

(No Model.)

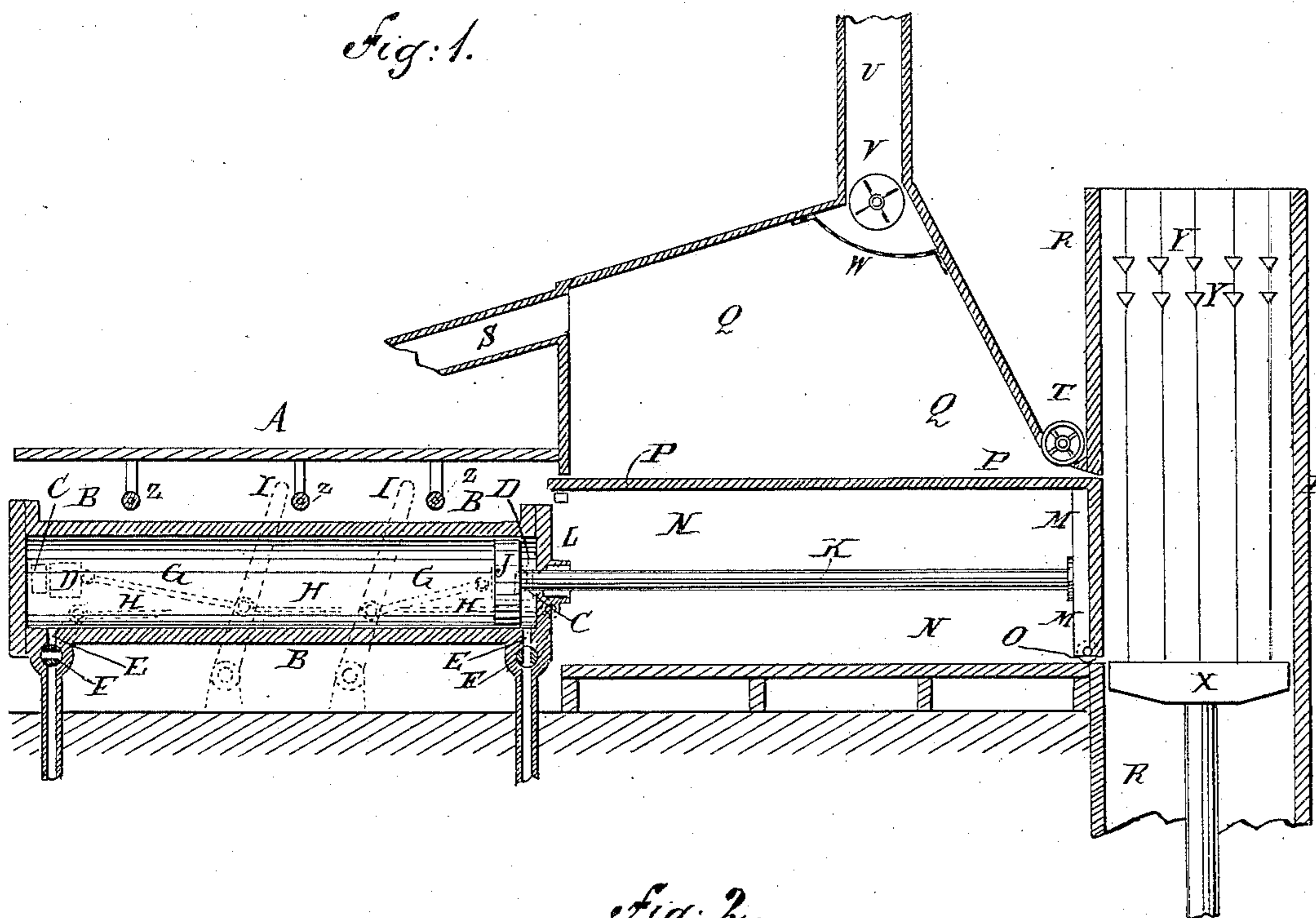
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FEEDER FOR COTTON PRESSES.

