

No. 640,785.

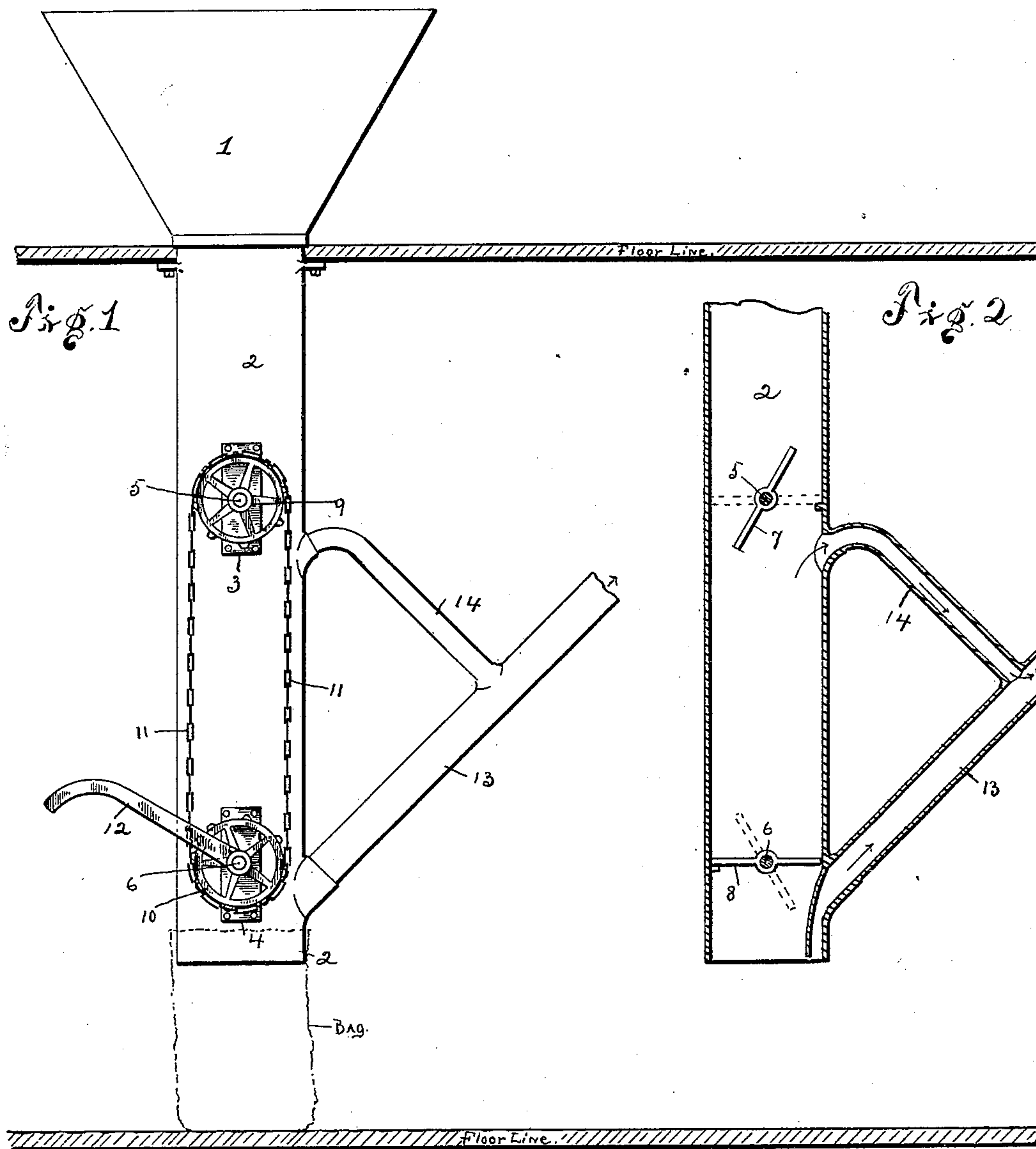
Patented Jan. 9, 1900.

S. MARSHALL.

BAG FILLER.

(Application filed Aug. 24, 1898.)

(No Model.)



WITNESSES:

E. C. Ritchie  
M. Hurten

INVENTOR

Samuel Marshall  
BY O. D. Lewis  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

SAMUEL MARSHALL, OF ALLEGHENY, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO FIRMAN K. DUFF, OF BELLEVUE, PENNSYLVANIA.

## BAG-FILLER.

SPECIFICATION forming part of Letters Patent No. 640,785, dated January 9, 1900.

Application filed August 24, 1898. Serial No. 689,380. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL MARSHALL, a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Bag-Fillers; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in an automatic bag-filler.

The object of the invention is to provide an automatic device for delivering lime, cement, grain, &c., from a hopper into sacks and at the same time provide a means of conveying the dust away, so as not to interfere with the operator.

With the above objects in view the invention consists in the novel construction, combination, and arrangement of parts, as will hereinafter be more fully described in detail, after which will follow a description of its workings.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference designate like parts throughout both views, in which—

Figure 1 is a vertical front view of my improved device. Fig. 2 is a vertical sectional view through a portion of the same.

In said views the numeral 1 designates a hopper arranged at an upper floor. 2 is a delivery-tube connected to said hopper and extends down a suitable distance, so that the lower end may readily enter the mouth of the sack or bag when the latter is placed upon the floor.

Arranged upon each side of the delivery-tube are bearing-plates 3 and 4, and loosely fitted into these plates are the shafts 5 and 6, which extend through the said tube. A pair of valves 7 and 8 are made fast to these shafts at the inside of the tube, as seen at Fig. 2. Sprocket chain-wheels 9 and 10 are secured upon the ends of the valve-shafts and coupled

together by means of a suitable chain 11. The valves are arranged so that when one is open the other is closed, and for opening and closing the valves a hand-lever 12 is arranged in connection with the lower valve-shaft. Leading from the delivery-tube, at a point below the lower valve, is the tube 13, the purpose of which is to convey the dust away from the material as it is released into the sack. A branch tube 14, leading from the delivery-tube at a point below the upper valve and communicating with the tube 13, is arranged to convey the dust from the delivery-tube between the valves.

In operation the material is dumped into the hopper, and the bag to receive the material is fitted onto the lower end of the delivery-tube. If upper valve is closed and the lower one opened, the operator moves lever to allow a charge of the material to fall down within the tube onto the lower valve. An opposite movement of the lever closes upper valve and opens the lower one, thus allowing the material to be delivered into the sack or bag, and the dust from the material rises and escapes out through the pipes 13 and 14. By this means the operator is enabled to work without interference from the dust.

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

An automatic bag-filler comprising a hopper, a delivery-tube leading from the hopper, valves arranged within said delivery-tube and connected one to the other in such manner that when one is opened the other is closed, a means for operating the valves and a pipe leading from the delivery-tube at a point below each valve for the purpose of conveying the dust from the material, substantially as set forth.

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

SAMUEL MARSHALL.

Witnesses:

JAMES J. CLOONAN,  
JOHN DOWNEY.