

No. 658,527.

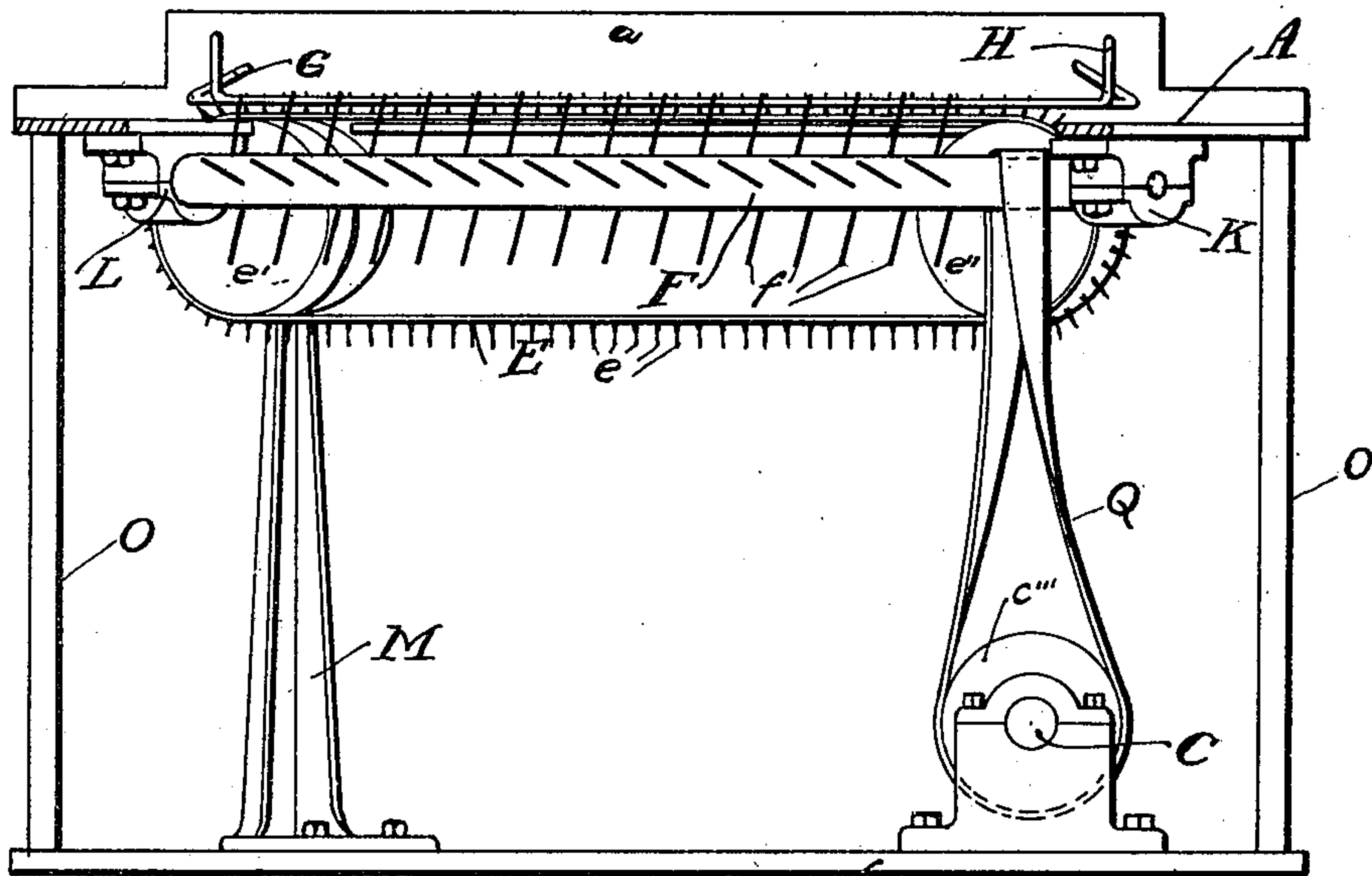
