

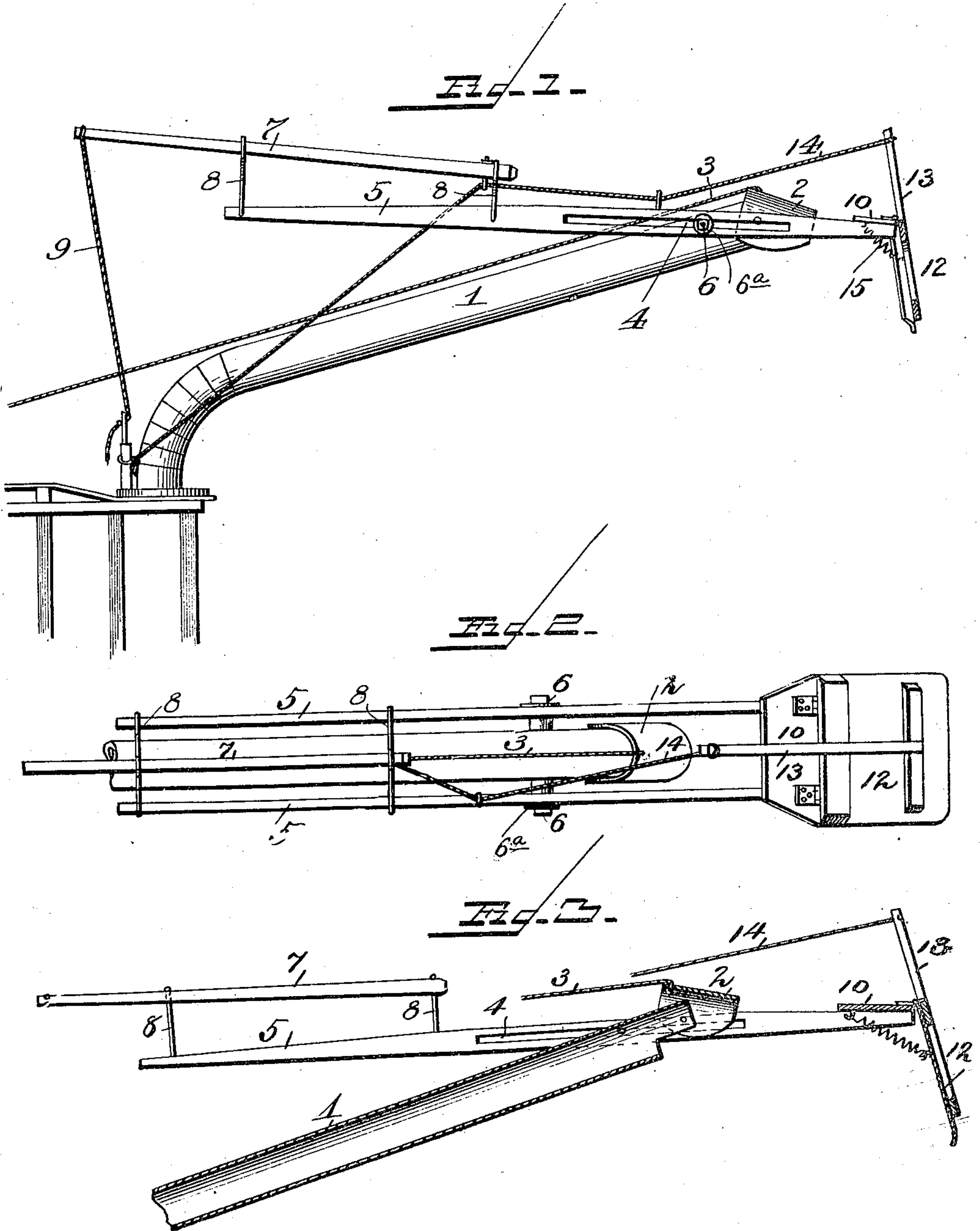
No. 617,939.

Patented Jan. 17, 1899.

F. ROBERTS.
PNEUMATIC STRAW STACKER.

(Application filed Oct. 7, 1898.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANK ROBERTS, OF BELLE PLAINE, IOWA.

PNEUMATIC STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 617,939, dated January 17, 1899.

Application filed October 7, 1898. Serial No. 692,946. (No model.)

To all whom it may concern:

Be it known that I, FRANK ROBERTS, a citizen of the United States, residing at Belle Plaine, in the county of Benton and State of Iowa, have invented new and useful Improvements in Pneumatic Straw-Stackers, of which the following is a specification.

My invention relates to pneumatic straw-stackers by which the straw from a threshing or other machine is stacked or piled by a current or blast of air. As is well known to those skilled in the art to which my invention pertains, it is very difficult to put a solid top on the stack or pile owing to the liability of the straw being blown over the back or rear side of the stack.

My invention is designed to obviate the above and other objections and provide an attachment for pneumatic straw-stackers which shall possess superior advantages with respect to efficiency in use.

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

In the accompanying drawings, Figure 1 is a side elevation of a pneumatic straw-stacker with my improvements applied thereto. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal sectional view.

In the said drawings the reference-numeral 1 designates the pneumatic tube of a straw-stacker of any ordinary or suitable construction and is connected with a threshing-machine, as usual. At the rear end of this tube is a pivoted hood 2, provided with a rope 3, by which it may be controlled or adjusted. Near the rear end of said tube are two diametrically opposite pivots or studs 6, which pass through slots 4 in adjustable arms 5. These studs are provided with nuts or washers 6^a.

The numeral 7 designates a bar secured to said arms by means of rods 8 and is provided with a rope 9. The rear ends of said slotted arms are connected together by a plate 10, to which is hinged a deflector or plate 12, preferably made of sheet metal and provided with an arm 13, to which is secured a rope 14, by which the inclination of the deflector or plate is adjusted as required. The free edges of said deflector or plate are bent downwardly;

so as to properly direct the straw to the stack or pile. Connected with said deflector and the connecting-plate 10 is a coiled spring 15, which holds the deflector in position.

The operation will be readily understood. As the straw emerges from the outer end of the air-tube it will be forced by the blast against the deflector, from whence it will fall onto the stack or pile. By this means the top of the stack will be made solid and will present a neat appearance, as the straw will be prevented by the deflector from being blown over the rear of the stack or pile.

The slotted arms are extensible and contractible with respect to the tube, so that they may be projected to any distance required beyond the rear end of the tube.

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

1. In a pneumatic straw-stacker, the combination with the pneumatic tube, of the arms pivoted to the outer end of said tube and adapted to be adjusted longitudinally of the same, and the deflector hinged to the outer ends of said arms, substantially as described.

2. In a pneumatic straw-stacker, the combination with the tube, of the pivoted hood, the adjustable arms pivoted to said tube and the spring-actuated deflector hinged to said arms, substantially as described.

3. The combination with the pneumatic tube and the pivots or studs secured thereto, of the slotted arms through which said pivots pass, and the hinged deflector or plate, substantially as described.

4. The combination with the pneumatic tube and the pivots or studs secured thereto, of the slotted arms through which said pivots pass, the bar connected therewith, the plate at the rear ends of said arms, the deflector hinged thereto having its free edges bent downwardly, and the coiled spring, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANK ROBERTS.

Witnesses:

G. E. WESTMAN,
A. F. BELL.