(No Model.)

B. A. SCHULER.

CRUPPER STUFFING MACHINE.

No. 428,419. Patented May 20, 1890.

Fig. 1.

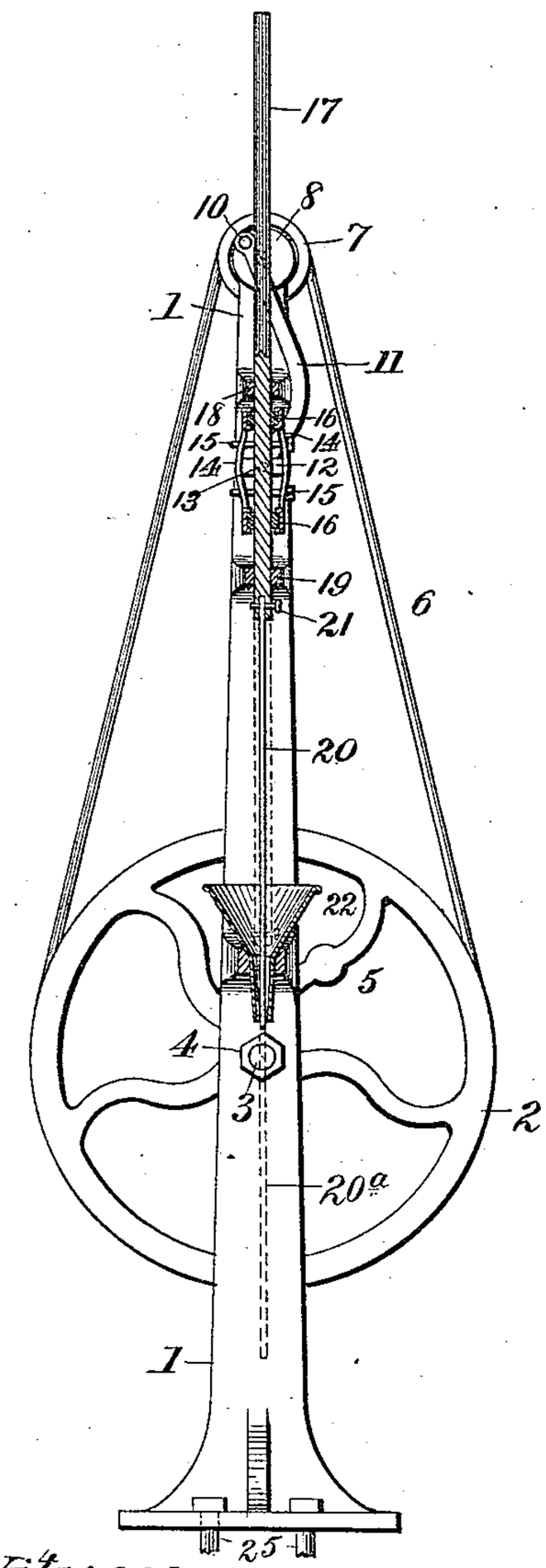

Fig. 2.

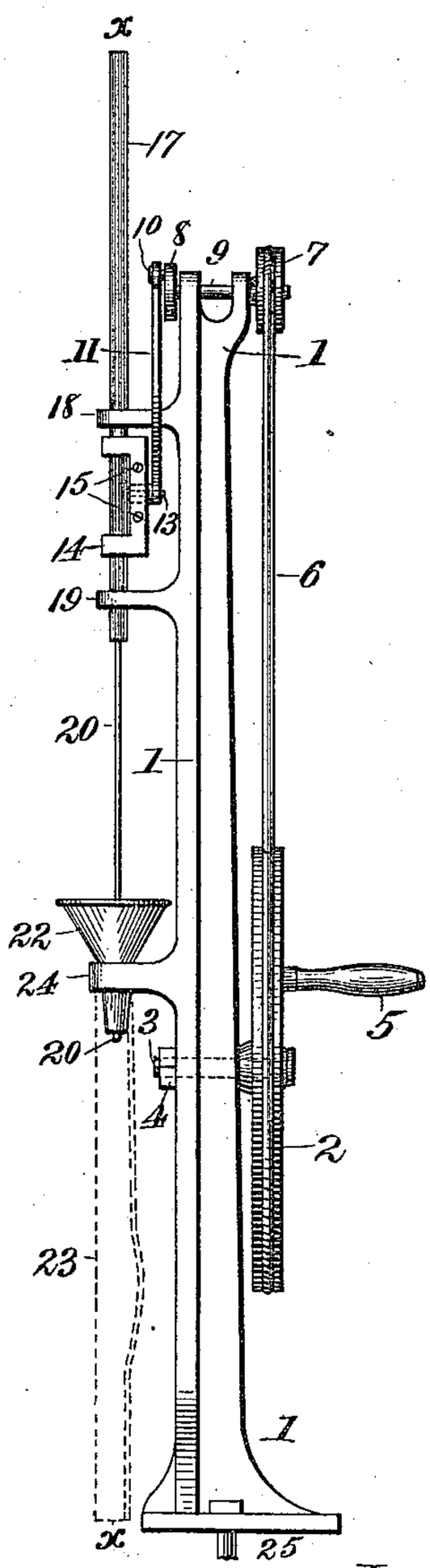

Fig. 3.

