

No. 717,312.

Patented Dec. 30, 1902.

E. P. ALSTED.
PNEUMATIC STACKER.

(Application filed May 8, 1902.)

2 Sheets—Sheet 1.

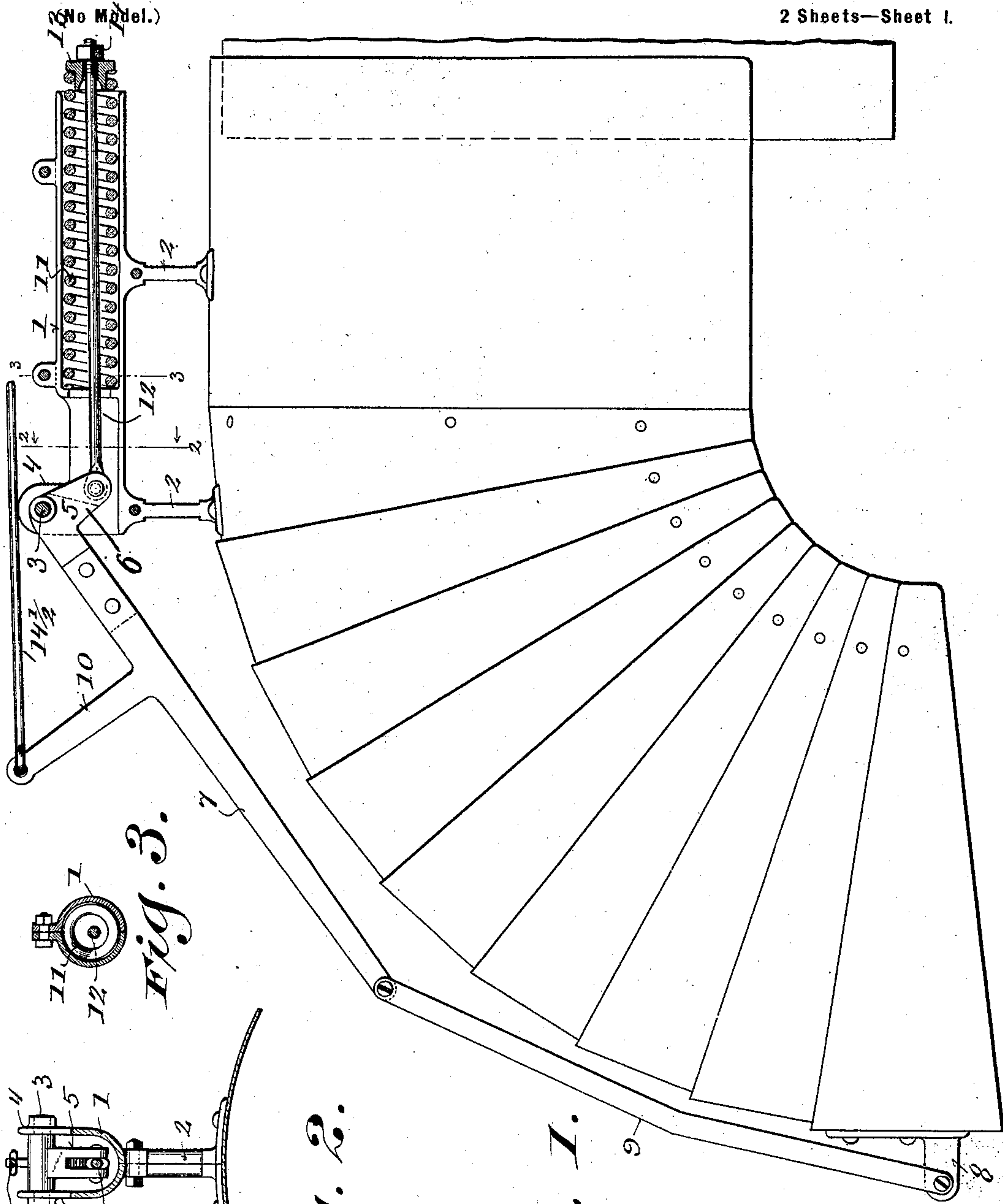


Fig. 3.

