

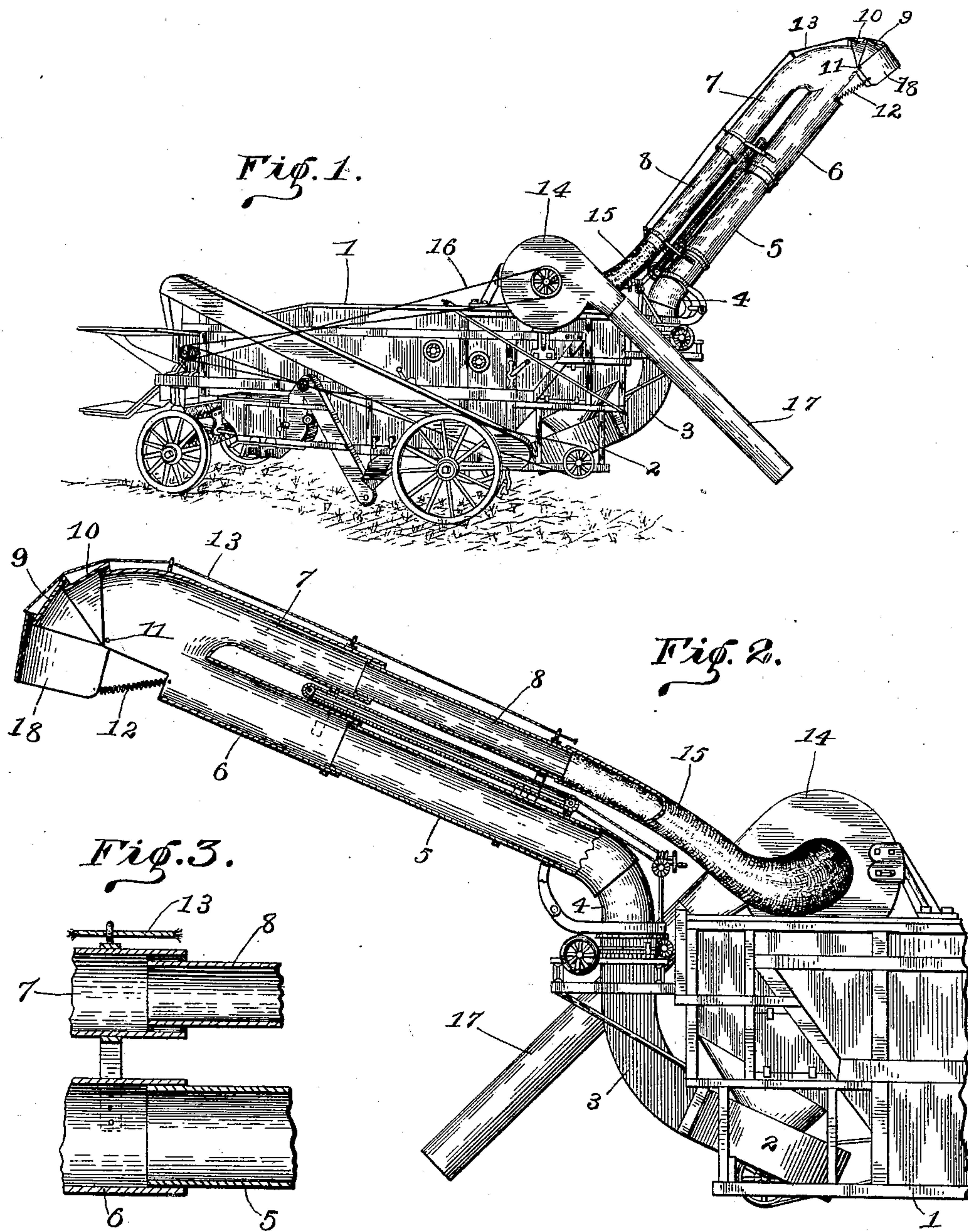
No. 633,383.

