

No. 714,978.

Patented Dec. 2, 1902.

J. VOGT.
GRAIN CONVEYER.

(Application filed Sept. 2, 1902.)

(No Model.)

Fig. 1.

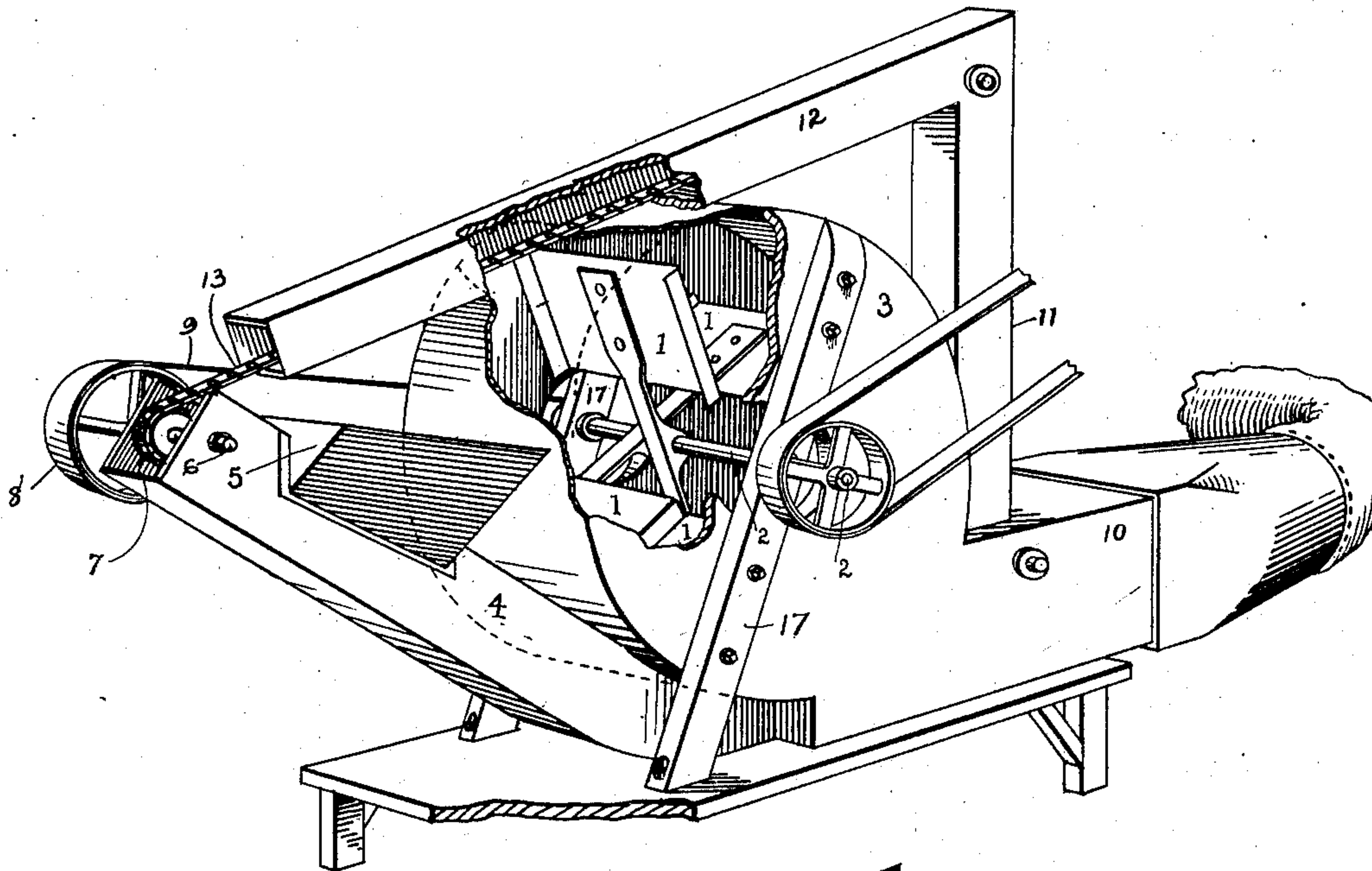
