F. STREUBY.

Cotton-Gin and Linter-Feeder.

No. 204,690. Patented June 11, 1878.

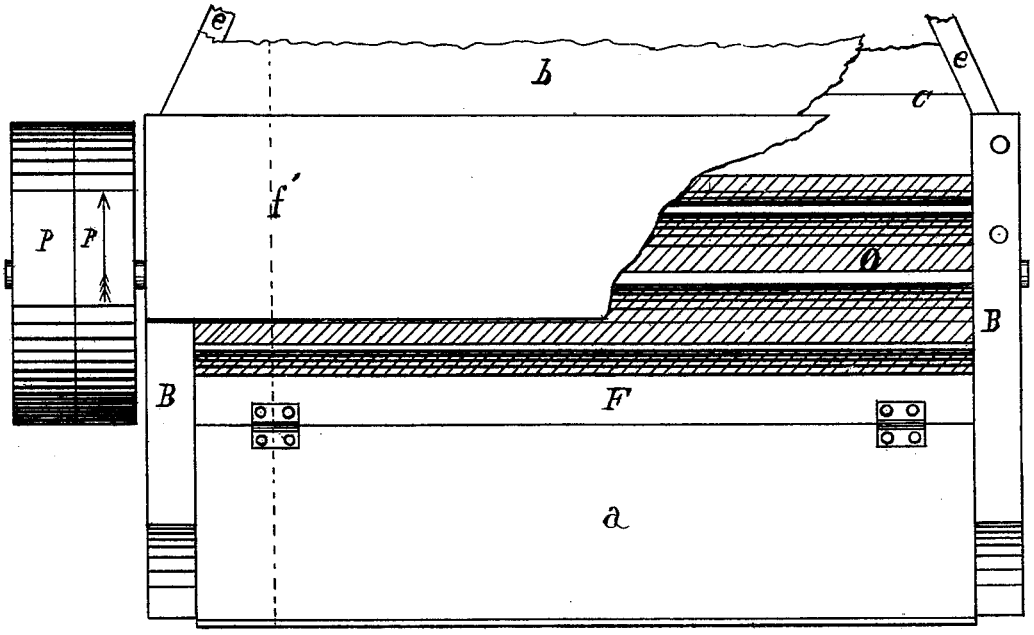

Fig. 1.

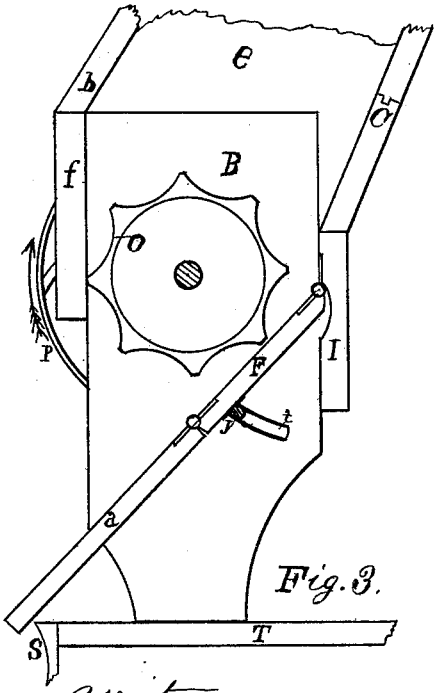

Fig. 3.

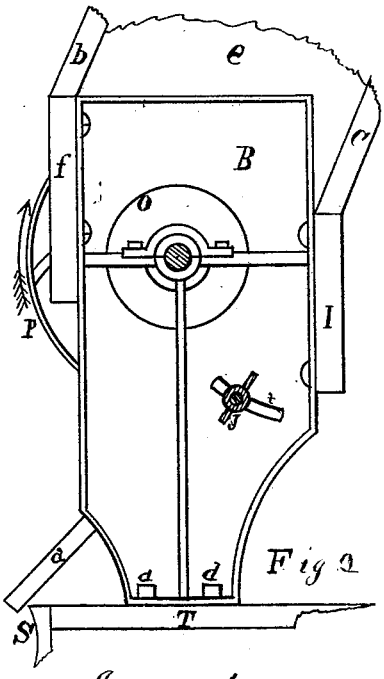

Fig 2

Witnesses
Jas. M. Hennessey.
Jos. St. Duggan

Inventor
Ferdinand Streuby

UNITED STATES PATENT OFFICE.

