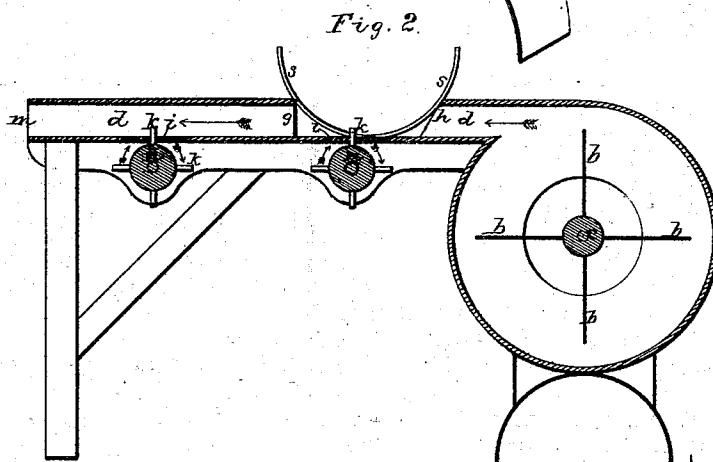
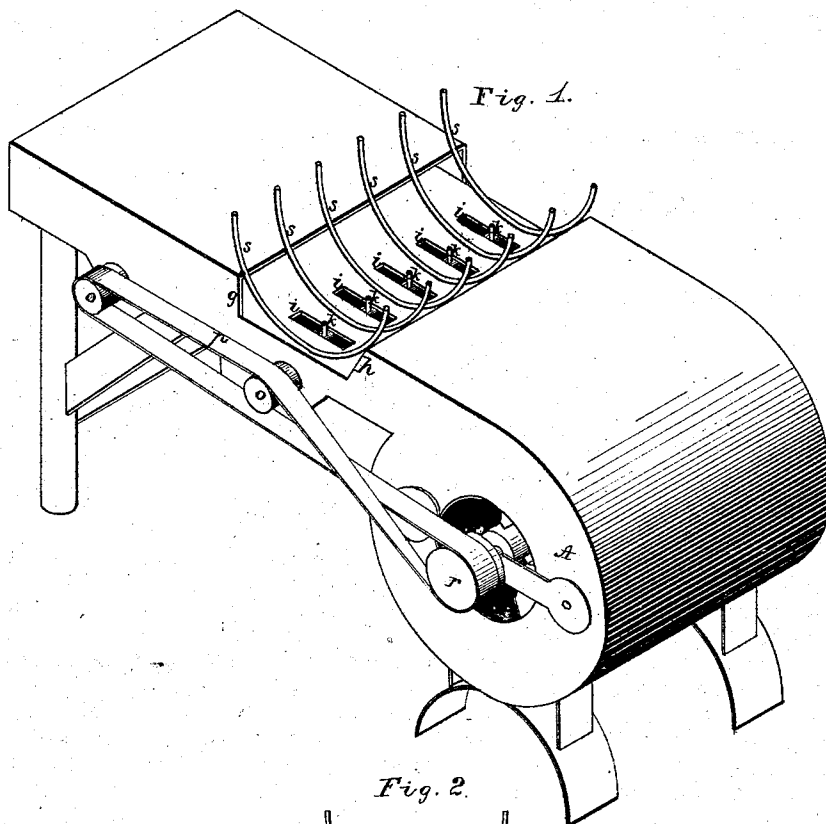


C. McDERMOTT.
Cotton Picking-Machines.

No. 152,858.

Patented July 7, 1874.



WITNESSES=
Phil. W. Hale
W. W. Murphy

INVENTOR.
Chas. McDermott.
F. A. Lehmann
att'y

UNITED STATES PATENT OFFICE.

CHARLES McDERMOTT, OF CHICOT COUNTY, ARKANSAS.

IMPROVEMENT IN COTTON-PICKING MACHINES.

Specification forming part of Letters Patent No. 152,858, dated July 7, 1874; application filed January 19, 1874.

To all whom it may concern:

Be it known that I, CHAS. McDERMOTT, of Chicot county, Arkansas, have invented certain Improvements in Machines for Cleaning Cotton, of which the following is a specification:

The nature of my invention relates to an improvement in machines for separating cotton from the stalks; and it consists in a number of revolving whips, an air flue or passage, and a fan or other device for forcing air, which are so combined that when the machine is set in motion, the whips separate the cotton from the stalks, and the current of air blows the cotton through the flue into a box prepared for it, as will be more fully described hereafter.

Figure 1 is a perspective, and Fig. 2 a longitudinal section, view of my invention.

A represents the frame, which surrounds the fan *b c*. Leading outward from the top of this cylindrical part of the frame is an air-flue, *d*, through which, when the machine is in motion, the fan forces a constant current of air, as shown by the arrows. This flue is open at its top at *g h*, and in this open space are secured a number of curved wires, *s*, on which the stalks are laid as they are cut and brought from the field, having the cotton still adhering to them. Placed under the flue *d*, at right angles to it, are two shafts, *n*, having pulleys *o* on one of their ends, and which are caused to revolve in an opposite direction to the fan by the belt *p*, which belt receives its motion from the pulley *r* on the end of the fan-shaft, as shown in Fig. 1. Attached to the shafts *n* are a number of wire whips, *k*, or long slender rods, which project up through the slots *i*

made in the bottom of the flue *d*, and which whips, revolving in an opposite direction to the current of air, separate the cotton from the stalks.

If so desired, a cover of any kind may be placed over the top of the wires *s*, and open space in the flue, so as to prevent any cotton from being blown away.

The operation is as follows: The stalks, with the cotton-pods attached to them, are laid upon the wires *s*, and the machine set in motion. As the whips revolve they separate the cotton from the stalks, and at the same time the blast of air from the fan strikes the cotton and blows it through the wires *s* into the flue *d*, or beyond, where it is still further whipped, so as to separate the cotton still more thoroughly from any adhering pieces of stalks. At the mouth *m* of the flue is placed a box to receive the cotton, which box should be of such a length that the light free cotton will be blown to its farther end, while the small pieces of stalks which may be blown into the flue will fall in a heap by themselves in the end nearest the machine.

Having thus described my invention, I claim—

The combination of a revolving fan, *b*, and air-flue *d*, the latter having openings in its top communicating with the open-bottomed hopper *s s*, in combination with the picker-cylinder armed with whippers *k k*, revolving in opposite direction to the fan, substantially as and for the purposes set forth:

CHARLES McDERMOTT.

Witnesses:

F. A. LEHMANN,
D. P. COWL.