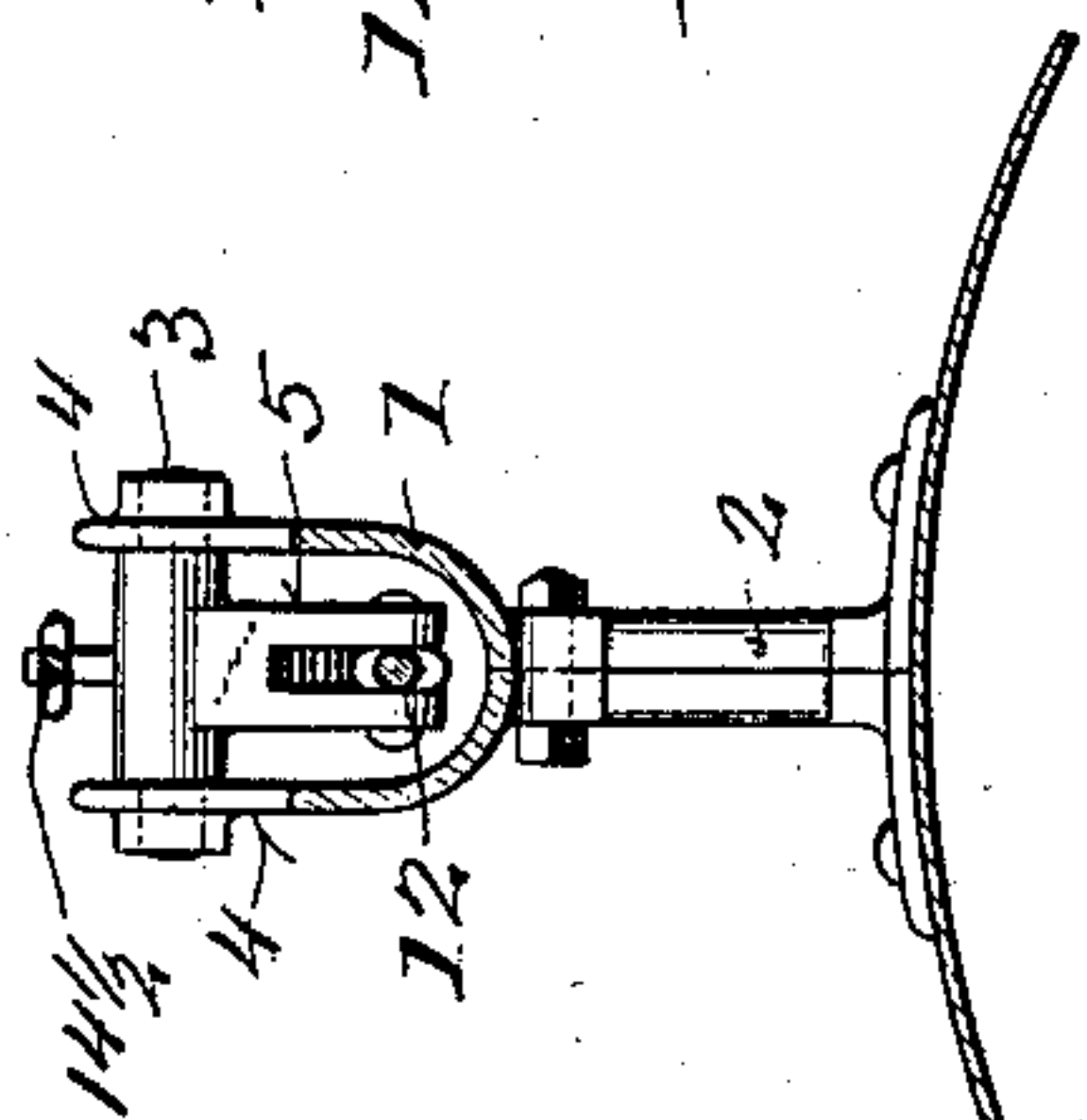


Fig. 2.

Fig. 1.

Witnesses:
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2 Sheets—Sheet 2.

