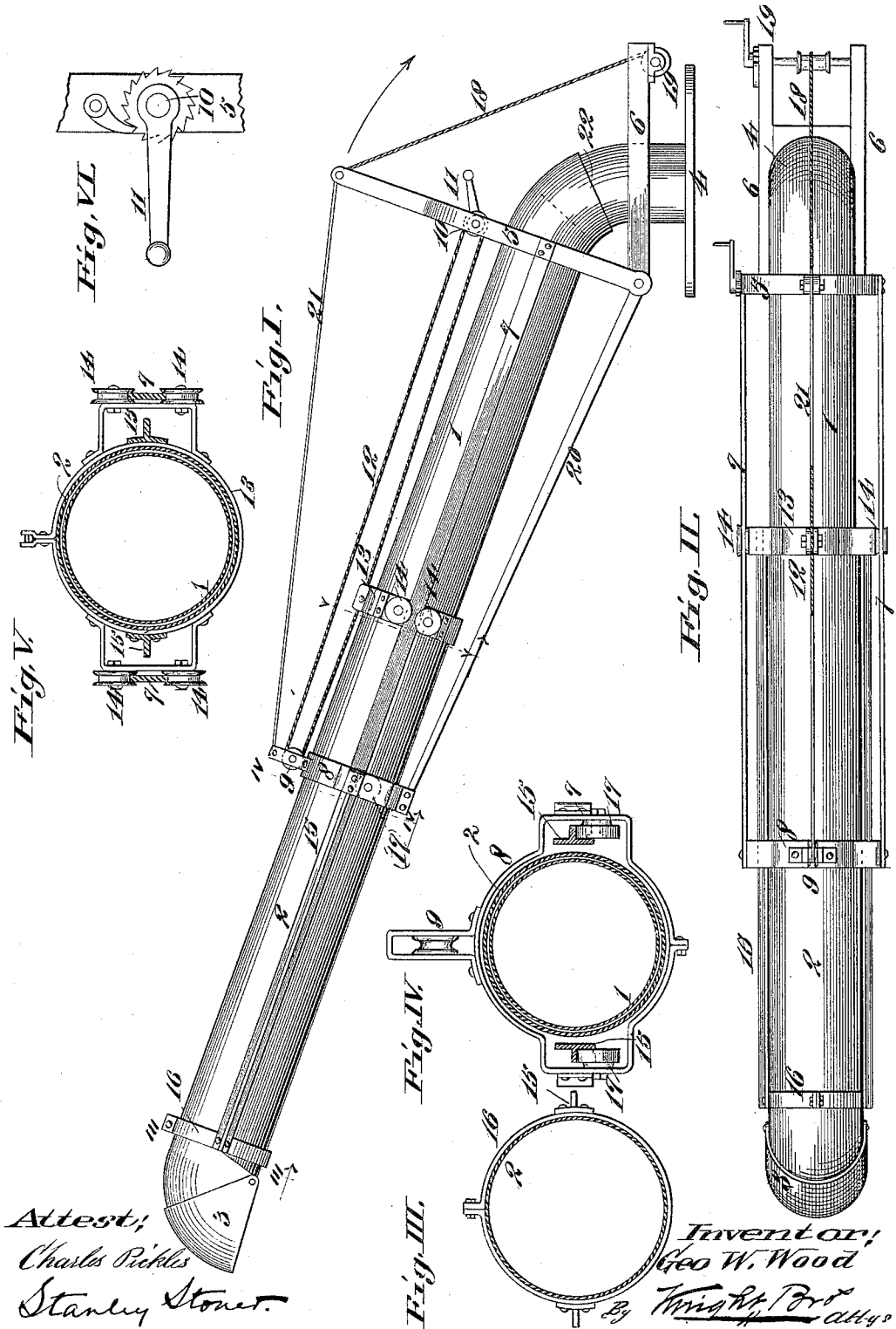


(No Model.)

G. W. WOOD.
PNEUMATIC STACKER.

No. 599,279.

Patented Feb. 15, 1898.



UNITED STATES PATENT OFFICE.

GEORGE W. WOOD, OF WOODBURN, ILLINOIS.