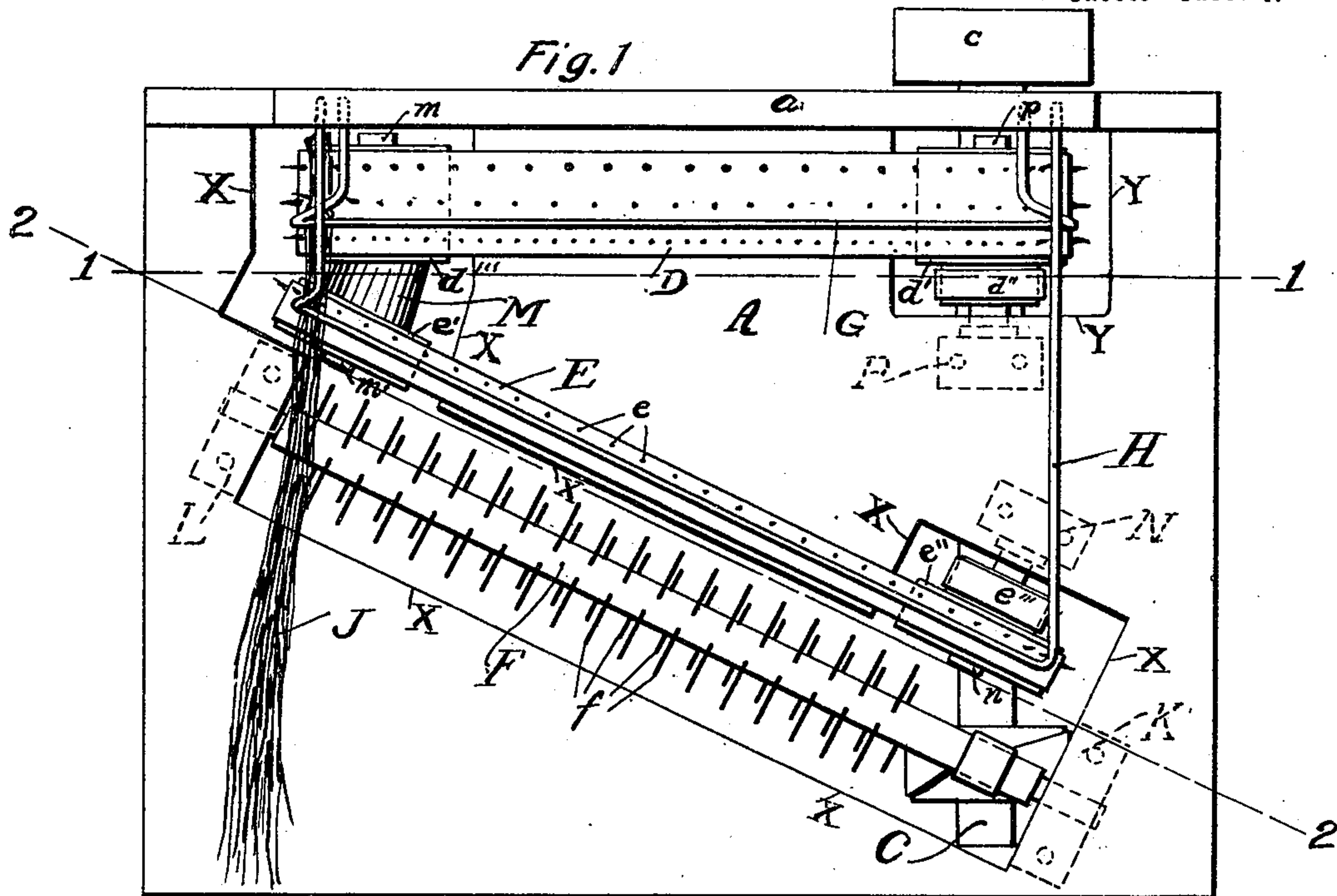
Patented Sept. 25, 1900.

