

(No Model.)

2 Sheets—Sheet 1.

B. O. SAVAGE.
COTTON HARVESTER.

No. 300,739.

Patented June 17, 1884.

Fig. 1.

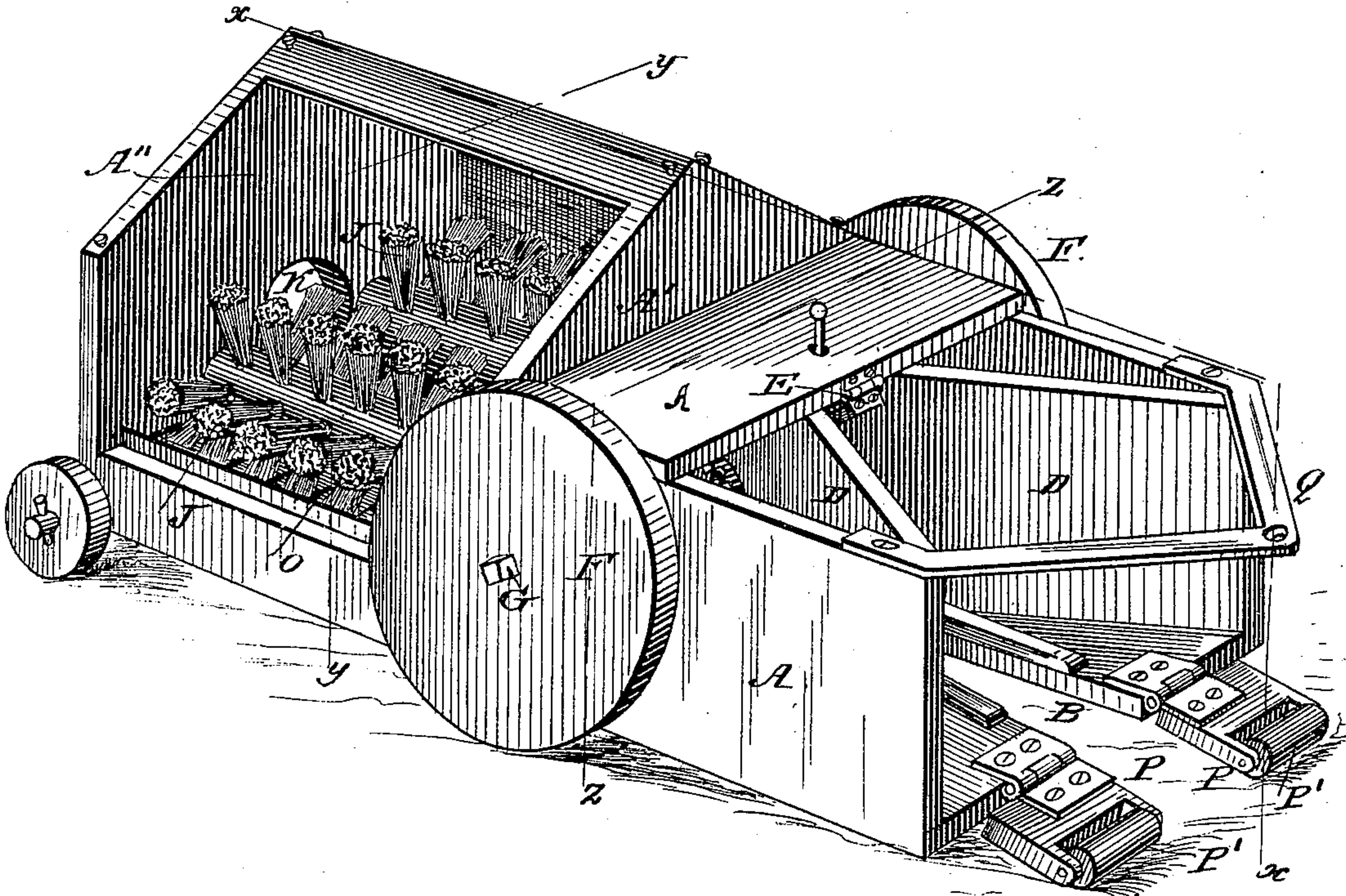
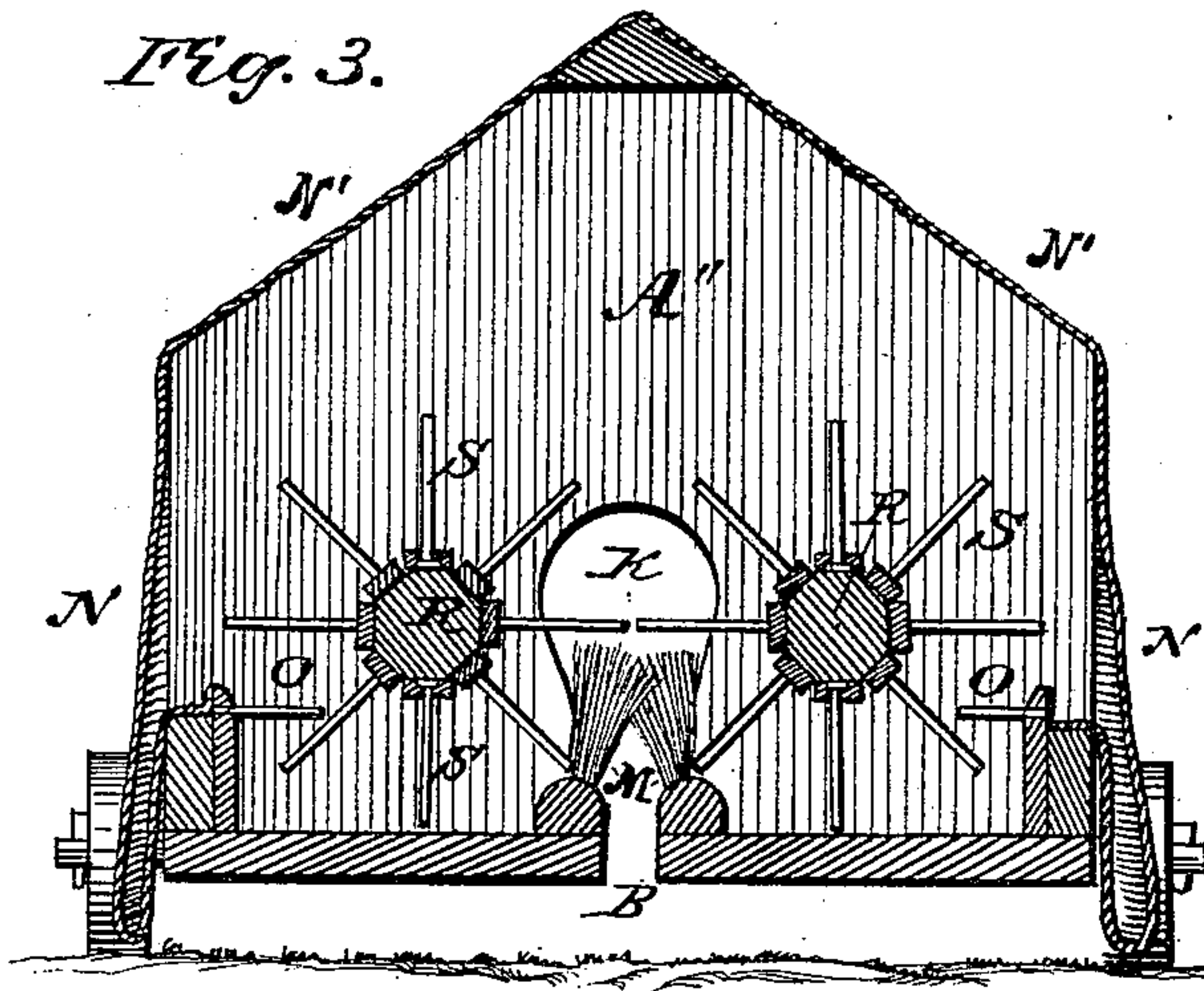


