

No. 649,898.

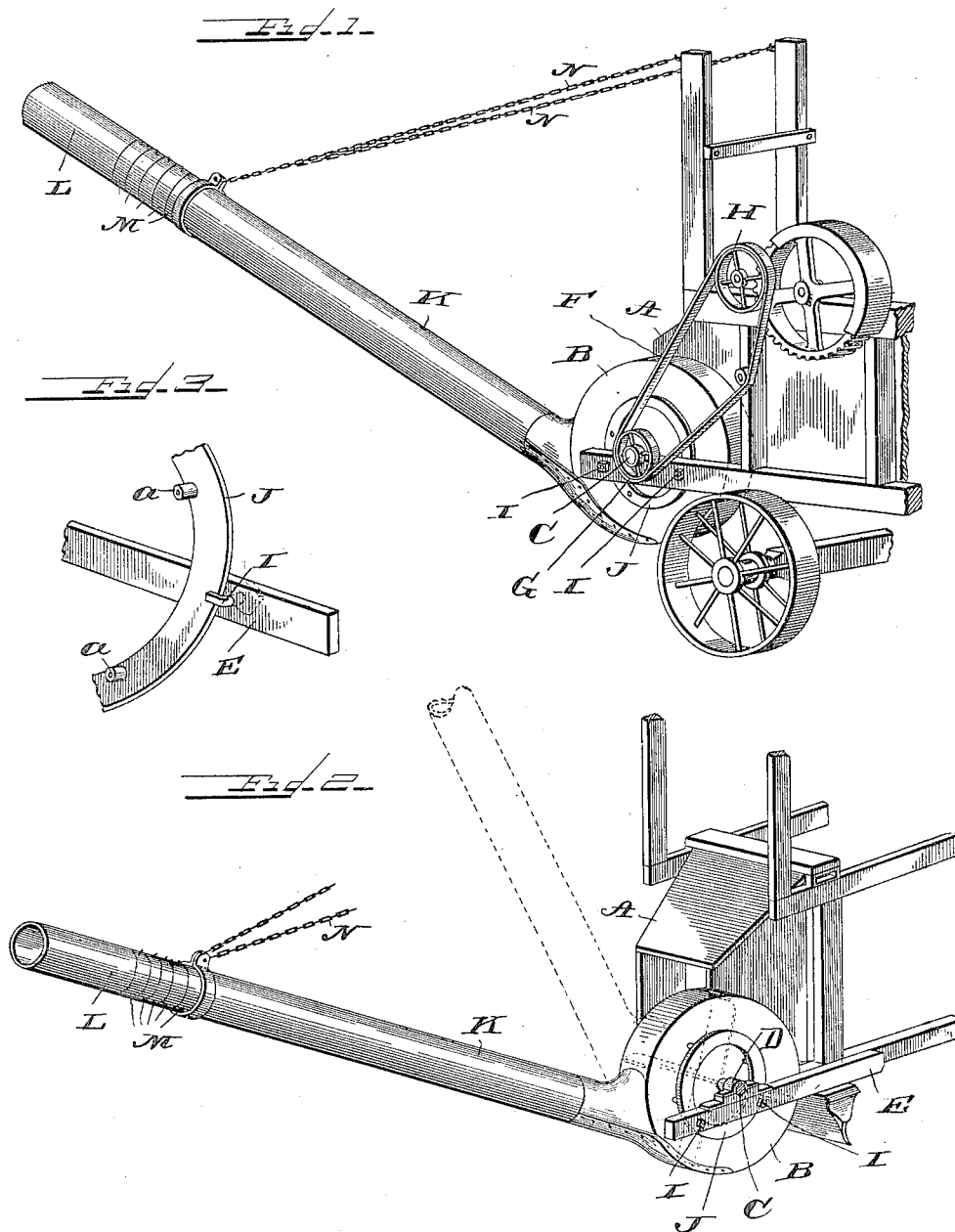
Patented May 22, 1900.

I. G. BERRY.

ATTACHMENT FOR FODDER SHREDDING MACHINES, &c.

(Application filed Feb. 15, 1900.)

(No Model.)



WITNESSES.

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR FODDER-SHREDDING MACHINES, &c.

SPECIFICATION forming part of Letters Patent No. 649,898, dated May 22, 1900.

Application filed February 15, 1900. Serial No. 5,308. (No model.)

To all whom it may concern:

Be it known that I, IRA G. BERRY, a citizen of the United States of America, residing at Sterling, in the county of Whiteside, in the State of Illinois, have invented certain new and useful Improvements in Discharge Attachments for Fodder-Shredders and the Like, of which the following is a description, reference being had to the accompanying drawings, forming a part of this specification.