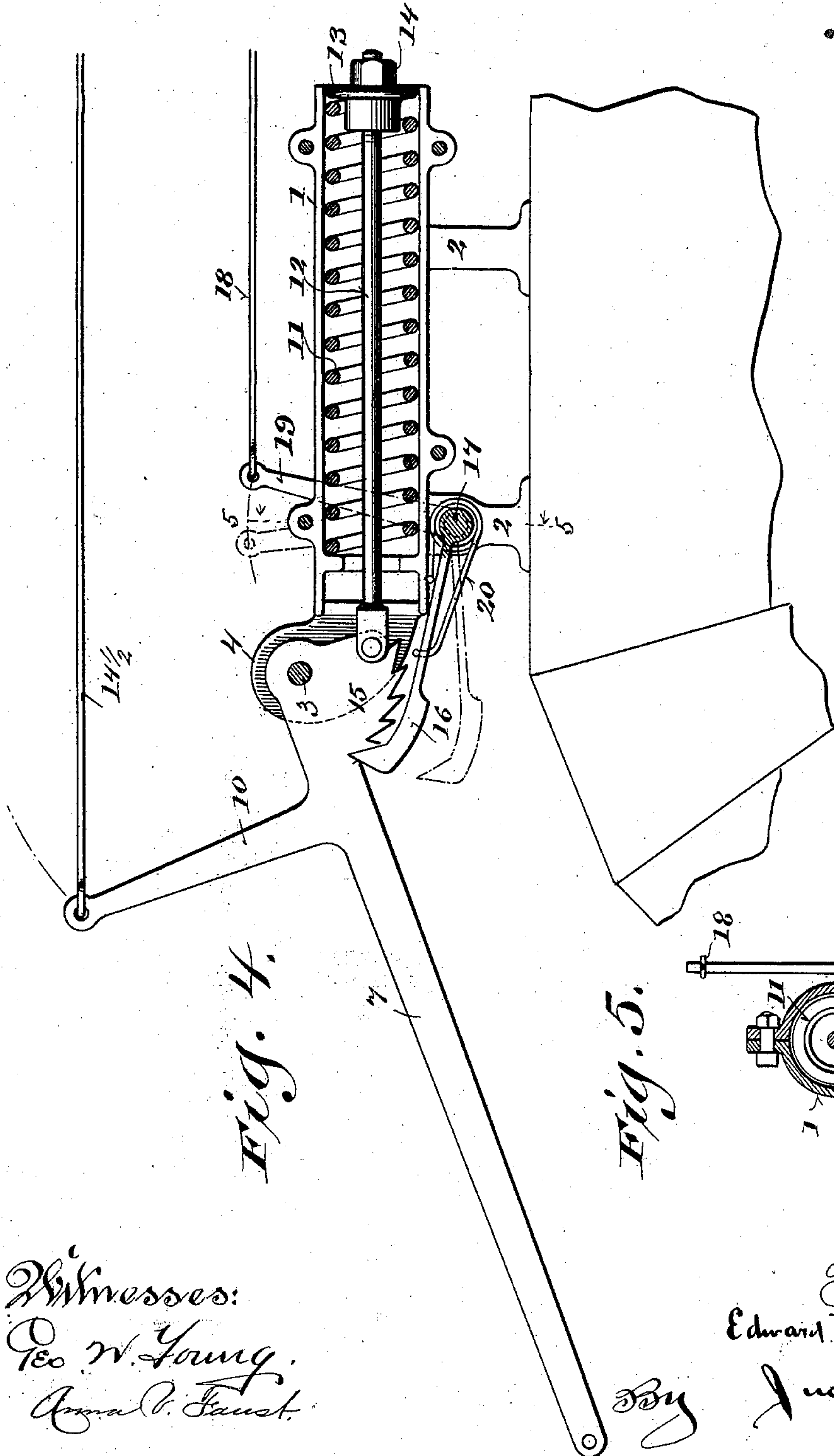


Fig. 4.