Fig. 3.



WITNESSES:

Wm. H. Dieterich
J. Fred. Reily

INVENTOR.

Benjamin O. Savage
By *Louis Bagger & Co.*
ATTORNEYS.

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2 Sheets—Sheet 2.

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Fig. 2.

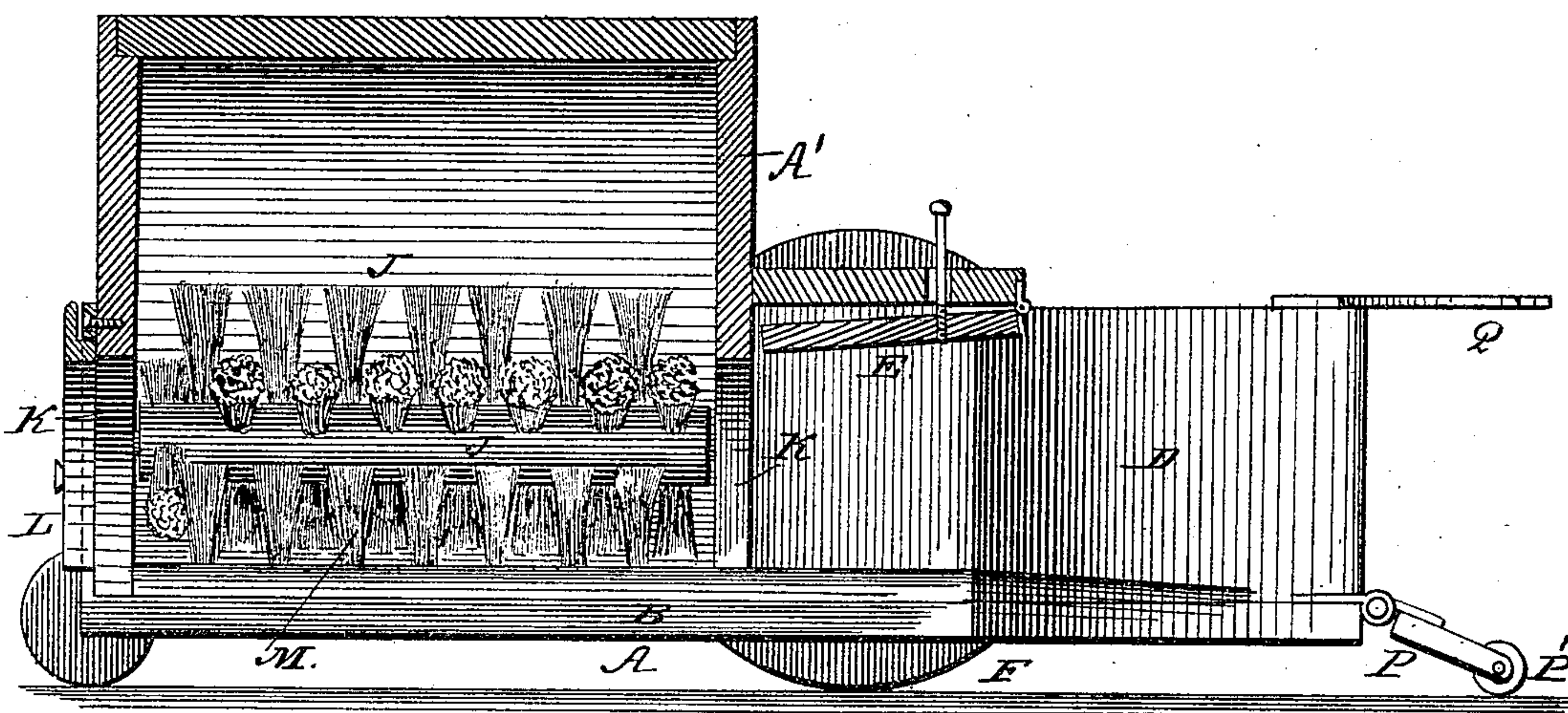
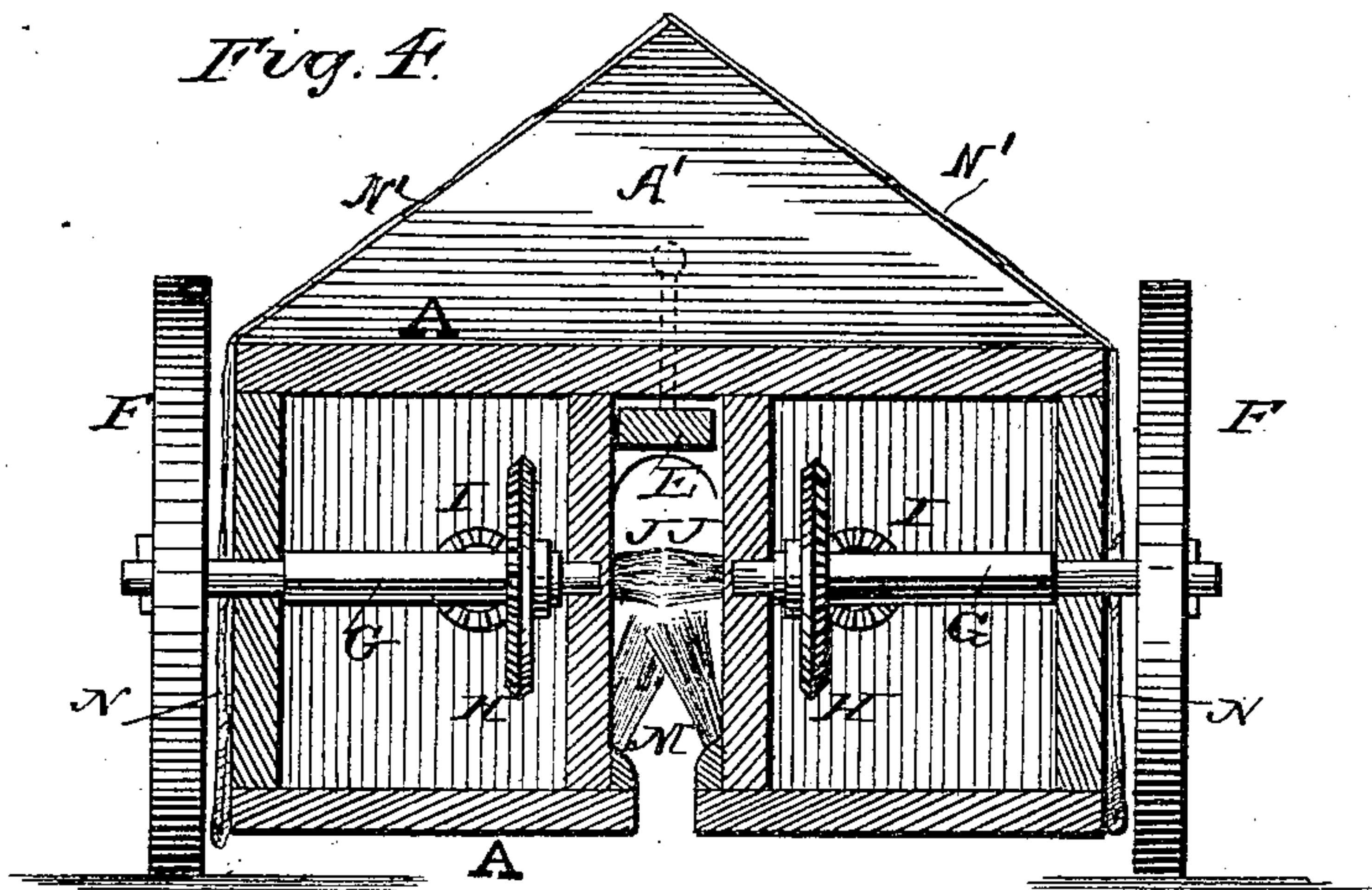


