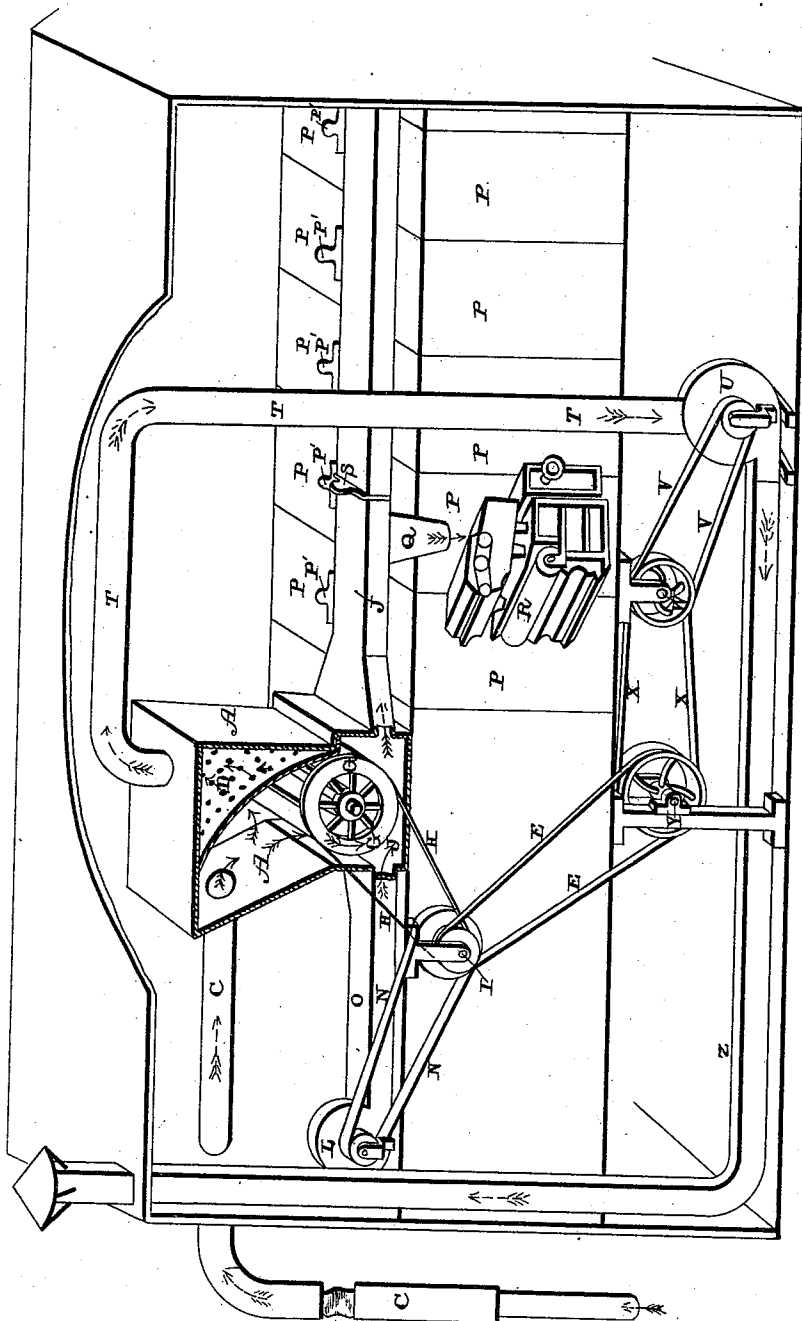


(No Model.)

J. B. ALLIN.
MACHINE FOR DELIVERING COTTON.

No. 429,493.

Patented June 3, 1890.



Witnesses:
E. P. Ellis,
A. Stevens Patterson

Inventor:
J. B. Allin,
per
J. A. Lehmann, atty.

UNITED STATES PATENT OFFICE.

