

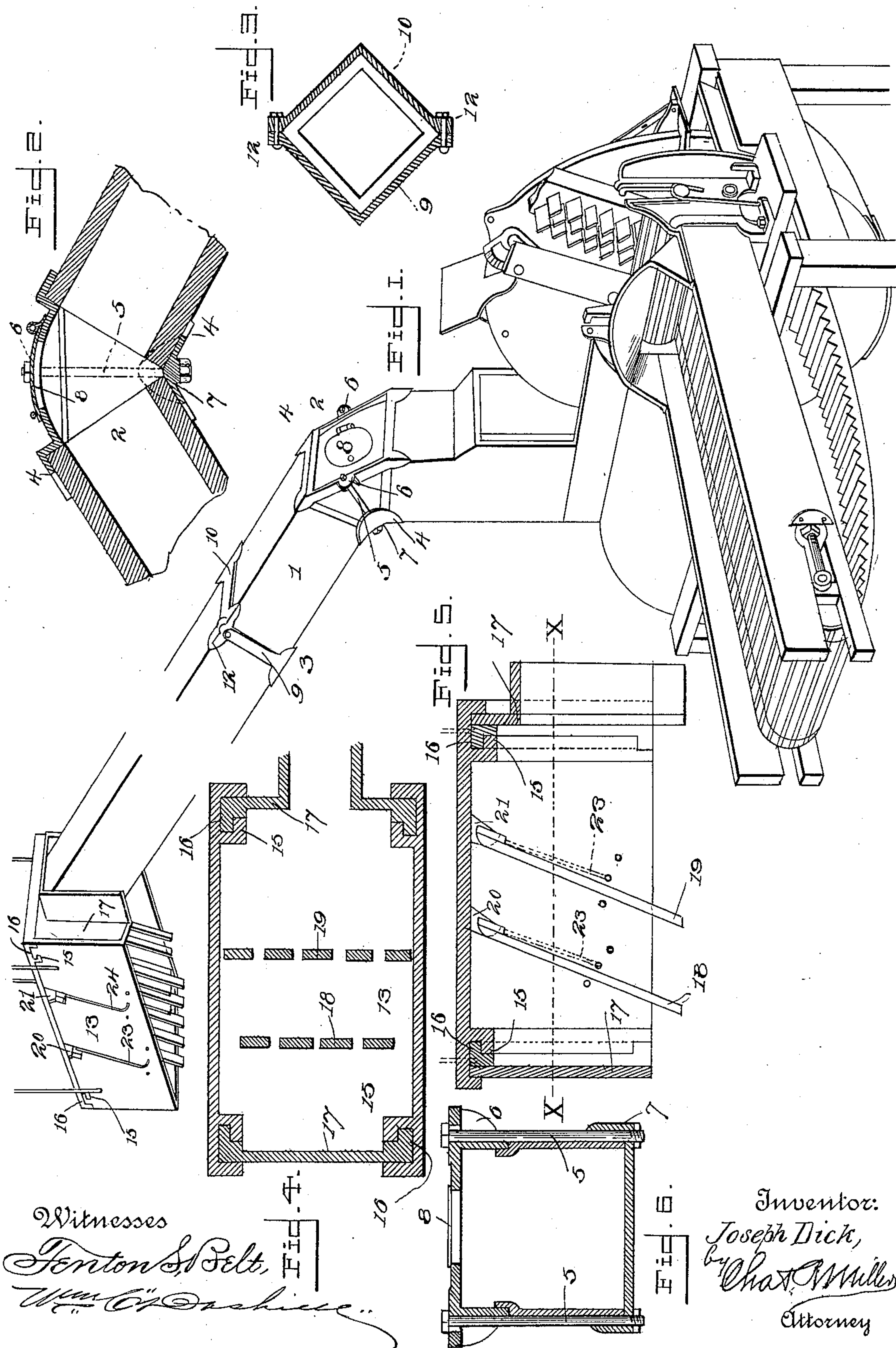
No. 614,295.

Patented Nov. 15, 1898.

J. DICK.  
PNEUMATIC CONVEYER.

(Application filed Dec. 3, 1897.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOSEPH DICK, OF CANTON, OHIO.

## PNEUMATIC CONVEYER.

SPECIFICATION forming part of Letters Patent No. 614,295, dated November 15, 1898.