P. LAMBOY.
BROOM CORN CLEANER.

(Application filed Nov. 27, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses

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Fig. 3.

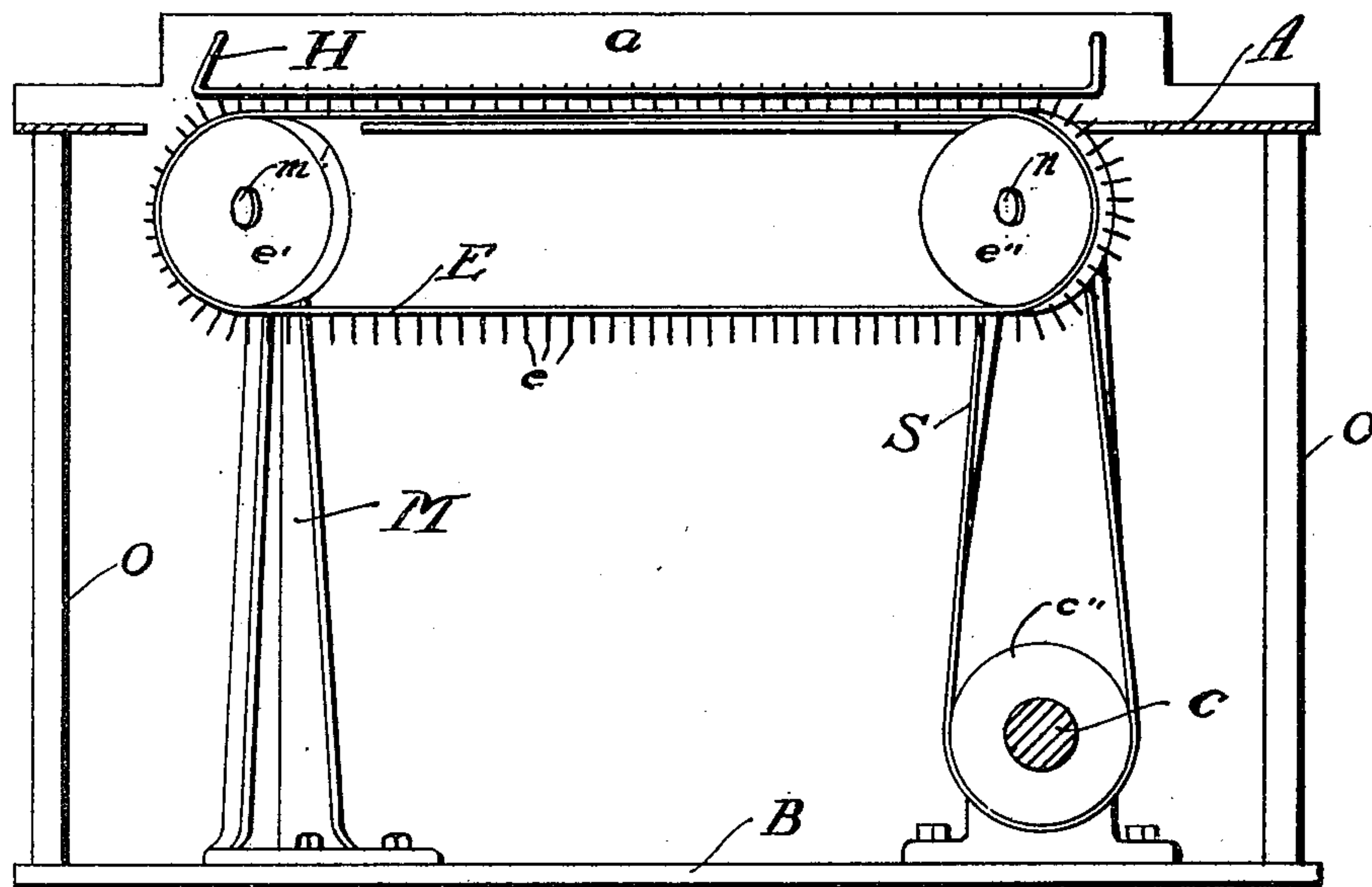
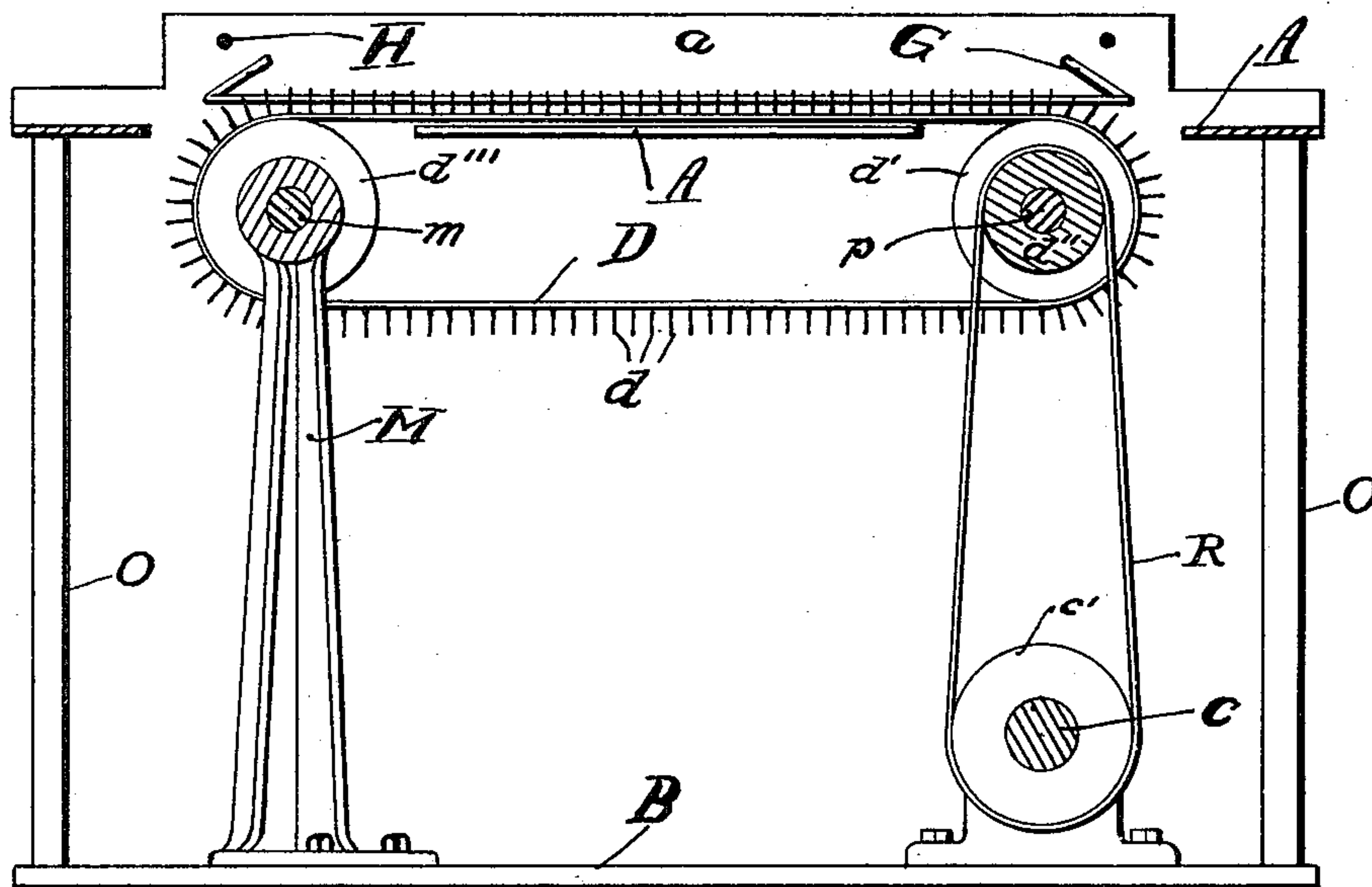