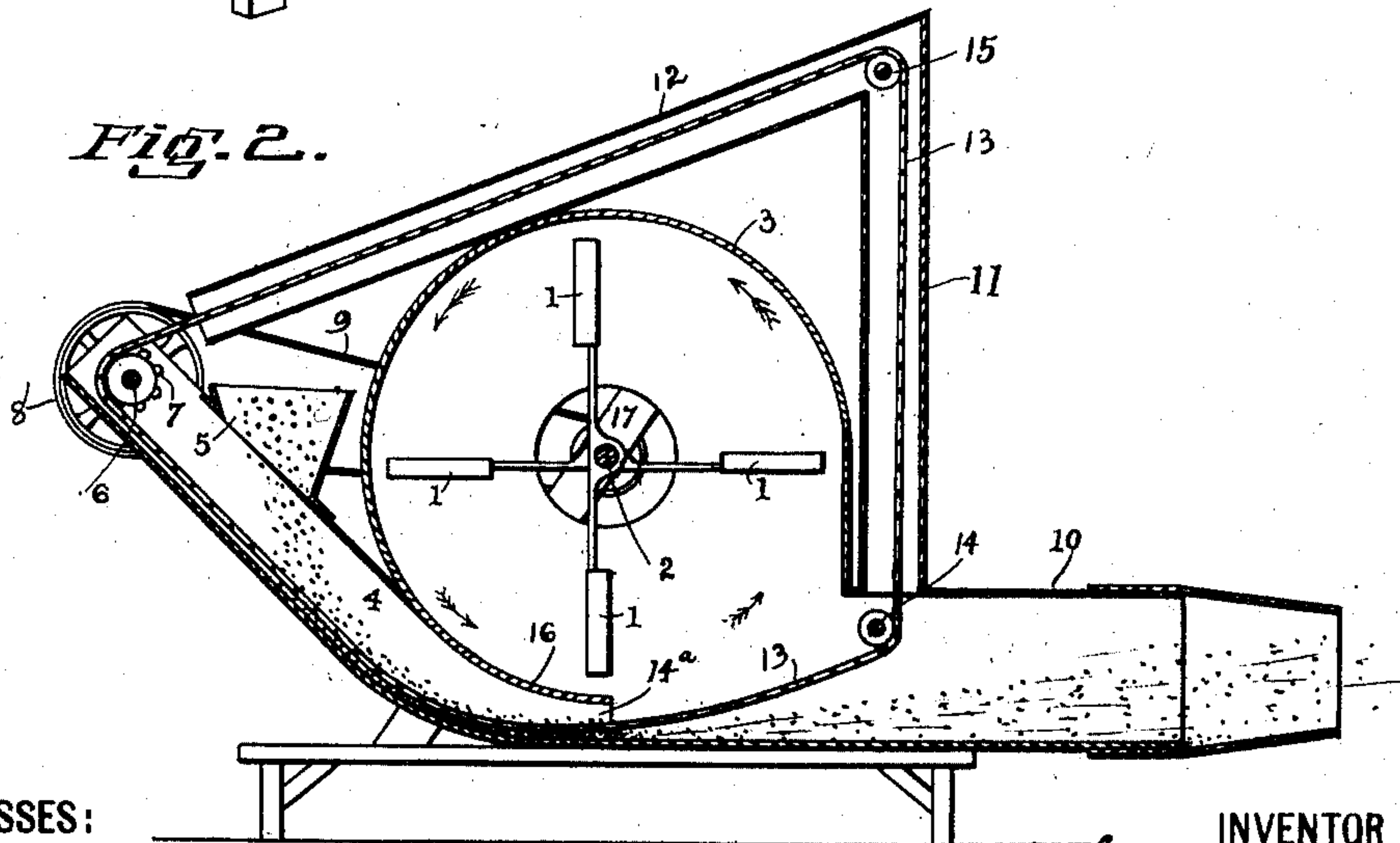


Fig. 2.



WITNESSES:

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JOHN VOGT, OF WINESBURG, OHIO.

GRAIN-CONVEYER.

