

No. 719,308.

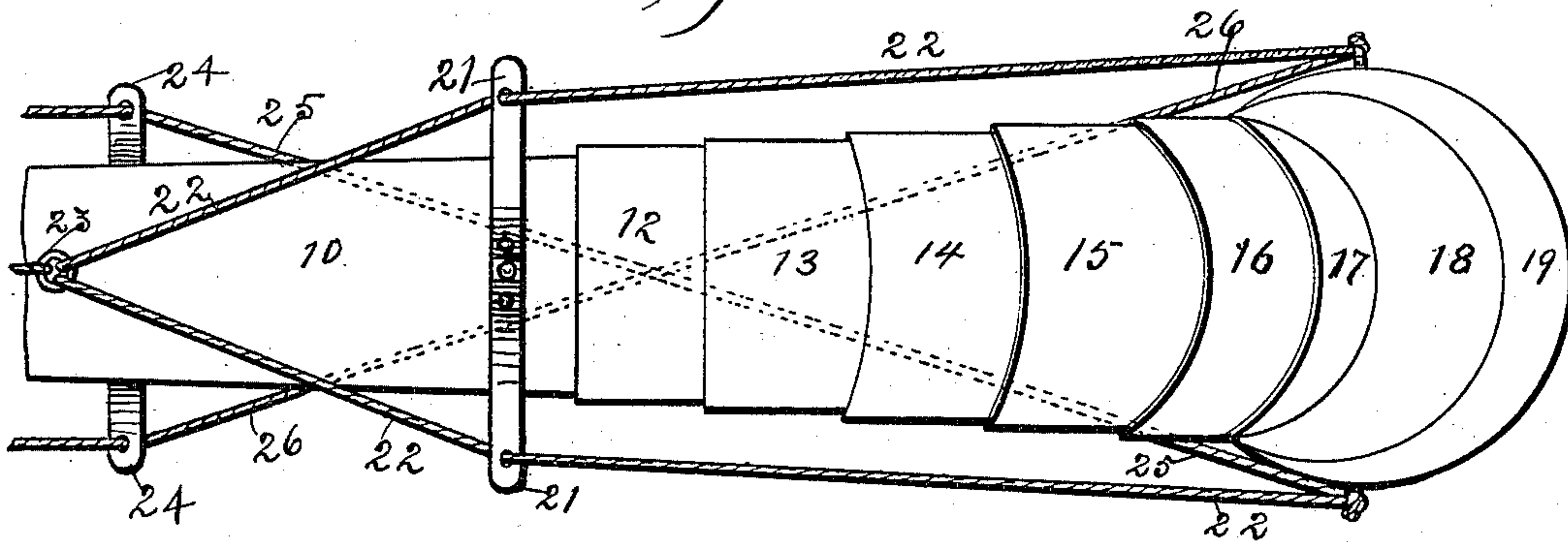
PATENTED JAN. 27, 1903.