PNEUMATIC STACKER.

SPECIFICATION forming part of Letters Patent No. 599,279, dated February 15, 1898.

Application filed March 22, 1895. Serial No. 542,748. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. WOOD, residing at Woodburn, county of Macoupin, State of Illinois, have invented a new and useful Improvement in Pneumatic Straw-Stackers, of which the following is a full and exact description, reference being had to the accompanying drawings, forming a part of this specification.

10 My invention relates to a new means of supporting and extending a telescope-extension stacker. Its object is to provide a device that will do its work accurately, that will be easy to operate, and that is simple in construction.

15 I accomplish this object by means of the mechanism illustrated in the accompanying drawings, in which—

Figure I represents a side elevation of the stacker extended to nearly its full length. Fig. II represents a top view of the same. Fig. III represents a cross-section through the line III III of Fig. I. Fig. IV represents a cross-section through the line IV IV of Fig. I. Fig. V represents a cross-section through the line V V of Fig. I. Fig. VI represents a detail view of the ratchet-wheel and click used to impart motion to the extension-section.

1 is the section of the stacker attached to the straw-exit of the threshing-machine, but adapted to revolve thereabout.

2 is the extension-sleeve section, adapted to fit over the section 1.

3 is a hood at the end of part 2 to direct the straw onto the stack.

35 4 is the turn-table, which is attached to the threshing-machine.

5 are side braces secured to other braces 6, said parts both being secured to the turn-table.

40 7 are side traveler-bars attached to braces 5 and having secured to their outer end a ring 8. This ring 8 encircles but is not attached to the extension 2.

9 is a pulley carried on the top of ring 8.

45 10 is a windlass operated by the crank 11 and bearing a ratchet-wheel and a click attachment.

12 is a draw rope or belt passing around the windlass 10 and whose ends are fastened to a ring 13. The said ring 13 is secured to the lower end of the extension-sleeve 2.

14 are roller-wheels attached to the ring 13, one pair on each side and bearing one above and one below on the traveler-bars 7.

15 are also traveler-bars attached to the extension-sleeve 2, their forward end secured to the rings 16, clamped about said sleeve 2, and their rear ends secured, as shown in Fig. V, to the ring 13.

17 are roller-wheels attached to the ring 8 and adapted to bear on the lower part of the traveler-bar 15.

18 is a rope operated by windlass 19, adapted to raise or lower the stacker on the sleeve-joint 22.

20 is a brace-bar to support the ring 8. 21 is a guy-rope, also to support said ring 8.

The device is operated as follows: The straw is introduced into the cylinder of the stacker by the ordinary means. It is deposited through the outlet 3 at any point desired. This is accomplished by means of the mechanism I employ to extend the sleeve 2. The crank 11 and windlass 10 serve to wind and unwind the rope 12, and with it the ring 13, attached to the sleeve 2, is carried up or down the cylinder 1. The weight of the lower portion of said sleeve 2 bears against the traveler-bar 7, and the friction thereof is reduced to a minimum by use of the roller-wheels 14. They being situated both above and below said bar 7 allow neither upward nor downward motion. The balance of the weight is carried by the traveler 15, bearing against the roller-wheels 17. The angle of the cylinder may be increased or diminished by lengthening or shortening the rope 18 by means of the windlass 19. This construction affords a simple and compact means of operating the extension. It reduces the number of parts to a minimum with a consequent diminution of weight and complexity. It affords a means of easily directing the straw to any desired place and can be operated easily and quickly.

Having thus described my invention, I claim, and desire to secure by Letters Patent, is—

In an improved pneumatic straw-stacker, the combination consisting of a frame secured to the machine and carrying a ring, a track secured to said frame and ring, an inner cylinder-section placed within said frame and

ring, an outer cylinder-section adapted to fit
over said inner section, rollers carried on the
lower end of said outer section and adapted
to bear against said track, a second track se-
cured to the outer section, roller-wheels in
5 said stationary ring adapted to bear against
said second track, and a means for sliding the

outer cylinder-section on the inner cylinder-
section, substantially as described.

GEORGE W. WOOD.

Witnesses:

TIMOTHY PARTRIDGE,
D. M. BROWN.