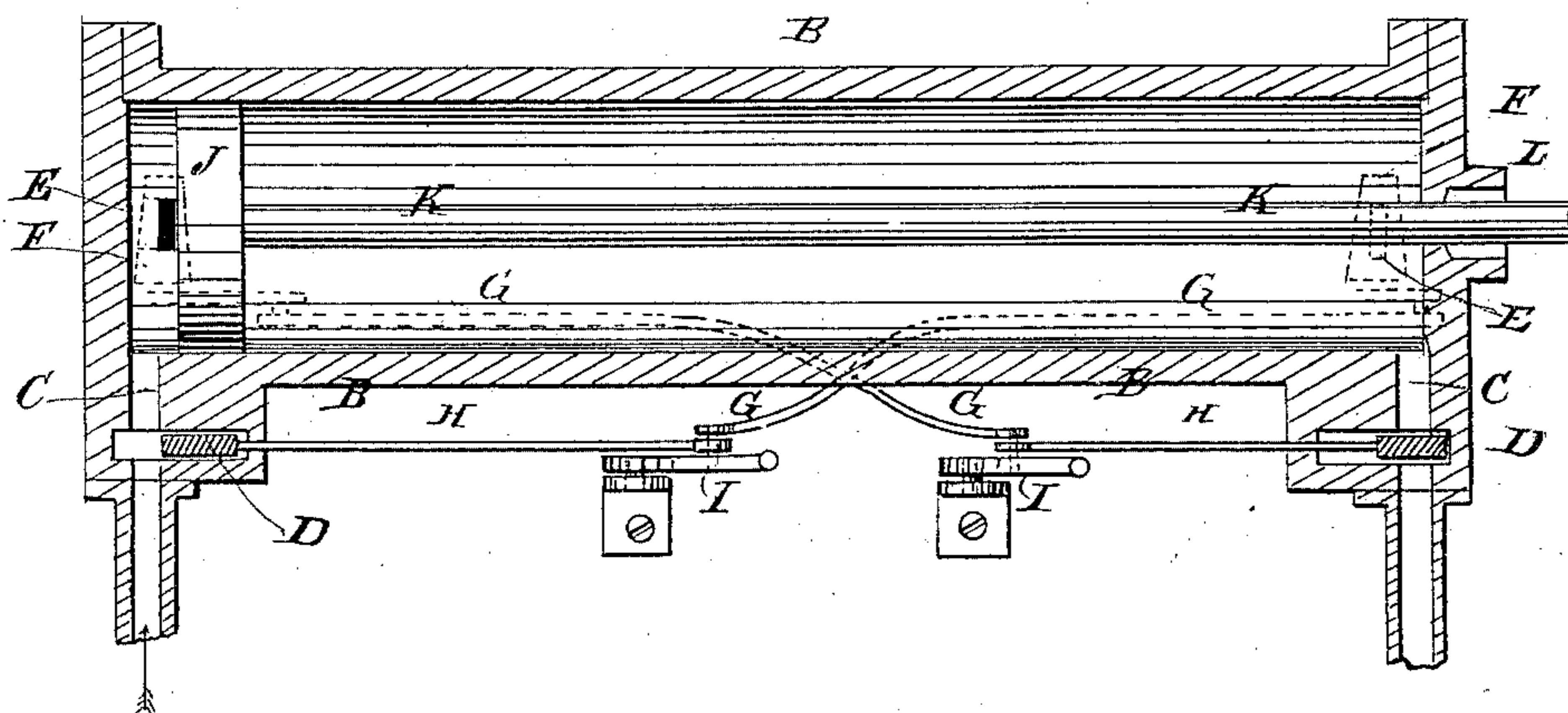
No. 313,627.

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*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY SELZ, OF PILOT POINT, TEXAS.

## FEEDER FOR COTTON-PRESSES.

SPECIFICATION forming part of Letters Patent No. 313,627, dated March 10, 1885.

Application filed August 29, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY SELZ, of Pilot Point, in the county of Denton and State of Texas, have invented certain new and useful  
5 Improvements in Feeders for Cotton-Presses, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification,  
10 in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a sectional side elevation of my improvement shown as applied to a cotton-press. Fig. 2 is a sectional plan view of the  
15 cylinder enlarged.

The object of this invention is to facilitate the baling of ginned cotton.

The invention consists in a feeder for cotton-presses, constructed with a receiving-box  
20 and a feed-box separated by a sliding plate attached to a follower secured to the piston-rod of a steam-cylinder, to adapt the said feeder to be interposed between a cotton-gin and a baling-press. The inlet and outlet  
25 valves of the steam-cylinder are connected by two pairs of connecting-rods with two levers, so that the movements of the piston can be readily controlled, as will be hereinafter fully described.