C. F. DAMMEIER.  
PNEUMATIC STRAW STACKER.

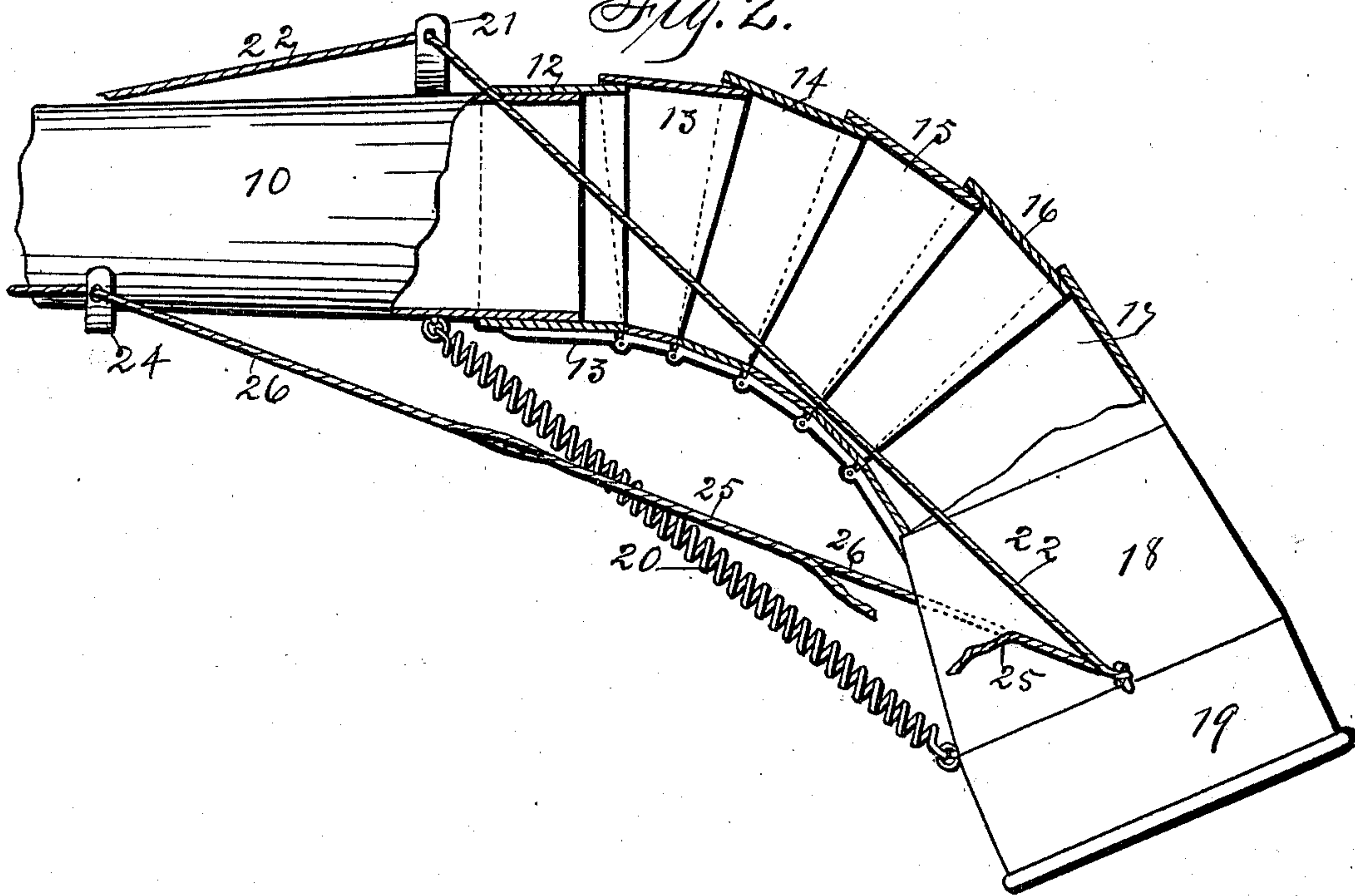
APPLICATION FILED JUNE 6, 1902.

NO MODEL.

*Fig. 1*



*Fig. 2.*



Witnesses:  
L. H. Orwig.  
H. G. Lule.

Inventor: Charles F. Dammeier,  
By Thomas G. Orwig, Attorney.



# UNITED STATES PATENT OFFICE.

CHARLES F. DAMMEIER, OF METZ, IOWA.

## PNEUMATIC STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 719,308, dated January 27, 1903.

Application filed June 6, 1902. Serial No. 110,439. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES F. DAMMEIER, a citizen of the United States, residing at Metz, in the county of Jasper and State of Iowa, have invented a new and useful Improved Pneumatic Straw-Stacker, of which the following is a specification.

My object is to facilitate the delivery and distribution of straw on a stack by means of an adjustable end portion of the tube of a pneumatic stacker connected with a threshing and separator.