Fig. 4.



WITNESSES:

Fred. L. Dieterich.
J. Fred. Reily.

Benjamin O. Savage
INVENTOR.

Louis Ragger & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

BENJAMIN O. SAVAGE, OF SCOTLAND NECK, NORTH CAROLINA, ASSIGNOR TO
LILIAN O. SAVAGE, OF SAME PLACE.

COTTON-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 300,739, dated June 17, 1884.

Application filed September 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN O. SAVAGE, a citizen of the United States, and a resident of Scotland Neck, in the county of Halifax and State of North Carolina, have invented certain new and useful Improvements in Cotton-Harvesters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved machine for picking cotton. Fig. 2 is a longitudinal vertical sectional view of the same on line *xx*, Fig. 1. Fig. 3 is a cross-sectional view on line *yy*, Fig. 1; and Fig. 4 is a similar view on line *zz*, Fig. 1.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to machines for picking cotton, and which may also be used for picking peas, beans, &c.; and it consists in the improved construction and combination of parts of the same, as will be hereinafter more fully described and claimed.

In the accompanying drawings, A represents the frame of the machine, having the partition A', which separates the rear part of the machine, in which the cotton-picking brushes revolve from the forward part. The bottom of the machine has a longitudinal opening, B, extending centrally through its entire length, the said opening dividing the bottom of the machine into two equal parts, and affords a passage between the brushes J for the cotton-bush. The opening B gradually widens as it approaches the front end of the machine, in order to afford ready access to the cotton-bush. The front end walls, D, of the machine are inclined inward to form guides for the cotton-bush, the space between the inner converging ends of said walls corresponding to the width of the opening B.

E indicates a guide-plate, which is hinged at one end to the top of the frame A between the inner converging ends of the guide-walls D, and which may be raised or lowered accord-

ing to the height of the row of bushes which is being operated upon.

F F represent the forward wheels, which are also the drive-wheels, each wheel being mounted upon the outer end of an axle, G, each axle having secured upon it near its inner end a gear-wheel, H, adapted to mesh with a pinion, I, on the forward end of each of the brush-axles.

J J represent the revolving brushes, which may be made of either wire, hair, steel, or whalebone, or a combination of any or all of these, with or without caps of rubber, leather, or other suitable material, the shafts upon which the brushes turn having their ends journaled in the rear end wall of the frame A and the partition A', the forward end of each shaft extending through the partition A', and having upon its extremity a pinion, I, previously referred to. The rear end wall of the frame and the partition A' are both provided with suitable openings, K, to admit the passage of the bushes, the rear end wall being further provided with an adjustable slide or gate, L, which may be raised or lowered, as desired, and which is preferably made somewhat in the shape of a horseshoe, as in the example. A row of upwardly-projecting brushes, M, are rigidly secured upon each side of the opening B, and serve to operate upon the bolls upon the lower branches of the cotton-bush, which the revolving brushes J J would pass above. The friction of the ends of the brushes M against the bolls upon the lower branches of the cotton-bushes causes the said brushes to operate in substantially the same manner as the revolving brushes J.

N N indicate the removable bags or receptacles into which the picked cotton falls from the revolving brushes J J, the receptacles being provided with extensions *n'*, which form covers for the upper part of the chamber A'', and prevent particles of cotton from flying out of the said chamber. Upon the upper edge of the side walls of the chamber A'' are secured a series of inwardly-projecting teeth, O O, which serve to free the revolving brushes J J from all particles of cotton which may adhere to them. To the forward end of the bottom

of the frame A, on each side of the longitudinal opening B, is hinged the attachment P, each of the said attachments being provided at its front end with a roller, P', the object of these 5 attachments being to elevate or take up the lower limbs of the cotton-bush in case the front wheels of the machine should be suddenly elevated.

Q indicates a draft-iron, which is secured to 10 the front of the machine, and by which draft is applied.

In picking peas, beans, &c., a cylinder, R, provided with a series of teeth, S, as shown in Fig. 3 of the drawings, may be employed 15 in place of each of the revolving brushes J J.

From the foregoing description, taken in connection with the accompanying drawings, the construction of my improved machine for picking cotton will readily be understood without requiring further explanation. 20

It will be seen that my improved machine for picking cotton is simple in construction, and, being devoid of all complicated mechanism, is not liable to break or get out of order. 25 The guide-plate E bends down the top limbs when necessary to throw the top cotton in between the bushes.

Having thus described my invention, I claim and desire to secure by Letters Patent of the 30 United States—

1. In a machine for picking cotton of substantially the described construction, the combination of the frame A, constructed as described, and provided with the inwardly-projecting teeth O O, and brushes M, with the revolving brushes J J, and means for rotating the said brushes, as and for the purpose shown and set forth. 35

2. The combination, with a cotton-picking machine of the described construction, of the attachments P P, provided with rollers P' P', and hinged to the front of the machine upon either side of the opening B, for the purpose set forth. 40

3. The combination, with a cotton-picking machine of the described construction, of the removable cotton-receptacles N N, provided with extensions N' N', adapted to serve as covers for the top of the picking-chamber A'', as set forth. 45 50

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

BENJAMIN O. SAVAGE.

Witnesses:

EUGENE T. WHITEHEAD,
JOHN Y. SAVAGE.