FERDINAND STREUBY, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN COTTON-GIN AND LINTER FEEDERS.

Specification forming part of Letters Patent No. **204,690**, dated June 11, 1878; application filed January 14, 1878.

To all whom it may concern:

Be it known that I, FERDINAND STREUBY, of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented certain Improvements in Cotton-Gin and Linter Feeders, of which the following is a specification:

The object of my invention is to feed cotton-seed when it is being reginned into the linter, and seed-cotton into the gin when being ginned, for the purpose of enabling the same person to attend to a number of gins or linters.

The means of accomplishing the foregoing consists of a device hereinafter described and illustrated by accompanying drawings, forming part of this specification, like letters referring to like parts.

It consists of a cylinder revolving in a shoe or case with adjustable appliances.

Figure 1 is a front elevation, showing the upper portion of the hopper and a portion of the right-hand end of the front *f* broken away. Fig. 2 is an end elevation of the same as seen from the right-hand end, with the apron *a* hooked up to the front *f*. Fig. 3 is a sectional elevation cut through the dotted line at *f'* of Fig. 1.

O, the cylinder, has lateral segmental recesses in its periphery. It is provided with a rigid and a loose pulley on its axle or shaft, the bearings of the latter forming part of the housings B B, which constitute the ends of the case or shoe, to which the back I and front *f* are secured.

The feed-board F is attached to the back I by means of hinges on its upper edge, and has in turn the apron *a* hinged to its lower edge, thereby forming a lateral joint, so as to allow F to move up and down without changing the resting-point of *a*.

F, the feed-board, is provided with set-screws J J, passing through the arc-formed slots *t t* in housings B B, by which it is adjusted and held in proper position.

The hinging of the apron *a* to the feed-board F permits said feed-board to be adjusted much lower, and leave a much wider opening between itself and the cylinder than if the two were connected rigidly together, and allows the section *a* to be hooked up to the shoe-front *f* for cutting off the feed and removing the section *a* out of the way of the grate-fall of the gin when being raised.

The hopper or receptacle is oblong, so as to correspond to the gin or linter it is intended to feed. *e e* constitute its ends, and *b* and C its back and front. These parts are made smallest at their upper ends, thus forming a hopper that tapers upwardly—in other words, an inverted hopper. Its upward length may be extended to suit convenience. The object of the inverted hopper is to do away with friction against the sides by the descending cotton and cotton-seed, thereby avoiding choking, jamming, or blocking of the aperture through which they descend. No other hopper would serve the purpose.

S shows the position of the back of the cotton-box of the gin or linter, as the case may be, and T the frame of the same, to which the feed attachment should be secured. The attachment, as herein described, is for feeding the linter-gin when reginning cotton-seed. When it is intended for feeding the ordinary cotton-gin the cylinder should be larger and the recesses coarser.

Operation: The seed, being cast into the hopper, finds its way down to the cylinder, the periphery of the latter passing so near the front *f* that seed cannot pass between, but fill the recesses of the cylinder O, which is revolved by means of its pulley, in the direction indicated by the arrow, toward the back I, which affords space to allow it to drop upon the feed-board F, which allows only the requisite quantity to pass. As the recesses pass the point of contact with the feed-board, the seed drops from them and slides over the apron *a* into the cotton-box of the linter or gin. The quantity of feed is adjusted by raising or lowering the feed-board, and the operation is stopped by means of the loose pulley.

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

The combination of the hopper *b b* C *e*, the feeding-cylinder O, and the hinged adjustable feed-board F, with apron *a* hinged thereto, substantially as herein set forth.

FERDINAND STREUBY.

Witnesses:

ANDREW HERO, Jr.,

W. W. LAMBERTON.