Patented Sept. 19, 1899.

G. W. KRAMER.
PNEUMATIC STRAW STACKER.

(Application filed Feb. 27, 1899.)

(No Model.)



WITNESSES:

C. S. Frye
J. A. Walsh

INVENTOR

George W. Kramer,

BY

Chester Bradford,
ATTORNEY.

UNITED STATES PATENT OFFICE.

GEORGE W. KRAMER, OF PEORIA, ILLINOIS, ASSIGNOR TO THE INDIANA MANUFACTURING COMPANY, OF INDIANAPOLIS, INDIANA.

PNEUMATIC STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 633,383, dated September 19, 1899.

Application filed February 27, 1899. Serial No. 707,046. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. KRAMER, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Pneumatic Straw-Stackers, of which the following is a specification.

One object of my present invention is to provide a means by which the dust and chaff may be separated from the straw in the operation of a pneumatic stacker.

A further object is to take off a part of the pressure from the straw at or just before the point of delivery, so that it will be thrown out onto the straw-stack with less force when this is desired.

Said invention consists in the use of a suction-fan connected to the trunk or chute of the pneumatic straw-stacker at a suitable point at or near its outer end and provided with a discharge orifice or conduit by which the dust and chaff may be delivered at some other point, as may be desired.

A machine embodying my said invention will be first fully described, and the novel features thereof then pointed out in the claim.

Referring to the accompanying drawings, which are made a part hereof and on which similar numerals of reference indicate similar parts, Figure 1 is a perspective view of a threshing-machine having a pneumatic straw-stacker provided with my present invention; Fig. 2, a view, partly in side elevation and partly in central section, of a pneumatic straw-stacker and the attachment thereto embodying my present invention, together with a fragment of the separator upon which the same is mounted; and Fig. 3, a detail sectional view, on an enlarged scale, similar to a portion of Fig. 2.

The threshing-machine or separator 1 and the pneumatic straw-stacker, including the fan-housing 2 and the fan therein, the conduit 3, leading from said fan-housing, the neck 4, and the telescopic sections of the trunk or chute 5 and 6, together with the means for operating the same, are or may be, generally speaking, similar to the corresponding portions of a machine of an ordinary and well-

known form and will not, therefore, be further described herein, except incidentally in describing the invention.

Connected to the portions 5 and 6 are the suction-tubes 7 and 8, which are correspondingly telescopic, as shown. The hood to the pneumatic straw-stacker, instead of being attached wholly to the section 6, as is usual, is widened out and comprehends and covers the ends of both the sections 6 and 7. Said hood may be of any ordinary or desired construction. It is shown as composed of the pivoted sections 18, 9, and 10, united by a pivot 11 and normally held downwardly by a spring 12 and adapted to be raised upwardly by a cord or rope 13. A fan 14 is mounted at some suitable place on the separator 1, and the eye thereof is connected to the lower end of the telescopic part 8 by a flexible tube 15. The fan-housing 14 contains an ordinary suction-fan, as will be readily understood, and this is driven by a belt 16 from some suitable point on the machine. The fan-housing 14 preferably has a delivery-tube 17, which generally leads down to the bottom of the straw-stack, where the dust and chaff, separated from the straw by means of my invention, are deposited in a pile by themselves.

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

The combination, with a pneumatic straw-stacker, of a supplemental exhaust-fan, and a tube leading from the eye of said fan to and connected with the trunk or chute of the straw-stacker, whereby a portion of the air driven through said trunk or chute may together with the dust and chaff intermingled therewith be drawn back and discharged at a separate point, while the straw is thrown out onto the stack in the ordinary manner, substantially as set forth.

In witness whereof I have hereunto set my hand and seal, at Peoria, Illinois, this 23d day of February, A. D. 1899.

GEORGE W. KRAMER. [L. S.]

Witnesses:

B. E. GAYMAN,
J. K. NICKERSON.