Witnesses:
F. H. Anderson
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UNITED STATES PATENT OFFICE.

BARTHOLOMEW A. SCHULER, OF ST. JOSEPH, MISSOURI.

CRUPPER-STUFFING MACHINE.

SPECIFICATION forming part of Letters Patent No. 428,419, dated May 20, 1890.

Application filed December 24, 1889. Serial No. 334,884. (No model.)

To all whom it may concern:

Be it known that I, BARTHOLOMEW A. SCHULER, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in Crupper-Stuffing Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in machines for stuffing cruppers; and it consists in the construction and combination of the parts hereinafter fully set forth and explained.

Figure 1 is a longitudinal section of the machine on the line X X, as seen in Fig. 2. Fig. 2 is a side view of the machine. Fig. 3 is a view of the tamping-rod.

Similar numbers refer to similar parts throughout the several views.

1 shows the frame of my invention, which is preferably made in one piece and of cast-iron. The drive-wheel 2 is rotated by means of crank 5 on spindle 3, said spindle being secured to frame 1 by means of nut 4. Belt 6 conveys the rotary motion of drive-wheel 2 to pulley 7. Pulley 7 and face-plate 8 are rigidly fastened to shaft 9. Wrist-pin 10 is rigidly fastened to face-plate 8. The rotary motion of pulley 7 is conveyed to the upper end of connecting-rod 11 by means of shaft 9, face-plate 8, and wrist-pin 10 in the usual manner. The lower end of connecting-rod 11 is pivotally attached to journal-box 12 by means of wrist-pin 13. Journal-box 12 carries two springs 14 14, securely attached to said box. The two tension-screws 15 15 are for tightening the pressure of springs 14 14 on four leather rubbers 16 16 16 16. The driving-bar 17 passes downward through bearing 18, the four leather rubbers 16, and bearing 19, and is driven up and down by means of the tension-grip of leather rubbers 16. The tamping-rod 20 passes upward into driving-bar 17 and is securely fastened to it by set-screw 21. The tamping-rod 20 passes up and down through funnel 22, driving the contents of said funnel into crupper 23, which is shown by dotted lines in Fig. 2. An extension or bearing 24 of frame 1 supports funnel 22 in its place. The crupper 23 is attached to the tube of the funnel or to extension or bearing 24 by hook or any convenient device, and remains stationary until filled and removed, the tamping-rod 20 being gradually forced upward and out of crupper as the crupper becomes full. Tamping-rod 20 is provided with a ratchet-notched surface, as shown in Fig. 3, in order to facilitate the downward travel and tamping solid of the material used for stuffing the crupper.

25 25 are two ordinary bolts for fastening frame 1 to a table or floor.

In the operation of this machine I reserve to myself the right to operate the same by steam or otherwise, instead of by hand, by attaching belt 6 to machinery in the usual manner instead of to drive-wheel 2.

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

1. In a crupper-stuffing machine, in combination, funnel 22, tamping-rod 20, bar 17, driving the rod through funnel, springs 14 14, tension-screws 15 15, connecting-rod 11, journal-box 12, wrist-pin 13, face-plate 8, and wrist-pin 10, with the attached machinery conveying rotary motion, substantially as described.

2. In a crupper-stuffing machine, in combination, connecting-rod 11, attached to pulley, journal-box 12, and wrist-pin 13, pivotally attaching the same, springs 14 14, attached to journal-box, leather rubbers 16 16, and tension-screws 15 15 for tightening the pressure of springs on rubbers, and driving-bar 17, passing through rubbers, tamping-rod 20, and set-screw 21, connecting driving-bar and tamping-rod, with the means for operating the same, and the funnel, substantially as described.

3. In a crupper-stuffing machine, in combination, vertical standard or frame 1, drive-wheel 2, spindle 3, nut 4, rotating crank 5, and pulley 7, connecting-belt 6, shaft 9, to which pulley is rigidly fastened, face-plate 8, connecting-rod 11, and wrist-pin 10, by which rod is rigidly fastened to pulley conveying

the rotary motion of same, journal-box 12, and wrist-pin 13, by which lower end of connecting-rod is pivotally attached to journal-box, springs 14 14, tension-screws 15 15, the four rubbers 16, bearings 18 and 19, bar 17, driven up and down by tension-grip of rubbers, ratchet-notched tamping-rod 20, set-screw 21, by which tamping-rod is attached to driving-bar, funnel 22, and extension or bearing 24, holding funnel in place, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

BARTHOLOMEW A. SCHULER.

Witnesses:
W. L. WHITTINGTON,
J. C. NORWOOD.