My invention consists in forming, arranging, and combining hinged sections with the top portion of the rigid tube to produce an adjustable straw-distributor that can be extended straight and curved downward or laterally in opposite directions at the top of a pneumatic tube, as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a top view showing my jointed end portion of the tube extended straight and in alinement with the rigid portion of the tube with ropes attached for adjusting the jointed section relative to the rigid straight portion as required for distributing straw on a stack. Fig. 2 is a side view showing the hinged parts in section and extended downward relative to the straight and rigid top portion of the tube.

The numeral 10 designates the top end portion of a rigid straight tube made of sheet metal. It may vary in size, as desired. A rigid section 12 is fitted on the end of the tube 10 in such a manner as to produce a swivel connection that will allow it to rotate on the end of the tube 10 as required to change the direction of my hinged extension. A plurality of tube-sections 14, 15, 16, 17, and 18 are fixed to the jointed metal strap 13 at their narrow under sides in such a manner that they will be telescopically connected with each other and adapted to be brought into alinement with the straight pipe 10 or inclined downward, as shown in Fig. 2. The jointed strap is composed of rigid pieces hinged together at their ends, and one tube-section is hinged to each piece in the jointed strap. A tapering extension 18 is rigidly fixed at its inner end to the outer end of the jointed metal strap.

To normally retain the jointed end portion extending downward, as shown in Fig. 2, a coil-spring 20 is fixed to the rigid tube 10 and the inner end of the part 19.

To adjust the jointed end portion, composed of a plurality of sections telescopically connected, a rope-bearer 21 is fixed on top of the rigid fixed tube 10 and a rope 22 doubled and its ends passed through the apertures in the ends of the bearer and fixed to the sides of the end section 19 of my jointed end portion and a rope 23 connected with the center of the rope 22 and extended along the tube 10 to a winch or other suitable device for adjustably fastening the rope, as required, to counteract the force of the spring 20 and to retain the hinged extensions at various angles relative to the rigid tube 10 and a straw-stack.

To incline the jointed and swiveled extension laterally relative to the rigid tube 10 and a straw-stack, a duplex rope-bearer 24 is fixed to the under side of the rigid pipe 10, and ropes 25 and 26 are extended through the end of the bearer and fastened to the opposite sides of the end piece 19 of the jointed section in such a manner that the ropes will be in crossed position as required to pull the swiveled end portion of the tubes to the right or left. The ends of the two ropes 25 and 26 thus applied extend down to the machine to be adjustably secured to the machine so they can be readily operated by a person on the ground or on the rear end of the machine.

Having thus described the purpose, construction, and operation of my invention, its practical operation and utility will be readily understood by persons familiar with the art to which it pertains, and

What I claim as new, and desire to secure by Letters Patent, is—

1. A straw-distributor for pneumatic straw-stackers comprising a jointed metal strap composed of a plurality of rigid pieces hinged together at their ends, tube-sections fixed to the rigid pieces of the hinged strap and their free edge portions telescopically connected, a tube-section adapted to be rotatably connected with the top end of the tube of a stacker fixed to one end of the jointed strap, a tapering and enlarged tube-section fixed to the other end of the jointed strap and a coil-spring fixed to

the end sections of the tubes at their under sides, to operate in the manner set forth for the purposes stated.

2. A straw-distributor for pneumatic straw-  
5 stackers comprising a jointed metal strap composed of a plurality of rigid pieces hinged together at their ends, tube-sections fixed to the rigid pieces of the hinged strap and their free  
10 edge portions telescopically connected, a tube-section adapted to be rotatably connected with the top end of the tube of a stacker fixed to one end of the jointed strap, a tapering and enlarged tube-section fixed to the other end  
15 of the jointed strap and a coil-spring fixed to the end sections of the tubes at their under

sides, bearers fixed to the top of the upper end of a straw-stacker tube, ropes extended through said bearers and fixed to the sides of the tapering end section of the adjustable distributor, bearers fixed to the under side of the  
20 straw-stacker tube and ropes passed through said bearers and extended in crossed position and fixed to the sides of the tapering section at the free end of the straw-distributor, arranged and combined to operate in the man-  
25 ner set forth for the purposes stated.

CHARLES F. DAMMEIER.

Witnesses:

L. S. HELPHREY,  
C. O. EDGE.