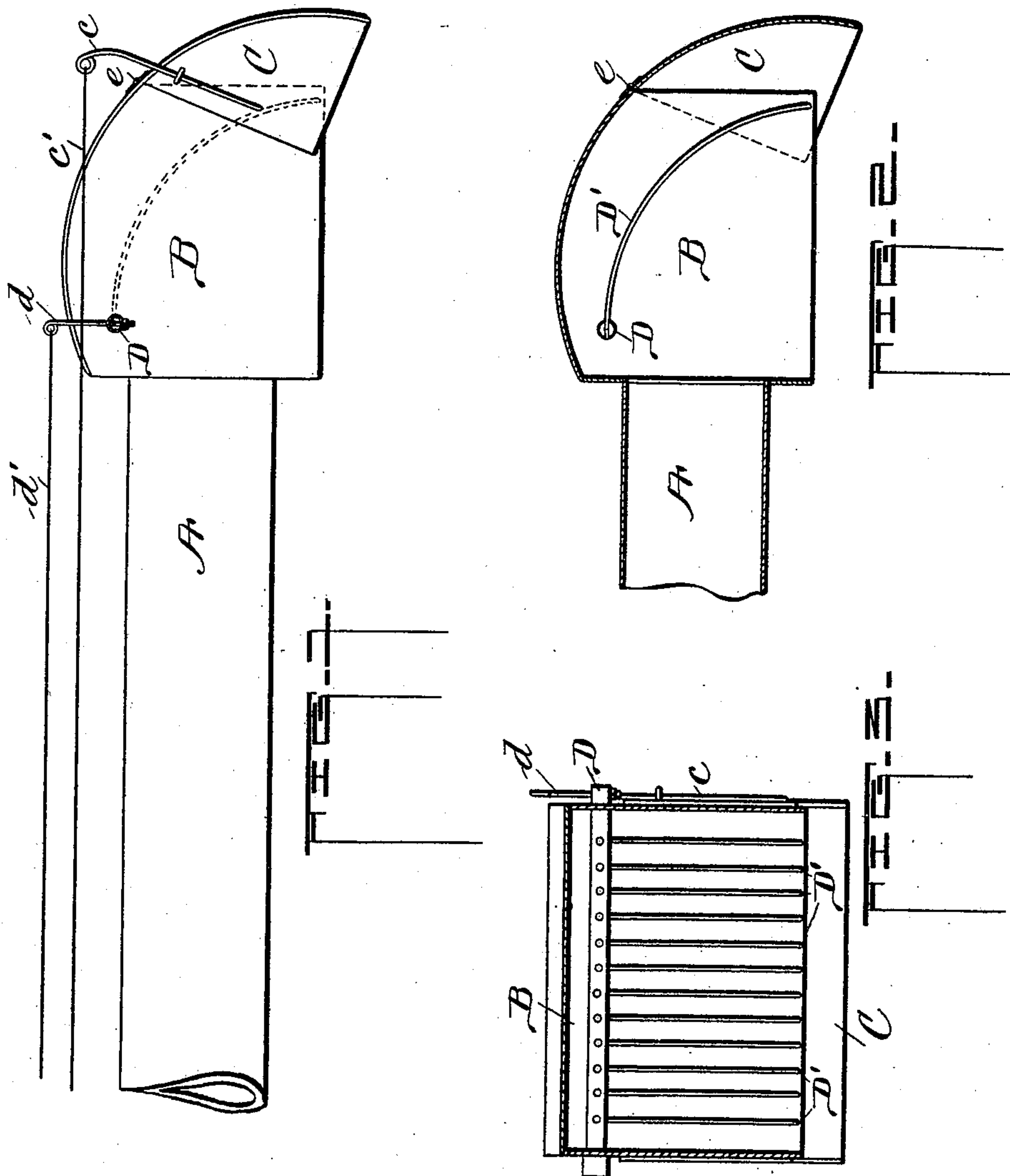


(No Model.)

F. W. ELTZROTH.
STACKER.

No. 602,063.

Patented Apr. 12, 1898.



Witnesses:-

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UNITED STATES PATENT OFFICE.

FOREST W. ELTZROTH, OF LAFAYETTE, ILLINOIS, ASSIGNOR OF ONE-HALF
TO FRANK E. COLE, OF PEORIA, ILLINOIS.

STACKER.

SPECIFICATION forming part of Letters Patent No. 602,063, dated April 12, 1898.

