(No Model.) 2 Sheets—Sheet 1.

J. J. GREEN, Dec'd.

H. J. WELLER, Administrator.

PNEUMATIC STRAW STACKER.

No. 588,983. Patented Aug. 31, 1897.

FIG. 1.

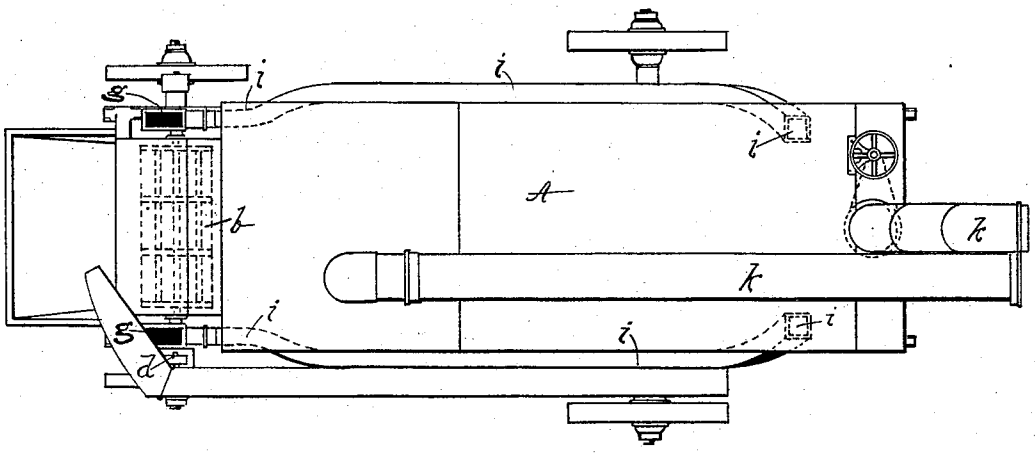
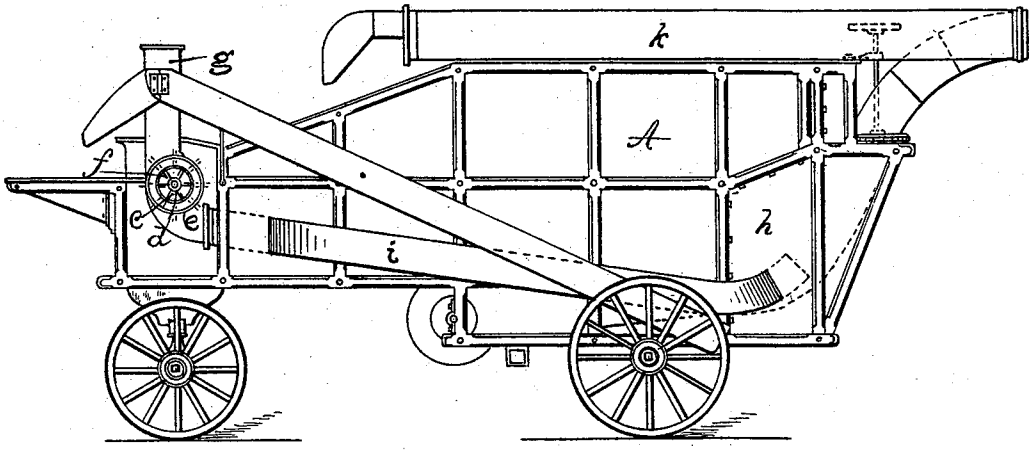


FIG. 2.



Witnesses.
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Henry J. Weller, Administrator
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By Wilson Hall Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

(No Model.) 2 Sheets—Sheet 2.

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FIG. 3.

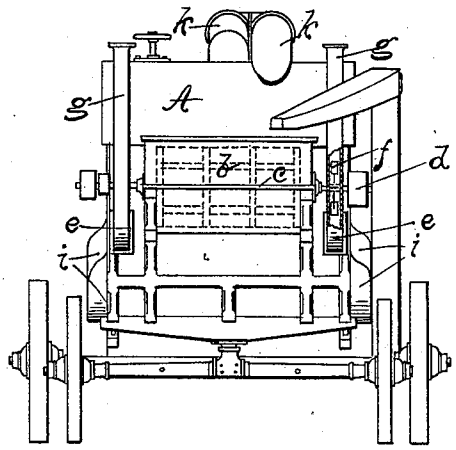


FIG. 4.

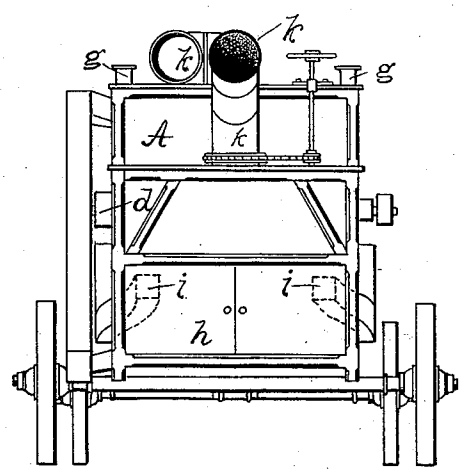


FIG. 5.

