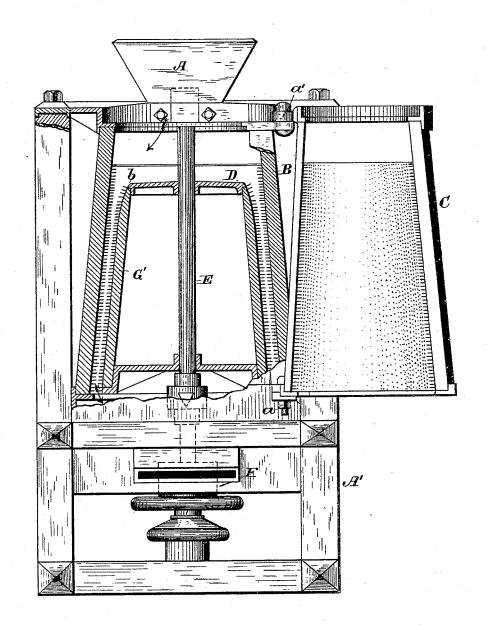
(No Model.)

J. L. WEATHERHEAD & J. S. COCHRAN.

MACHINE FOR DELINTING COTTON SEED.

No. 384,340.

Patented June 12, 1888.



ATTEST.

J. Henry Kaiser.

James & Smith.

J. S. Scather head & J. S. Cochran. by Wiedersheim & Kintne? aig,

UNITED STATES PATENT OFFICE.

JAMES L. WEATHERHEAD AND JAMES S. COCHRAN, OF PHILADELPHIA, PENNSYLVANIA.

MACHINE FOR DELINTING COTTON-SEED.

SPECIFICATION forming part of Letters Patent No. 384,340, dated June 12, 1888.

Application filed February 28, 1888. Serial No. 265,637. (No model.)

To all whom it may concern:

Be it known that we, JAMES L. WEATHER-HEAD and JAMES S. COCHRAN, citizens of the United States, residing in the city and county 5 of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Machines for Delinting Cotton Seed, of which the following is a specification.

Our invention relates to improvements in 10 machines for delinting cotton-seeds; and it consists in providing the same with an inside cone having a beveled or inclined upper end, whereby a chamber of downwardly-increasing width is formed for the purpose of separating 15 or breaking up the masses of seed before they pass into the delinting portion of the device.

This improvement is fully shown in the accompanying drawing, which represents a broken vertical sectional view of a machine 20 for delinting cotton seeds embodying our invention.

Referring to the drawing, A represents a hopper secured on the upper portion of the frame A' of the machine, and opens into the 25 stationary conical easing B, which is secured in place to the frame A'. One portion of the conical easing B is composed of a door part, C, which is so secured to the other portion as to admit of its being swung outward in a 30 horizontal direction. The means employed for this purpose consists of a hinge, a, the members of which, respectively, are secured to the lower portion of the side of the door and to the other or main portion of the cone, 35 and a hinge, a', the members of which are secured at the upper side portions, the members of the hinge a' being made larger than those of the hinge a, so that the pins of said hinges shall stand in the same vertical line, 40 and the door will readily swing in a horizontal

without a fastening device.

D represents an inner revolving cone mounted on the vertical shaft E, the latter 45 being suitably journaled in the frame of the machine and provided with the pulley F, by means of which rotary motion can be communicated to said shaft and cone from any suitable motor connected thereto by proper mech-50 anism. The upper end of said cone D is rounded off or beveled, or tapering toward the axis at a greater angle than the lower portion of its height, whereby a chamber, c, is formed between the cone D and the conical

direction and remain in place when opened

easing of downwardly-decreasing width, sur- 55 rounding the upper portion of said cone and

between it and the cone B.

The outer surface of the cone D and the inner surface of the cone B have secured thereto the metallic brushes G, the wires whereof 60 being attached to long strips of leather or other suitable material, the strip being preferably wound spirally on the inner cone, and the brushes on the inner surface of the outer cone extending above the top of the inner 65 cone. The chamber c constitutes a downwardly-contracted or tapering seed-receiving chamber having brush clothed opposite walls.

The operation is as follows: The cotton seed is fed into the hopper A of the machine, fall- 70 ing on the upper end of the cone D, when, owing to the centrifugal motion of the shaft E and cone, it is forced or thrown against the brushes on the upper portion of the cone B, working down through, and falls into the 75 chamber c, in which the masses of seed are separated, so that they readily and uniformly pass therefrom between the brushes of the lower or delinting portion of the machine. As the seed and lint reach the bottom of the So cones they are discharged therefrom, and may be separated by any usual device, as a fan or blower, such means being common and well known, and, not being claimed per se herein, are not shown in the drawing.

Having thus described our invention, what we claim as new, and desire to secure by Let-

ters Patent, is-

The combination, with the conical casing B, having its interior surface clothed with 90 brushes, as described, of the cone D, having its exterior surface clothed with brushes and having its upper portion rounded off or tapered toward its axis at a greater angle than the lower portion of its height, as described, 95 and thereby forming between the said cone and casing a downwardly - contracted or tapering seed receiving chamber having brushclothed opposing walls, as described, providing for the separation of the seeds and facili- 100 tating their entrance between the acting surface of the cone and casing, substantially as described.

JAMES L. WEATHERHEAD. JAS. S. COCHRAN.

Witnesses:

WILLIAM S. EDGELL, Benton O. Severn.