A represents the floor of a gin-house, beneath which is placed a steam-cylinder, B. The steam-cylinder B is provided with a steam-inlet port, C, at each end, having a valve, D,  
30 and an exhaust-port, E, having a valve, F. The inlet-port at each end and the outlet-port at the other end are connected, respectively, by rods G H, with a lever, I, so that as the inlet-valve D at either end of the cylinder B is opened or closed the exhaust-valve F at  
35 the other end of the cylinder will be opened or closed.

J is the piston, the rod K of which passes out through a stuffing box, L, in the cylinder-head, and has a piston or follower, M, attached  
40 to its end. The follower M slides forward and back in the feed-box N, and has small friction-rollers, O, pivoted to its lower edge, to lessen the friction between the said follower and the bottom of the feed-box, and thus cause the said  
45 follower to move easily.

To the upper edge of the follower M is attached the forward end of the plate P, which

serves as a cover for the feed-box N, and also as a bottom to the receiving-box Q, so that the said plate P will be drawn back to open the  
55 feed-box N by the rearward movement of the said follower M, and will be moved forward or closed by the forward movement of the said follower. The plate P is supported while moving forward and back and made to move  
60 easily by rollers Z, pivoted to brackets attached to the floor A of the gin-house. By this construction cotton will be admitted into the feed-box N in front of the follower M, and will be fed into the press R by the forward  
65 movement of the said follower, and will be prevented from entering the feed-box N in the rear of the follower M, so that the feeder will not become clogged.

S is the gin-chute, which is connected with  
70 the upper rear part of the receiving-box Q, so that the cotton will be discharged from the gin into the said receiving-box. The forward side of the box Q is inclined, as shown in Fig. 1, to guide the cotton to the forward part of the  
75 feed-box N, and at the lower edge of the said forward side is placed a roller, T, to facilitate the passage of the cotton into the press R as the follower M approaches the forward limit of its movement.  
80

With an opening at the highest point of the receiving-box Q is connected the lower end of the flue U, in the lower part of which is placed a suction-fan, V, which is designed to be driven  
85 from the driving mechanism of the press, and is intended to withdraw and carry off any dust that may enter the receiving-box Q with the cotton. The lower end of the flue U is covered with a perforated sheet-metal plate, W, to prevent the cotton from entering the said flue,  
90 while allowing air and dust to escape.

In using the feeder, when the press-follower X is drawn back, the lever I is operated to open the forward inlet-valve and the rear exhaust-valve and allow the steam to drive the  
95 piston J back to the rear end of the cylinder B and withdraw the follower M to the rear end of the feed-box N, when the cotton in the receiving-box Q will fly into the feed-box N. The lever I is then operated to close the forward inlet-valve and the rear exhaust-valve, and the other lever I is operated to open the rear inlet-valve and the forward exhaust-valve, and allow the steam to force the piston  
100

J and the follower M forward, forcing the cotton in the feed-box N into the baling-box of the press R. The piston J and follower M are held forward by steam-pressure until the  
5 press-follower X has advanced and forced the cotton forward in the baling-box and has returned to its former position, when the levers I are again operated and the piston J and follower M are drawn back to again admit cotton to the feed-box N, and so on, until enough  
10 cotton for a bale has been forced into the baling-box.

The cotton in the baling-box is kept from following the follower in its return movement by  
15 notches Y, formed in the edges of the planks forming the casing of the said baling-box.

If desired, the follower M can be used for compressing the cotton in the baling-box R, in which case the follower X will not be required, and the said baling-box R can be placed  
20 in line with the feed-box N.

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

25 1. A feeder for cotton-presses, constructed substantially as herein shown and described,

and consisting of a receiving-box and a feed-box separated by a plate attached to a follower secured to the piston-rod of a steam-cylinder, to adapt the said feeder to be interposed between a cotton-gin and a baling-press and feed  
30 the cotton into the said press, as set forth.

2. The combination, with the chute S of a cotton-gin, the baling-box of a press, R, and the piston-rod K of a steam-cylinder, of the  
35 receiving-box Q, the feed-box N, the follower M, and the sliding plate P, substantially as herein shown and described, whereby the cotton from the gin will be fed into the said box, as set forth.  
40

3. In a feeder for cotton-presses, the combination, with the inlet and exhaust valves of a steam-cylinder, of the two pairs of connecting-rods G H and the two levers I, substantially  
45 as herein shown and described, whereby the movements of the piston can be readily controlled, as set forth.

HENRY SELZ.

Witnesses:

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