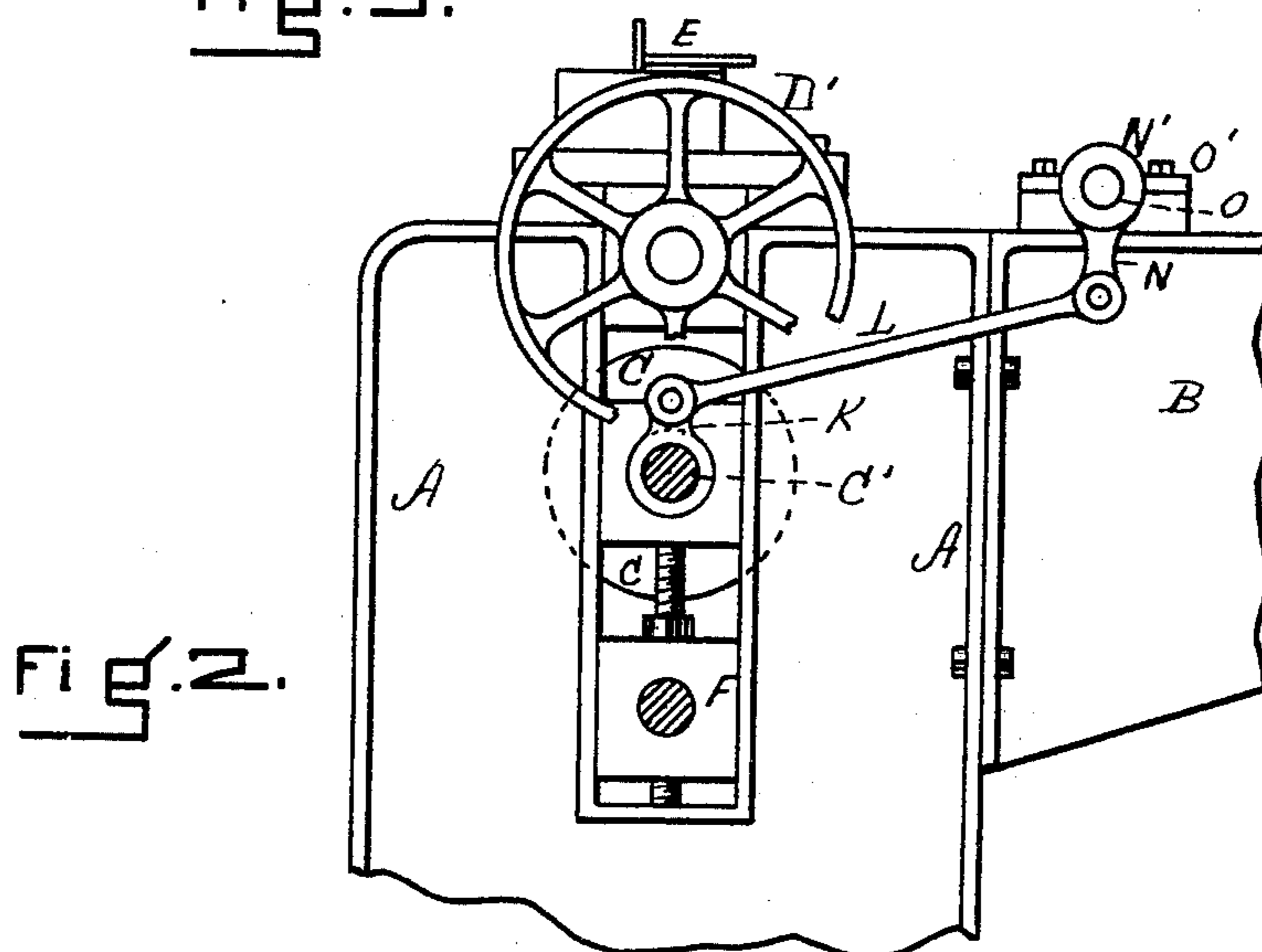
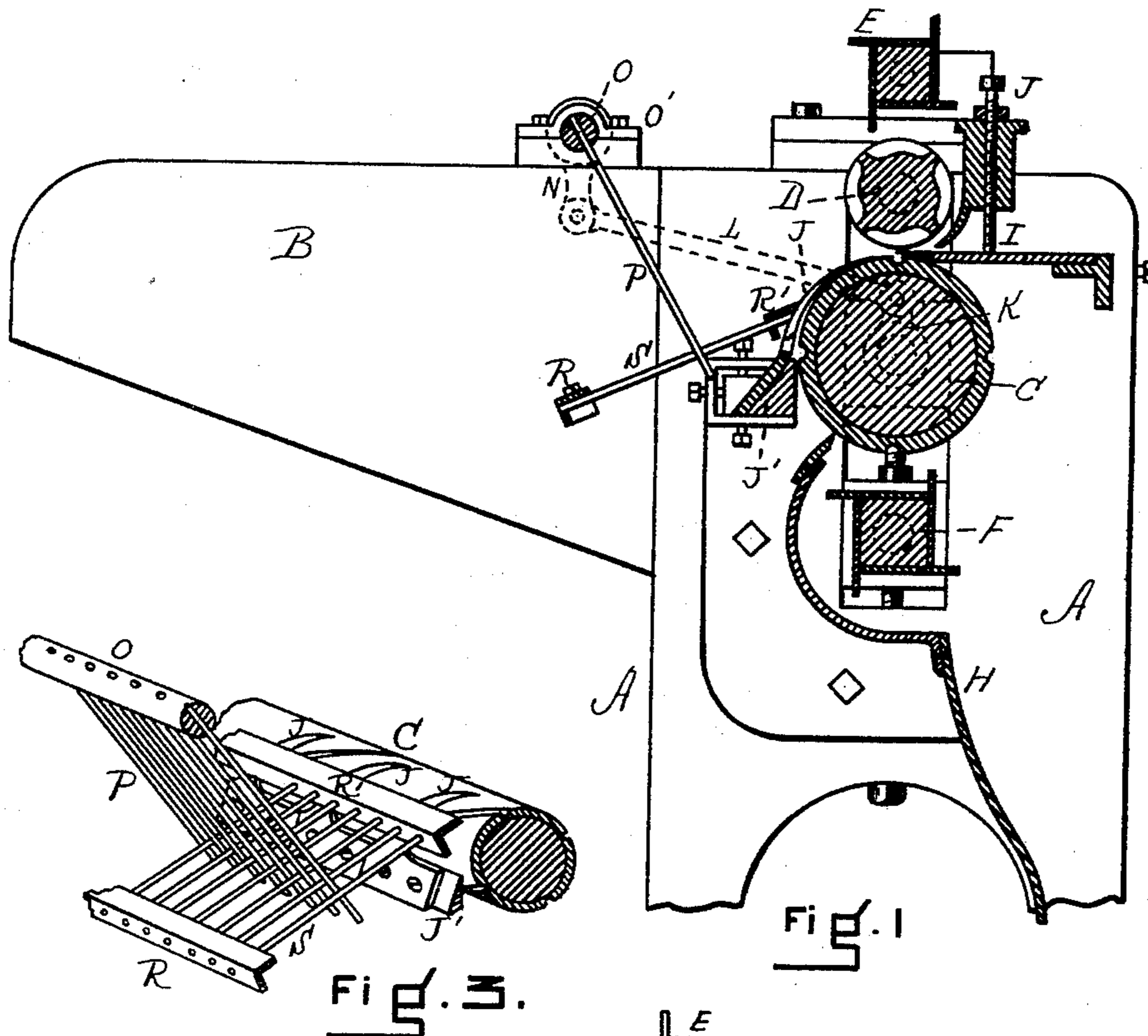