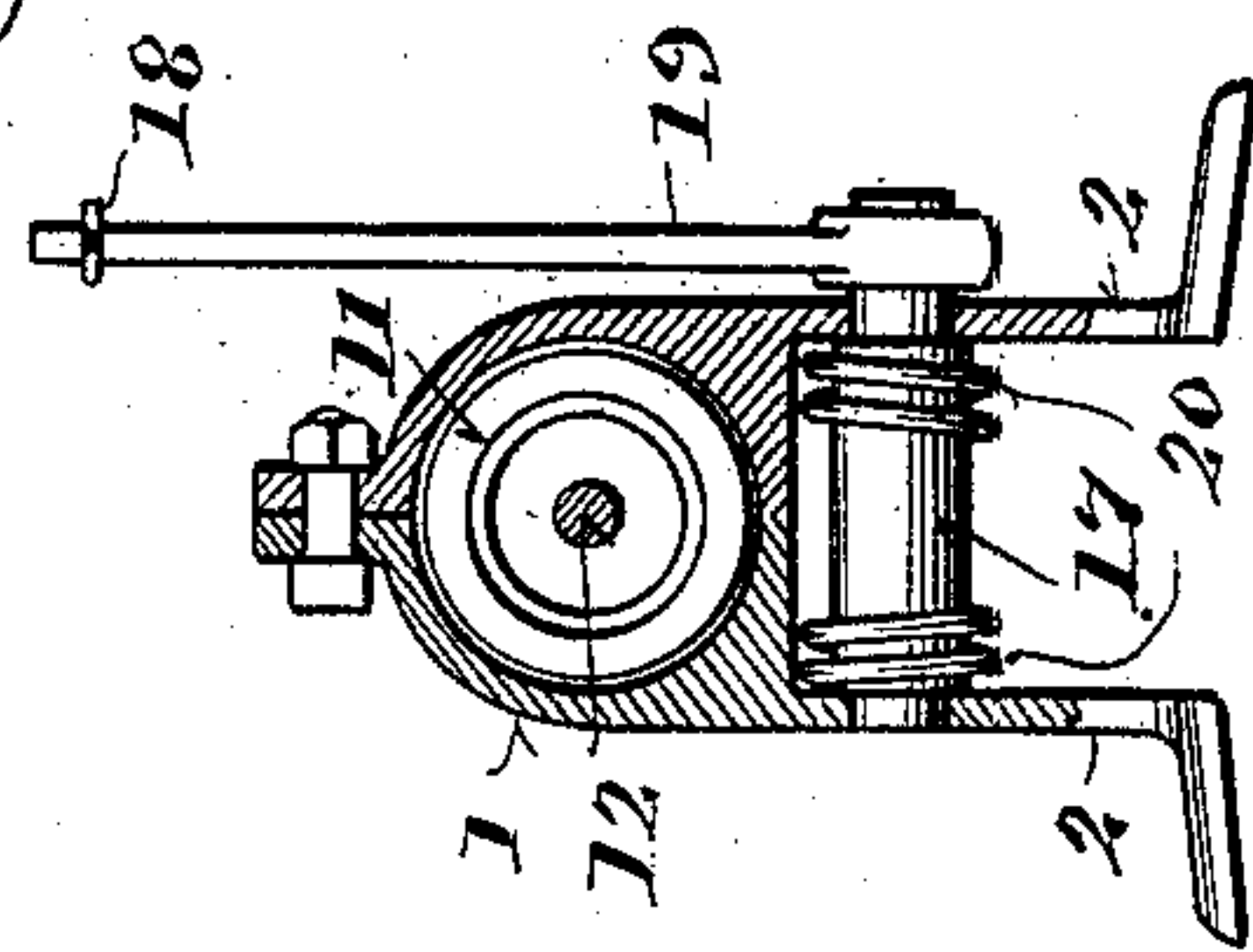


Fig. 5.

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UNITED STATES PATENT OFFICE.

EDWARD P. ALSTED, OF TRUESDELL, WISCONSIN.

PNEUMATIC STACKER.

SPECIFICATION forming part of Letters Patent No. 717,312, dated December 30, 1902.

Application filed May 8, 1902. Serial No. 106,379. (No model.)

To all whom it may concern:

Be it known that I, EDWARD P. ALSTED, a citizen of the United States of America, residing at Truesdell, in the county of Kenosha and State of Wisconsin, have invented certain new and useful Improvements in Pneumatic Stackers, of which the following is a specification.

