

(No Model.)

J. L. WILLIAMS & L. W. BENNETT.
DEVICE FOR HANDLING COTTON.

No. 463,708.

Patented Nov. 24, 1891.

Fig. 1.

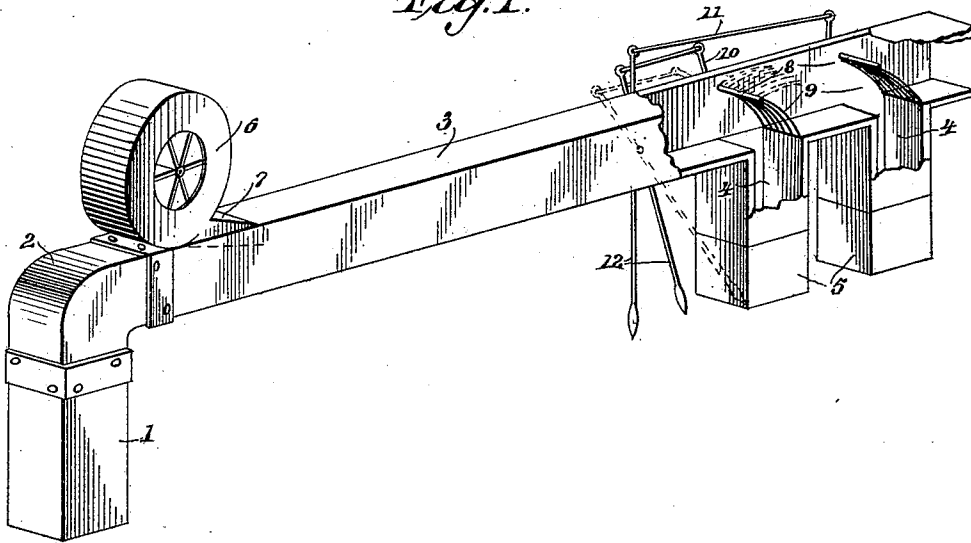
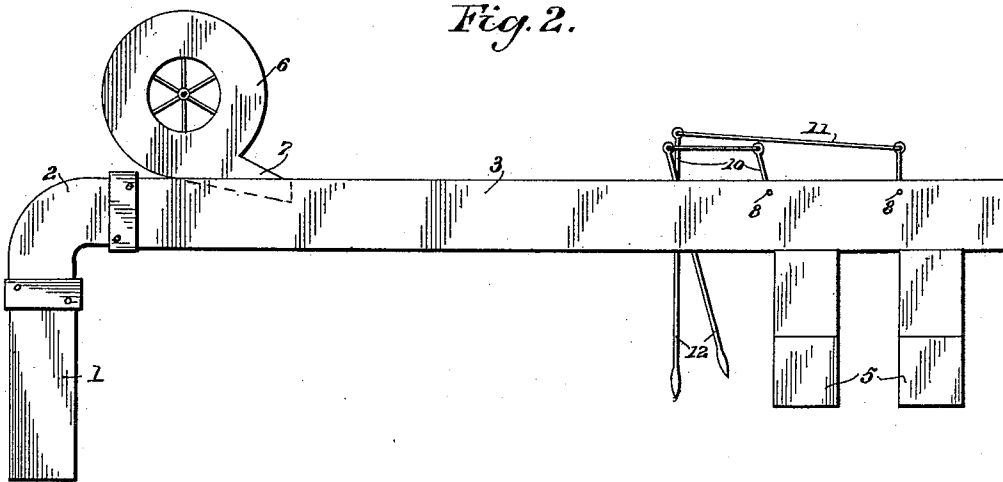


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES L. WILLIAMS AND LEVI W. BENNETT, OF PILOT POINT, TEXAS.

DEVICE FOR HANDLING COTTON.

SPECIFICATION forming part of Letters Patent No. 463,708, dated November 24, 1891.

Application filed September 16, 1890. Serial No. 365,186. (No model.)

To all whom it may concern:

Be it known that we, JAMES L. WILLIAMS and LEVI W. BENNETT, citizens of the United States, residing at Pilot Point, in the county of Denton and State of Texas, have invented a new and useful Device for Handling Cotton, of which the following is a specification.

This invention relates to devices for handling cotton; and it has for its object to provide a pneumatic apparatus for conveying seed-cotton from a wagon, store-house, bin, or other receptacle to the gin feeders or distributors, which shall be simple in construction and efficient in operation.

The invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a perspective view of a cotton-conveyer constructed in accordance with our invention, parts of the same having been broken away for the purpose of exposing the interior construction. Fig. 2 is a side elevation thereof.

Like numerals of reference indicate like parts in both figures.

1 designates a tubular spout, the lower end of which extends into the wagon-box or other receptacle or place of deposit, from which the seed-cotton is to be conveyed to the gin-feeders. Said spout is connected by an elbow 2 with the horizontal pipe 3, which is provided at suitable intervals with openings 4, connected with the gin-feeders 5. The latter in the drawings hereto annexed have been shown only diagrammatically, inasmuch as they form no part of the present invention.

6 designates a blast-fan, the spout 7 of which extends through a suitable opening in the upper side of the conveyer-pipe 3, near the front end of the latter, where it is joined by the elbow 2 with the spout 1. The spout 7 of the fan-case extends rearwardly into the pipe 3. Hence it will be seen that when a blast is directed from the fan 6 through the pipe 3 suction is created in the spout 1, whereby the seed-cotton is caused to pass upward through the said spout and through the elbow 2 into the pipe 3, through which it is forced by the blast of air from the fan.

The sides of the pipe 3 are provided above each of the openings 4, communicating with the gin-feeders, with bearings for the trans-

verse shafts 8, having downwardly-extending curved arms 9, that serve as screens to intersect the seed-cotton and to direct it through the openings 4 to the gin-feeders. The shafts 8 are provided at one end with arms or levers 10, connected by rods 11 with handles 12, by means of which they may be partly rotated in their bearings, so as to adjust the curved arms 9 in a raised position when desired.

The operation of the invention will be readily understood. The device may be used for supplying seed-cotton to any desired number of feeders or distributors. At the beginning of the operation the shaft 8 nearest the front end of the device is adjusted with its curved arms 9 in a lowered position, so as to intersect the seed-cotton and cause it to pass through the opening 4, which is the first in the series. When the first gin-feeder has received a sufficient supply, the first shaft 8 is rocked in its bearings, so as to elevate the curved arms 9, as will be seen in dotted lines in Fig. 1. The seed-cotton will then be forced by the air-blast over the first opening 4 and be intersected by the curved arms of the second rock-shaft, which are in a lowered position. In this manner the operation is proceeded with until the gin-feeders have all been supplied, after which the several rock-shafts may again be oscillated to lower the curved arms 9 for a repetition of the operation. The air escapes through the open rear end of the pipe 3.

Having thus described our invention, we claim—

The combination of the conveyer-pipe having openings connecting with the gin-feeders, the rock-shafts journaled transversely in said pipe above said openings and having downwardly-extending curved arms, the blast-fan having a spout extending into and facing rearwardly in the conveyer-pipe, and a spout connected with the front end of the conveyer-pipe by an elbow or coupling, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JAMES L. WILLIAMS.
LEVI W. BENNETT.

Witnesses:

W. E. MOFFITT,
GEO. W. HALL.