My improved discharge attachment, while similar in some respects to pneumatic straw-stackers of familiar type, has been designed more particularly for use in connection with machines for shredding fodder, and its novelty consists in certain constructions, arrangements, and combinations of parts, which will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of the rear end of a fodder-shredding machine equipped with my discharge attachment; Fig. 2, an enlarged perspective detail of the discharge attachment and discharge-chute of the machine, and Fig. 3 a detail view of the clamping devices for holding the fan-casing in adjusted position.

The same letters of reference are used to indicate identical parts in the several views.

A represents the discharge-chute at the rear end of a fodder-shredding machine, to which the shredded fodder is delivered from the cutting devices, and which in turn is adapted to deliver the shredded fodder into the central eye or opening of a vertical fan-casing B, supported upon the framework of the machine adjacent the mouth of the chute A. The near side of this casing B in Figs. 2 and 3 is entirely closed, except for a small central hole through which passes the fan-shaft C, which shaft has its support and bearing in a box D, secured to a beam E, projecting rearward from the main frame of the machine. Secured upon the shaft within the casing B is a rotary fan, (shown in dotted lines,) the shaft and fan being driven by a bolt F, passing around a small pulley G, secured upon the shaft, and around a driving-pulley H of the machine, Fig. 1.

The fan-casing B is partially supported upon

the shaft C and capable of being turned upon the same to adjust it to different positions, and when adjusted to the desired position is secured therein by means of bolts I, passed through the beam E and having their inner ends bent at right angles to engage a ring J, secured to the side of the fan-casing B, Figs. 1 and 3. The ring J is separated a slight distance from the side of the casing B by interposed spacing-blocks a, so as to permit the ready engagement of the bent inner ends of the bolts I with the ring. The outer ends of the bolts I are threaded and have nuts screwed upon them, by tightening up which the ring J may be gripped to the inner side of the beam E and the fan-casing thereby firmly supported and held in adjusted position. Upon loosening the bolts the casing may be adjusted about the shaft C to elevate or depress its discharge spout or pipe K, and be resecured in adjusted position by tightening up the nuts again.

The elevation of the discharge-spout K or its vertical adjustment is effected solely by the axial adjustment of the fan-casing B in the manner described, while the deflection of the discharge laterally in one direction or the other is regulated by means of a laterally-adjustable discharge-nozzle L, connected to the spout K by a flexible joint M, consisting of a series of short telescopic sections of pipe loosely connected together by rivets at their upper and lower sides, so as to permit the spout L to be freely turned to the right or left to direct the discharge of the shredded fodder as desired.

To aid in supporting the weight of the spout K and parts carried by it and thereby relieve the strain upon it and the fan-casing B, I connect chains N to the spout, as shown, the upper forward ends of said chains being connected to the upper ends of vertical arms or posts O of the framework of the machine, Fig. 1.

As will be apparent from the foregoing description, I have provided a simple and efficient pneumatic discharge attachment for fodder-shredding machines and the like, in which the elevation and depression of the discharge may be easily regulated as desired by adjustment of the vertically-arranged fan-

casing in the manner described, while the lateral discharge may be regulated by means of the nozzle flexibly connected with the discharge-spout of the fan-casing.

5 I am aware that pneumatic discharge attachments consisting of a casing containing a rotary fan and provided with a discharge-spout are in common use with threshing-machines, and perhaps to some extent also with
10 fodder-shredding machines, and I am also aware that it is not new to provide the discharge-spouts of such apparatus with flexible joints composed of short telescopic sections of pipe.

15 Having thus fully described my invention, I claim—

1. In a pneumatic discharge attachment for fodder-shredding machines and the like, the combination, with the main frame and
20 discharge-chute of such machine, of a vertically-arranged fan-casing supported upon said frame and provided in one of its sides with a central eye or opening adjacent the mouth of the discharge-chute, a discharge-
25 spout projecting from said casing, a rotary fan within said casing, and means for adjusting the fan-casing around the fan-shaft and securing it in adjusted position, to elevate and depress the discharge-spout, sub-
30 stantially as described.

2. In a pneumatic discharge attachment for fodder-shredding machines and the like, the combination, with the main frame of the

machine having the discharge-chute A and projecting beam E, the vertically-arranged
35 fan-casing B having the discharge-spout K, the fan-shaft C journaled in the box D upon the beam E and extending through a central opening in the side of the casing B and forming an axial support therefor, the fan secured
40 upon the shaft C within the casing B, and means for readily securing the casing B to the beam E in its different adjusted position, substantially as described.

3. In a pneumatic discharge attachment
45 for fodder-shredding machines and the like, the combination, with the main frame of the machine having the discharge-chute A and projecting beam E, the vertically-arranged
50 fan-casing B having the discharge-spout K, and clamping-ring J, the fan-shaft C journaled in the box D on the beam E and extending through a central hole in the side of the casing B and forming an axial support
55 therefor, the fan secured upon said shaft within the casing, and the bolts I passed through the beam E and adapted to have their inner ends engage the ring J and clamp the same to the beam E when the nuts upon
60 their outer ends are tightened, substantially as described.

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Witnesses:

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