This invention relates to improvements in pneumatic straw-stackers, and has for its object the production of simple, cheap, and easily-operated means for varying, adjusting, and holding in the desired positions the leaves or movable sections of the hood used on the discharge end of the pipe or duct leading from the fan-drum of a pneumatic stacker. This and other objects I attain in a device constructed as described in the specification, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a hood of a pneumatic stacker. In this view a portion of my device is shown in cross-section. Figs. 2 and 3 are views looking toward the left and right, respectively, and taken on lines 2-2 and 3-3 in Fig. 1. Fig. 4 is a detail view of a modified form of a portion of my device, and Fig. 5 is a cross-sectional view taken on line 5-5 in Fig. 4 looking toward the right.

Throughout the several views like elements are denoted by like characters.

The device consists of a cylindrically-chambered casing 1, preferably formed in halves bolted or otherwise secured together and provided with legs 2, resting on and secured to the top of the pipe or duct of a pneumatic stacker near its forward end. Loosely mounted on a pin 3, supported by furcate arms of a bifurcated support 4 on said casing, is a bell-crank lever 5, having a short arm 6 and a long arm 7. The outer end of arm 7 is connected to a post 8, carried by the extreme outer leaf of the hood of the stacker by a link 9. Arm 7 of the bell-crank lever is provided with a lever-arm 10, extending substantially at right angles to arm 7. Within the cylindrical chamber of the casing is an open spring 11, and through said spring and connecting with the short arm 6 of bell-crank lever 5 is a rod 12, the outer end of which is surrounded by a washer 13, held in position by a lock-nut 14. By moving washer 13 to

different positions on rod 12 and there holding it by nut 14 the force exerted on the bell-crank lever may be varied and through the bell-crank lever and link 9 the power exerted toward holding the hood of the stacker in any desired position may be varied.

To the outer end of lever-arm 10 a rope, cord, or rod 14½ is secured, by means of which arm 7 of the bell-crank lever may be raised against the stress of spring 11 and the hood of the stacker may be held in the position desired, the spring tending to keep the hood from being straightened by the force of the air-blast passing through the stacker.

In Figs. 4 and 5 a modification of the device shown in the other figures is illustrated, and in this modification the bell-crank lever is provided with a toothed segment 15. A pawl 16 is rigidly mounted on a stud 17, carried by the two forward legs of the casing 1, and is adapted to be raised by means of a cord 18, secured to a lever-arm 19, rigidly secured to stud 17. A spring 20 surrounds stud 17 and bears against the top of said pawl and tends to force said pawl downward. The formation of the teeth of said segment 15 and the engaging end of pawl 16 is such that when the cord or rod 14½ is loosened spring 11 will tend to keep said pawl and the tooth with which it is contacting in engagement to prevent the arm 7 of the bell-crank lever from moving from adjusted position. When the lever-arm 10 is raised or rotated by means of cord 14½, spring 20, when cord 18 is slackened, will move the pawl from the path of the toothed segment.

What I claim as my invention is—

1. In combination with the telescopic hood of a pneumatic stacker, a lever pivotally supported adjacent to said hood, a link between the outer leaf of said hood and said lever, a member connected to said lever, a spring acting on said member to cause said lever and link to distend said hood and means for varying the tension of said spring.

2. In combination with the telescopic hood of a pneumatic stacker, a lever pivotally supported adjacent to said hood, a link between the outer leaf of said hood and said lever, a member connected to said lever, a spring acting on said member to cause said lever and link to distend said hood and means for hold-

ing said lever in adjusted positions against the tension of said spring.

3. In combination with the telescopic hood of a pneumatic stacker, a lever pivotally supported adjacent to said hood, a link between the outer leaf of said hood and said lever, said lever provided with engaging projections, a member connected to said lever, a spring acting on said member to cause said lever and link to distend said hood and a pivoted pawl for engaging with said projections to hold said lever in different positions against the tension of said spring.

4. In combination with the telescopic hood of a pneumatic stacker, a lever pivotally supported adjacent to said hood, a link between

the outer leaf of said hood and said lever, said lever provided with engaging projections, a member connected to said lever, a spring acting on said member to cause said lever and link to distend said hood, a pivoted pawl for engaging with said projections to hold said lever in different positions against the tension of said spring, and means for varying the tension of said spring.

Signed by me at Truesdell, Wisconsin, this 19th day of April, 1902.

EDWARD P. ALSTED.

Witnesses:

JOS. H. BELAND,
W. F. ROOD.