Fig. 4.

WITNESSES

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UNITED STATES PATENT OFFICE.

PHILIP LAMBOY, OF AMSTERDAM, NEW YORK.

BROOM-CORN CLEANER.

SPECIFICATION forming part of Letters Patent No. 658,527, dated September 25, 1900.

Application filed November 27, 1899. Serial No. 738,303. (No model.)

To all whom it may concern:

Be it known that I, PHILIP LAMBOY, a citizen of the United States, residing at Amsterdam, in the county of Montgomery and State of New York, have invented certain new and useful Improvements in Broom-Corn Cleaners; 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 appertains to make and use the same.

My invention has for its object to provide means for removing seeds, dirt, and all foreign matter from broom-corn, and especially to provide means for holding the broom-corn securely in position while being subjected to the action of the cleaning mechanism. This I accomplish by the means illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a machine embodying my invention. Fig. 2 is a side view of the same, showing part of the surface table broken away. Fig. 3 is a longitudinal cross-section taken on line 1 1 of Fig. 1, and Fig. 4 is a longitudinal section taken on line 2 2 of Fig. 1.

As illustrated in the drawings, A represents a surface table supported upon suitable standards or legs O. The surface of the table A is shown broken away to form an opening, (indicated by the line X.) An additional opening is also shown made in the surface of the table, (indicated by the line Y.) A shaft F, extending in an oblique line, is mounted in bearing-boxes K and L, which are preferably secured to the under side of the table. The shaft F is provided with pickers *f*, which project above the surface of the table A. A twisted driving-belt Q connects the outer end of the shaft F and the pulley *c'''*, mounted on the main driving-shaft C. An endless carrying-belt D, provided with retaining-points *d*, (shown in Fig. 3,) is mounted on pulleys *d'* and *d'''*, which pulleys are supported on journals *p* and *m*, respectively. The journal *p* is supported in the bearing-box P, preferably secured to the bottom of the table A, and the journal *m* has its bearing in the upper end of the standard M. A belt-pulley *d''* is also secured to the journal *p* and is connected by means of a driving-belt R with the pulley *c'*, mounted upon the driving-shaft C.

An auxiliary endless carrying-belt E, provided with retaining-points *e*, is mounted upon pulleys *e'* and *e''*, which pulleys are mounted on journals *m'* and *n*, respectively. The journal *m'* is supported on the upper end of the standard M, and the journal *n* is supported in the bearing-box N, preferably secured to the under side of the table A. The journal *n* also supports a pulley *e'''*, which is connected with a pulley *c''* on the main shaft C by means of a twisted belt S. A projecting flange *a* extends upward from the edge of the table A and serves to guide the material in its course. A spring-bar H extends outward from the flange *a* in parallel lines at its ends, and its central portion extends in line with and over the carrying-belt E and is designed to press the broom-corn on said belt. A spring-bar G, having its ends secured to the flange *e*, extends in line with the endless belt D and holds the material in place on the belt D.

When the machine is in operation, bunches of broom-corn are placed upon the table A at the end where the endless carrying-belts D and E converge toward each other and taken up by said carrying-belts and carried along by the retaining-points on said belts. The spring-bar H presses the material on the belt E and the bar G presses it upon the belt D. As the outer, or free end of a bunch J of broom-corn passes along over the shaft F the pickers *f* thoroughly clean the same.

I do not desire to be limited to the specific construction of the several parts herein shown, as modifications of the same may be used without departing from my invention, and in some cases some of the parts may be used without the others.

In the devices heretofore used for cleaning broom-corn two cylinders or shafts provided with pickers have been used arranged one above the other obliquely to a carrying-belt. In such construction the broom-corn is fed on the carrying-belt where it diverges most from the picker shafts or rollers. The upper and lower rollers in such cases are used to support one end of the broom-corn, while the other end is supported on the carrying-belt. In my construction I dispense with the upper roller and use only a single roller or shaft provided with cleaning fingers or pickers. The

broom-corn is fed onto the carrying-belts and roller where they converge. The auxiliary carrying-belt is arranged parallel with the shaft containing the cleaning-fingers and
 5 holds the broom-corn securely in place, because it is arranged close to the cleaning shaft or cylinder and is enabled thereby to obtain a hold on such broom-corn close to such cleaning shaft or cylinder and at the same time
 10 prevents the cleaning or picking fingers from drawing the broom-corn away from the main carrying-belt D.

By using one cleaning cylinder or shaft instead of two the seed end of the broom-corn
 15 is left free to rebound against the picking-fingers of the cleaning-shaft and permits the cleaners of said shaft to whip such end of the broom-corn more thoroughly and completely than could be done with the use of two cylinders.
 20 ders.

In some instances I prefer to dispense with

the spring-bars G and H and mount the endless belts upon pulleys, which belts may be arranged to press down upon the broom-corn by spring tension and hold it securely to the
 25 carrying-belts.

What I claim is—

In a broom-corn cleaner, the combination with a main carrying-belt, of a rotating shaft arranged at an incline to said main carrying-
 30 belt and provided with cleaning-fingers, an auxiliary carrying-belt arranged parallel to the axis of said rotating shaft, and provided with retaining-points, and means for operating said carrying-belts and rotating shaft,
 35 substantially as shown and described.

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

PHILIP LAMBOY.

Witnesses:

ROBERT W. HARDIE,
 GEORGE B. YOUNG.