JOSIAH B. ALLIN, OF MARVELL, ARKANSAS.

MACHINE FOR DELIVERING COTTON.

SPECIFICATION forming part of Letters Patent No. 429,493, dated June 3, 1890.

Application filed February 8, 1890. Serial No. 339,692. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH B. ALLIN, of Marvell, in the county of Phillips and State of Arkansas, have invented certain new and useful Improvements in Machines for Delivering Cotton; 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 pertains to make and use it, reference being had to the accompanying drawing, which forms part of this specification.

My invention relates to an improvement in machines for delivering cotton; and it consists in the combination of a vacuum-box into which the cotton is drawn by means of suction, a wheel placed in the bottom of the box and provided with pockets into which the cotton falls, and a suitable flue extending from the fan to a flue leading from the wheel to the bins or cotton-gin, as will be more fully described hereinafter.

The object of my invention is to produce a machine by which cotton and other light substances can be delivered from any desired point and delivered into the bins, or into any other desired place, without the necessity of having to handle it.

The accompanying drawing represents a perspective view of a complete machine or apparatus which embodies my invention.

A represents a vacuum-box of any desired shape, size, or construction, and which is located in any desired part of the building and connected to the conveying-pipe C, through which the cotton or other similar substance is delivered from the wagon or any other point. The lower portion of this tube C is made flexible and telescopic, so that it can be adjusted in any desired position, and thus adapted to take the cotton from any part of a wagon.

In the box A is a perforated metallic screen D, through which the dust and dirt mixed with the cotton are drawn away at the same time the cotton is drawn or sucked into the box. As the cotton enters the box it drops upon the bottom thereof and falls into the pockets of a revolving wheel G. This wheel is driven by the belt H from the shaft I, and as it revolves in the inclosing-case in which it is placed the draft of the air in the box A

through the pipe C does not affect the cotton which is held in the pockets of the wheel. As the wheel revolves, the cotton is dropped into the flue J, where it is struck by a blast of air from the fan L, located at any suitable distance from the box, and which fan is driven by a belt N from the shaft I. The air passes from this fan L through the pipe or flue O and strikes the cotton just as it falls from the pocket in the wheel and forces it along through the pipe or flue J, either into any one of the bins P or through the pipe Q to the gin R. If the cotton is to be delivered into any one of the bins P, its slide P' is raised and the cotton is blown through the side of the pipe J directly into the box. If the cotton is to be delivered to the gin, the slide S, which extends across the flue or pipe J, is inserted into position, so as to stop the onward passage of the cotton, and then the cotton is delivered directly to the gin.

In order to positively guide the cotton into any particular bin, there may be a valve in the pipe J for every bin similar to the valve S, or the pipe J may be allowed to fill up to the opening of the particular bin in which it is desired to deliver the cotton, as here shown. Then should the valve P' of any bin beyond the one just filled be opened the cotton which is in the tube up to this point will be blown into this bin.

Extended from the top of the box A is the pipe T, the lower end of which connects with the fan U, which is driven by the belt V from the shaft W, and which latter is in turn driven by the belt X from the shaft Y. Extending from the fan U is the pipe Z, through which the dust and dirt drawn from the cotton are blown into the outer air. From the shaft Y extends the belt E, which drives the shaft I. These parts can be arranged in any desired relation to each other, as their mere arrangement is immaterial. By means of this construction the cotton can be delivered from a wagon or any other source into any desired part of the building without the necessity of having to be handled in the usual manner, and thus a great saving in both time and labor is effected.

Having thus described my invention, I claim—

The combination, with a suction-box and a suction-fan connected thereto, of a wheel located in the bottom of the box and provided with pockets, a forcing-fan, and the pipes O J,
5 whereby as the cotton falls from the wheel it is driven by a blast of air to any desired point, substantially as shown and described.

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

JOSIAH B. ALLIN.

Witnesses:

LOUIS KAHN,
MARTIN COLE.