(No Model.)

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SEPARATOR FOR PEAS, &c.

No. 298,299. Patented May 6, 1884.

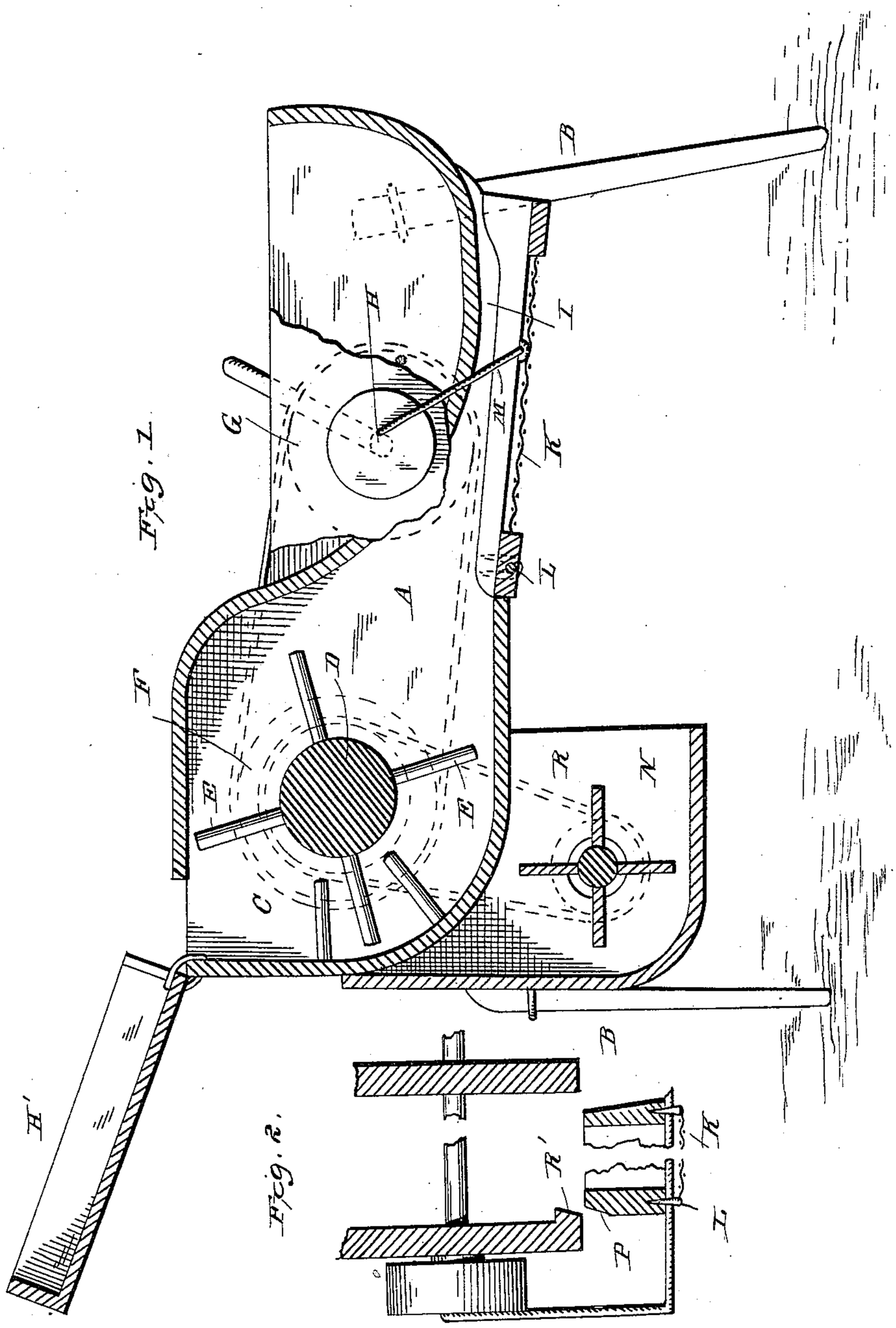

Fig. 1.

Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

ROBERT DAVIS GLADNEY, OF McCONDY, MISSISSIPPI.

SEPARATOR FOR PEAS, &c.

SPECIFICATION forming part of Letters Patent No. 298,299, dated May 6, 1884.

Application filed August 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROBERT D. GLADNEY, of McCondy, in the county of Chickasaw, and in the State of Mississippi, have invented certain new and useful Improvements in Separators for Peas, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in machines for separating peas; and it has for its objects to provide certain means whereby the peas may be separated from the pods and all chaff and dust, as more fully hereinafter specified. These objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a view in longitudinal section, showing a small portion in side elevation of my apparatus; and Fig. 2 represents a detached sectional view, showing a detached portion of the same.

The letter A indicates a shell or casing, which may be constructed of wood or other suitable material, and which is supported upon suitable legs, B. The forward portion of the shell or casing is formed with a chamber, C, in which is located a transversely-arranged shaft or drum, D, having a series of radial arms or beaters, E. The shaft projects at one side, and on its projecting end is mounted a pulley, F, which is connected by means of a band with a pulley, G, on the driving-shaft H, which is journaled in suitable bearings in the sides of the apparatus.

The letter H′ indicates an inclined box or rectangular hopper secured to the upper forward edge of the casing or shell, through which the peas in the pod may be fed to the machine. The rear or tail end of the machine is contracted, as indicated by the letter I, and the lower portion or bottom of said contracted portion consists of a reticulated frame, K, supported upon pins L, and connected to the driving-wheel by means of link M in such manner that a vibratory motion will be imparted to the frame when the apparatus is in operation. Below the shell A, at the forward end, is located a fan-chamber, R, having an opening directly below the bottom of said shell or casing. The said casing is provided with a rotary fan, N, one end of the shaft of which projects at one side of the apparatus, and has mounted on it a pulley, which connects by a band with the cone-pulley F, by which motion is imparted to said fan. The upper edge of the reticulated frame at one side is beveled, as indicated by the letter P, Fig. 2 of the drawings, and the lower edge of the casing on the same side is reversely beveled, as indicated by the letter R′, so that when the respective beveled edges of the frame and casing are brought in conjunction as the frame is elevated by the link, a vibratory motion will be imparted to the frame.

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

The combination, in a pea-huller, of the crank-shaft, the connecting-links, the vertically-vibrating sieve, and the casing, having vertically-beveled edges, adapted to impart lateral motion to the sieve, substantially as and for the purposes specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 12th day of September, 1882.

ROBERT DAVIS GLADNEY.

Witnesses:

JOHN RICHARD GLADNEY,

JACK TARVER GLADNEY.