Application filed December 3, 1897. Serial No. 660,587. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH DICK, a citizen of the United States, and a resident of the city of Canton, county of Stark, State of Ohio,

5 have invented a new and useful Improvement in Pneumatic Conveyers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

10 My invention relates to pneumatic conveyers adapted for use in connection with fodder cutters or shredders such as are described and claimed in an application filed by me April 8, 1897, Serial No. 631,235.

15 The object of the invention is to provide an improved construction of such conveyers by means of which the cut or shredded fodder may be carried away from the cutting or shredding machine and deposited at any point  
20 desired.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is  
25 a perspective view of a fodder cutting or shredding machine constructed in accordance with the invention disclosed in my aforesaid application and showing my present improvements applied thereto. Fig. 2 is a sectional  
30 view of the angle-joint of the conveyer. Fig. 3 is a cross-sectional view of the conveyer-joint. Fig. 4 is a cross-sectional view of the hood or deflector of the conveyer. Fig. 5 is a longitudinal sectional view of the hood or  
35 deflector of the conveyer, and Fig. 6 is a sectional view of the conveyer angle-joint.

In the said drawings the reference-numeral 1 designates the conveyer, adapted to be removably connected with the fan-casing of the  
40 cutting or shredding machine. The said conveyer may be constructed of wood or other suitable material and is provided with metallic angle-joints 2 and metallic joints 3, so constructed that it may be adjusted in various  
45 positions. The angle-joints 2 consist of metallic plates of the desired form having flanges 4 cast thereon for the purpose of engaging with the wooden sides of the conveyer and hold the portions of the conveyer together and to the joints by means of bolts 5  
50 passing through lugs 6 and 7 upon the metallic upper and lower plates of the angle-joints.

Upon the upper plate of the angle-joint there is provided a door 8 for the purpose of removing anything which may have become  
55 lodged in the angle of the conveyer-pipe.

The plain conveyer-joint 3 consists of two V-shaped pieces of flanged metal 9 and 10, having flanges 12 thereon, through which are  
60 passed bolts and by means of which the parts of the joint and the sides of the conveyer are locked securely to each other. At the outer end of the conveyer 1 there is provided a deflecting-hood 13, which may be arranged  
65 to be either supported from above or attached to or supported by the conveyer.

I have shown the hood consisting of a bottomless box, the sides and top of which are arranged to be locked to each other by means  
70 of corresponding L-shaped lugs 15 and slots 16 on the under side of the top portion of the hood and in the corners or edges of the depending sides. The ends are first held in an upright position, then the side pieces are slid  
75 into position, and the lugs thereon engage with the grooves in the end pieces, which terminate in lugs which prevent the side pieces falling through. The grooves in the top are  
80 then slid into engagement with the lugs on the top and the end pieces 17, thereby securely locking the sides, ends, and top together without screws or nails. I have also shown  
85 suspended from the top of the hood a series of deflecting blades or slats 18 and 19, so arranged that the blades of one shall be opposite the openings in the other. These slatted  
85 frames are mounted in slots 20 and 21 in the sides of the hood and have attached to their outer edges adjusting-rods 23 and 24, adapted  
90 to engage with holes in the sides of the hood, by means of which the deflecting slats or blades may be adjusted at any desired angle. This construction of the conveyer and deflector enables them to be readily taken apart  
95 for shipment and can be readily put up without the employment of skilled labor.

The fly-wheel of the cutting or shredding machine is provided with fan-blades, by which the cut or shredded fodder is blown through the conveyer.

Having thus fully described my invention, what I claim is—

1. The combination with a pneumatic conveyer, of metallic angle-joints consisting of

metallic plates having flanges, 4 4, cast there-  
on to engage the sections of the conveyer,  
lugs, 6 7, formed on the upper and lower  
plates of the angle-joint, bolts, 5, passing  
5 through said lugs, and a door, 8, in the up-  
per plate of the angle-joint, substantially as  
shown and described.

2. A deflecting-hood for pneumatic convey-  
ers, consisting of a bottomless box, and in-  
10 dependently-adjustable deflecting-slats ar-  
ranged in said box, substantially as shown  
and described.

3. A deflecting-hood for pneumatic convey-  
ers provided with sides, top and ends having  
interlocking joints and independent adjust- 15  
able deflecting-slats, substantially as shown  
and described.

In testimony whereof I have hereunto set  
my hand this 29th day of November, A. D.  
1897.

JOSEPH DICK.

Witnesses:

CHAS. R. MILLER,  
CHAS. M. BALL.