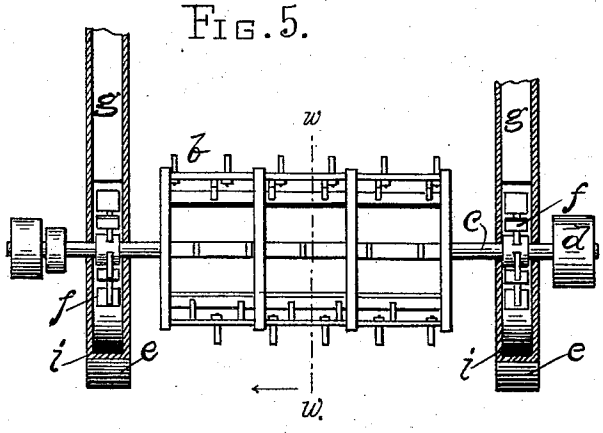
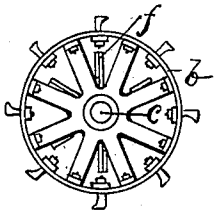


FIG. 6.



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UNITED STATES PATENT OFFICE.

JOHN J. GREEN, OF TOLEDO, OHIO; HENRY J. WELLER ADMINISTRATOR OF SAID GREEN, DECEASED.

PNEUMATIC STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 588,983, dated August 31, 1897.

Application filed October 17, 1895. Serial No. 566,017. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. GREEN, a citizen of the United States, residing at Toledo, Lucas county, Ohio, have invented certain new and useful Improvements in Pneumatic Straw-Stackers, of which the following is a specification.

In machines of this class heretofore in use the fan or fans provided to create an air-blast for the straw-stacker have been located at or near the rear part of the threshing-machine, clover-huller, or the like, and the fan or fans have been driven by a system of gearing, belts, pulleys, &c., intermediate the fan and the threshing-cylinder shaft, which is also the driving-shaft of the machine. These intermediate connections and gearing are heavy, expensive, subject to breakage, and require frequent oiling, and the fans so located are apt to draw in with the air hard foreign substances, which are likely to do injury to the fan, its bearings, or other part of the machine. Moreover, when the fans are thus arranged if it is desired to remove the dust, which always hangs in a cloud about the man who feeds the cylinder, this must be accomplished by a separate and independent means.

My invention relates to and its object is to provide means for overcoming the objections and difficulties here pointed out, and more particularly to fix the fans designed to produce the air-blast for my pneumatic conveyer directly to the shaft of the threshing-cylinder, thus dispensing with the heavy, cumbersome, and expensive connections above alluded to, and to providing means for taking the air for such fans from directly above the mouth of the cylinder-chamber, thereby relieving the operator from the dust which usually renders such occupation excessively laborious and burdensome. I attain these objects by means of the device and arrangement of parts hereinafter described, and shown and illustrated in the accompanying drawings, made part hereof, in which—

Figure 1 is a top plan view of a threshing-machine provided with my pneumatic stacker folded for transportation; Fig. 2, a side elevation of the same; Fig. 3, a front end elevation of the same, partly in section; Fig. 4, a rear end elevation of the same; Fig. 5, an enlarged detail view of the cylinder and fans hereinafter referred to in central longitudinal vertical section through the air-inlets with the cylinder-casing removed; and Fig. 6, a transverse sectional elevation on line *w*, Fig. 5.

Like letters of reference indicate like parts throughout the several views.

In the drawings, A is the body or box of a threshing-machine mounted upon wheels in the usual way, having at its forward end the toothed threshing-cylinder *b* and in its interior the usual riddles, screens, shakers, conveyers, fans, &c., to be found in threshing-machines and which need not be here further described.

c is the shaft of the toothed threshing-cylinder, and *d* the driving-pulley secured thereon. This shaft at each end projects through the blowing-fan casing *e*, secured to the outside of the box or casing of the cylinder, and upon each end of this shaft is secured within the blower-case a blower or fan *f*. An air-conduit *g g* leads from any desired point over the cylinder-box into each of the fan-casings *e*. At the rear end of the machine and at its under side is a chamber *h*, into which the straw, which has parted with its grain, is conveyed. Leading from each blower *f* and terminating in the chamber *h* is an air-conduit *i*. Leading from the chamber *h* is a stacker-tube *k*, adapted to be rotated both horizontally and vertically, for which purpose any of the well-known devices in common use may be adopted.

The operation of my device is obvious. The cylinder being caused to revolve rapidly through its shaft and driving-pulley the fans on the same shaft are also caused to revolve at a high rate of speed, drawing the air from above the cylinder-casing through conduits *g* and driving it on each side of the machine through conduits *i* into the chamber *h*, where the blast catches the straw there deposited and drives it out through stacker-tube *k* to the desired point.

I do not limit my invention to a blower on each end of the cylinder-shaft, as obviously a single fan of sufficiently large capacity at either end of the shaft will answer; but I pre-

fer two blowers, as above described, for the reason that they equalize the draft on the cylinder.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A pneumatic straw-stacker, comprising the cylinder-shaft of a threshing-machine, a fan or fans on said shaft independent of the thresher-blades, a chamber in the rear end in the body of said threshing-machine, an air conduit or conduits leading from said fan or fans to said chamber, and a stacker-tube leading from said chamber, substantially as and for the purpose specified.

2. In a pneumatic straw-stacker, the cylinder-shaft of a threshing-machine, a blower or blowers on said shaft, a conduit leading from above the cylinder of said threshing-machine into said blower or blowers, a chamber in the rear part of said threshing-machine and a conduit or conduits leading from said blower or blowers to said chamber, in combination with a swinging stacker-tube leading from said chamber, substantially as and for the purpose specified.

JOHN J. GREEN.

In presence of—
WM. A. SNOW,
JOHN P. FINKEL.