Application filed September 27, 1897. Serial No. 653,195. (No model.)

To all whom it may concern:

Be it known that I, FOREST W. ELTZROTH, a citizen of the United States, residing at Lafayette, in the county of Stark and State of Illinois, have invented certain new and useful Improvements in Stackers; 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.

My invention relates to certain new and useful improvements in pneumatic stackers, by means of which a simple device is provided that is very effective for the purpose designed.

More particularly my invention relates to improvements in wind or pneumatic stackers in which there is provided a hood at the forward end of the straw-chute, suitably constructed and arranged, adapted to so receive the straw and chaff from the chute as to separate the wind therefrom and causing the bulk of the straw to be stacked at a point below the chute and preventing the loose distribution of the straw caused by the wind and straw leaving the hood together.

My invention consists, essentially, of a hood having a stationary part fixed to the forward end of the chute, of a hinged section to the hood acting as a deflector for the chaff received from the straw, adapted to be opened and closed when the chute is raised or lowered, of fingers arranged within the hood acting as a stop for the straw as it is blown from the chute into the hood and so arranged as to cause the wind to pass around and between the fingers, and suitable mechanism for actuating the fingers and hinged section from a suitable point on top of the machine.

That my invention may be more fully understood reference is had to the accompanying drawings, in which—

Figure 1 is an elevation of a section of the outer end of the chute with my improvements attached thereto. Fig. 2 is a longitudinal section through the same, and Fig. 3 is a vertical section.

In the drawings, A illustrates a section of the outer end of a chute suitably connected with a wind-stacker.

B is a hood, made of suitable material, hav-

ing a suitable opening for attaching the same to the chute.

D is a rod or pipe section carried through the forward end of the hood. 55

D' are fingers curved to conform to the construction of the hood and are fastened at intervals through the rod. These fingers D' are arranged so as to act as a stop for the straw received from the chute, adapting the same to be stacked at a point below the lateral movement of the hood, at the same time causing the air and chaff received from the chute to be carried between and around the fingers D', thus separating the wind and the chaff from the straw, preventing an uneven distributing of the straw. The rod D is suitably mounted, adapting a raising and lowering of the fingers D', as the chute is raised or lowered through and by means of the hooked rod *d*, secured to the outer end of the rod D, and the cord *d'*, leading from the outer end of rod *d* to a point within reach of the operator. 60 65 70

C is a section of the hood B, or a continuation thereof, and is hinged at *e* thereon, this section C acting as a deflector for the chaff blown from the straw and causing the same to be uniformly dropped from the hood. This section, by means of the hinge, is adapted to be open or closed, as the case may be, when the chute is raised or lowered. 75 80

c is a hooked rod suitably secured to the section C, and *c'* is a rope extending from the rod to a point within easy reach of the operator, adapting the same to be opened or closed, as desired. 85

The operation of the device is very simple. The straw and chaff being carried through the chute by means of the wind from the fan of the machine are emptied into the hood B. Coming with the force that they usually do, the straw and chaff are caused to be blown from the hood together and unevenly distributed on the ground unless some provision is made to stop the same before they leave the hood. By providing the fingers D' at intervals across the inner and outer end of the hood the straw entering the hood is stopped and is allowed to drop in a stack below the hood. The air and chaff passing around and between the fingers is carried against the deflector C and drops gradually to the ground. By means of 90 95 100

the mechanism shown, consisting of the hooked rods *d* and *c* and the ropes *d'* and *c'*, the fingers and deflector can be raised or lowered as is needed when the chute is up or
5 down.

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

1. In a wind-stacker, provided with a suitable chute, a hood arranged at its outer end, 10 having suitable fingers carried therein acting as a stop for the straw, a suitable deflector for the chaff hinged to the hood and suitable mechanism for actuating the said fingers and
15 deflector as the chute is raised or lowered, all substantially as and for the purpose described.

2. In a wind-stacker, the combination with the hood B, suitably secured to the chute of the stacker, of suitable fingers D', the rod D, at the inner and forward end of the hood B; 20 the deflector C, hinged at *e* to the hood and rods *d* and *e* and suitable mechanism for actuating the said rods causing a raising and lowering of the said fingers and deflector when the chute is up or down, all substantially as 25 and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

FOREST W. ELTZROTH.

Witnesses:

ARTHUR N. GRANT,
HARRY A. SNYDER.