(No Model.)

F. H. CHASE.
ROLLER COTTON GIN.

No. 435,886.

Patented Sept. 2, 1890.



WITNESSES.

B. M. Williams
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INVENTOR.

Frank H. Chase.
By his Atty.
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UNITED STATES PATENT OFFICE.

FRANK H. CHASE, OF HAVERHILL, MASSACHUSETTS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE CHASE COTTON GIN COMPANY, OF NEW HAMPSHIRE.

ROLLER COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 435,886, dated September 2, 1890.

Application filed April 28, 1890. Serial No. 349,783. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. CHASE, of Haverhill, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Roller Cotton-Gins, of which the following is a specification.

My invention relates to that class of cotton-gins known as "roller-gins," and it consists in the application thereto of a "whipper," the use and construction of which are fully described below and illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical section of the operative parts of a roller cotton-gin with my invention embodied. Fig. 2 is a side elevation in detail of a portion of the gin. Fig. 3 is a perspective view showing portions of the drawing-roller and the whipper in position.

Similar letters of reference indicate like parts.

A represents the frame.

B is the table from which the seed-cotton is fed into the machine.

C is the drawing-roller.

D is the beater or stripper driven by the wheel D'.

E is the upper doffer for throwing back the unginned cotton.

F is the lower doffer for taking down the ginned cotton to the board H, and I is the pressure-bar adjusted by the screw mechanism J, none of said parts being new in this invention, and the operation of them being well known in the art to which this device appertains.

J J' are fingers and a finger-bar constructed as described in Letters Patent numbered 418,908, dated January 7, 1890.

On the shaft C' of the drawing-roller C is fixed a crank K, to which is pivotally secured a rod or pitman L, whose opposite end is piv-

otally secured to the crank N, whose hub N' is rigidly secured on the oscillating shaft O, having bearings in the journal-box O'. From this shaft O extends a series of rods P, preferably metallic, the whole constituting what I term a "whipper."

R is a horizontal bar, preferably of angle shape, as shown, bolted to the table B. Bars or wires S extend from the bar R to a similar bar R', parallel with the bar R and lying next and on the fingers J, the whole forming a grate. The rods P lie, as shown in Fig. 3, between the stationary bars or wires S. It will readily be seen that the rotation of the roller-shaft C' causes the shaft or whipper-frame O to oscillate and the rods P to swing back and forth rapidly between the bars S of the grate. As the cotton is dropped onto the grate, therefore, the whipper, striking it, bats the seeds out that have already been stripped of their lint. In other words, it removes the seeds that have been stripped of their lint, having been ginned and thrown back by the beater.

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

1. In a roller cotton-gin, the combination of the oscillating shaft O and rods P, constituting the whipper, and frame, as R R', and the bars S, constituting the grate, constructed to operate substantially as set forth.

2. In combination, the roller C and roller-shaft C', crank K, pitman L, crank N, oscillating shaft O, provided with the rods P, and stationary frame R R' and bars S, all constructed and arranged substantially as described.

FRANK H. CHASE.

Witnesses:

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