the wall.

A represents the frame of the machine, which may rest directly upon the floor or on rollers or casters, so that it may be easily
25 moved into different positions on the floor.

B is a stand-pipe which is adapted to receive the mortar from a spout 1, into which the mortar is fed. A screw conveyer 2 in the stand-pipe conveys the mortar upward to the
30 flange-pipe 3, through which it passes to the hopper 4, and in this hopper 4 a plastering-screw 5 turns. This plastering-screw is like the conveyer-screw 2 except that it projects above the hopper to form a trowel 6 for
35 spreading plaster or cement upon the ceiling. A stub-shaft 7 extends downwardly from the stem of screw 5 and is provided with a gear 8, which meshes with gear 9, which latter is keyed to slide on the vertical shaft 10,
40 it being held in adjustable position by the set-screw *a*, and this vertical shaft is provided with a beveled pinion 11, which meshes with beveled pinion 12 on the drive-shaft 13, and through the latter motion is communicated to the screw 5. Likewise shaft 10 is
45 provided with a gear-wheel 14, which meshes with gear-wheel 15 on the lower end of conveyer-screw 2. Screws 19 and 20 are stepped at their lower ends in the frame, and they are
50 threaded at their upper ends to raise and lower the hopper 4. Screws 17 and 18 on

these screws 19 and 20, respectively, intermesh with each other, and a hand-wheel C on one of these screws is turned to raise and lower the hopper. A sleeve 21 is fitted
55 around the stand-pipe B, and the stand-pipe is provided with a plurality of holes 22 22 at different elevations, any one of which is adapted to register with the branch pipe 3, the entire sleeve 21 and branch pipe moving with
60 the hopper 4.

In the construction shown in Fig. 4 the hopper 4, as well as the screw 5, extends horizontally for plastering a wall, and a beveled gear 22 being secured in position by a set-
65 screw 23, which engages a pinion 24 on the stem of the screw 5. The hopper 4 is removable from the stand-pipe B, so that either form may be used, and for that reason the shaft 10 is equipped with two gear-wheels 9
70 and 22.

Slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do
75 not wish to limit myself to the exact construction herein set forth; but,

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

1. In a plastering-machine, the combination with a hopper and means for supplying the hopper, of a conveyer screwed therein, said screw terminating at its outer end in a plastering-trowel.
85

2. In a plastering-machine, the combination with a frame and stand-pipe and feed-spout of an adjustable hopper, a conveyer-screw in the stand-pipe and hopper and means for turning said screw, the screw in the
90 hopper terminating in a plastering device.

3. The combination with a suitable frame and stand-pipe having a plurality of holes therein, of a conveyer screwed in the stand-pipe, a sleeve fitted to the stand-pipe, a hop-
95 per, a branch pipe extending from the hopper and removably connected with the sleeve, a conveyer screwed in the hopper terminating in a plastering-trowel at its outer end, and means for raising and lowering the hopper
100 and revolving the screws.

4. The combination with a suitable frame

and stand-pipe and feed-spout leading to the
lower end of the latter, of a conveyer-screw
in the stand-pipe, a hopper, a branch pipe
leading therefrom, a sleeve fitted to the con-
5 veyer and to which the branch pipe is con-
nected, means for raising and lowering the
hopper, a branch pipe, a sleeve, a driving-
shaft and vertical shaft and gearing for com-

municating motion from the driving-shaft to
the vertical shaft and conveyer-screw. 10

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

CHARLES W. FERTICK.

Witnesses:

E. WALTON BREWINGTON,
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