SPECIFICATION forming part of Letters Patent No. 714,978, dated December 2, 1902.

Application filed September 2, 1902. Serial No. 121,796. (No model.)

To all whom it may concern:

Be it known that I, JOHN VOGT, a citizen of the United States, residing at Winesburg, in the county of Holmes and State of Ohio, have
5 invented certain new and useful Improvements in Grain-Conveyers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being
10 of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a perspective view showing a part of the fan-casing broken away. Fig. 2 is a vertical section.

15 The present invention has relation to grain-conveyers especially designed to convey grain from the spout of a threshing-machine to any place of deposit; and it consists in the novel construction hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in both figures of the drawings.

In the accompanying drawings, 1 represents
25 the fan, which is mounted upon the shaft 2, said fan being inclosed in a proper casing 3. From the back of the fan proper leads a trough 4, which trough is inclined upward and its outer upper end provided with a hopper 5, and into which hopper leads a spout of
30 any desired kind, said spout being connected with the grain-delivery spout of the threshing-machine. This feature is not shown, as it forms no particular part of the present invention; but of course some means is necessary to convey the grain from the threshing-machine delivering-spout to the trough 4.

40 At the upper outer end of the trough 4 is journaled the shaft 6, upon which shaft is mounted the sprocket-wheel 7 and the power-wheel 8, said power-wheel being driven by a belt 9, which belt is connected to any source of power.

At the forward side of the fan-chamber
45 proper is located the grain-conveying pipe 10, to which grain-conveying pipe may be attached a flexible grain-conveying pipe of any desired length.

50 Directly in front of the fan proper and at the upper side of the grain-conveying spout 10 is located the upright spout or tube 11, at the top or upper end of which is connected

the pipe 12, said pipes being for the purpose of inclosing the grain-conveying chain 13, which grain-conveying chain is given motion
55 by means of the sprocket-wheel 7 and is extended through the trough 14^a and under the fan, thence upward, passing the idlers 14 and 15, said idlers being for the purpose of properly guiding and holding the conveying-chain
60 13 in proper position for the purpose herein-after described.

In use the grain as it passes into the trough 4 falls upon the grain-conveying chain 13, and as the grain-conveying chain moves along
65 the trough it will assist in conveying the grain to a point forward of the fan, from whence the grain is conveyed by the blast of the fan.

In my improved grain-conveyer it will be
70 understood that I am enabled to feed the grain designed to be conveyed back of the fan and at a point where it is not effected by its blast. The movement of the grain to a point where it is acted upon by the blast of the fan
75 is brought about by the inclination of the trough 4 and the movement of the chain 13, and by the movement of the chain 13 there is no danger of the clogging of the grain, and the same is conveyed with regularity to a
80 point where it is acted upon by the fan-blast. For the purpose of preventing any back blast of the fan the partition 16 is provided, said partition being located between the trough 4 and the fan-chamber proper.
85

For the purpose of providing suitable supports for the fan-shaft 2 the uprights 17 are provided, which are located upon opposite sides of the fan-casing, and they may be of the form shown or of any other desired form.
90

The grain-conveying chain 13 is so arranged that as the grain passes under the fan it will fall below the chain, inasmuch as said chain is inclined upward in front of the fan, this feature being illustrated in Fig. 2 of the drawings.
95

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

1. The combination of a fan and a chamber
100 therefor, a grain-conveying trough extended rearward from the fan-chamber and fan and provided with an open upper end, a grain-conveying tube extended from the fan-cham-

ber, a grain-conveying chain surrounding the fan-chamber and fan, and means for imparting movement to the chain, substantially as and for the purpose specified.

- 5 2. The combination of a fan-chamber and fan located therein, a grain-conveying trough located at the rear of the fan and inclined upward from the fan-chamber, a partition located between the fan-chamber and the grain-
10 conveying trough, a grain-conveying pipe leading from the fan-chamber and in front of the fan, and a conveying-chain extended

backward and forward of the fan, and means for imparting movement to the conveying-chain, substantially as and for the purpose 15 specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN VOGT.

Witnesses:

CHARLES F. SOMMER,
E. L. KOCHENDERFER.