

(No Model.)

H. VAN PELT.
CORN SHOCK COMPRESSOR.

No. 603,582.

Patented May 3, 1898.

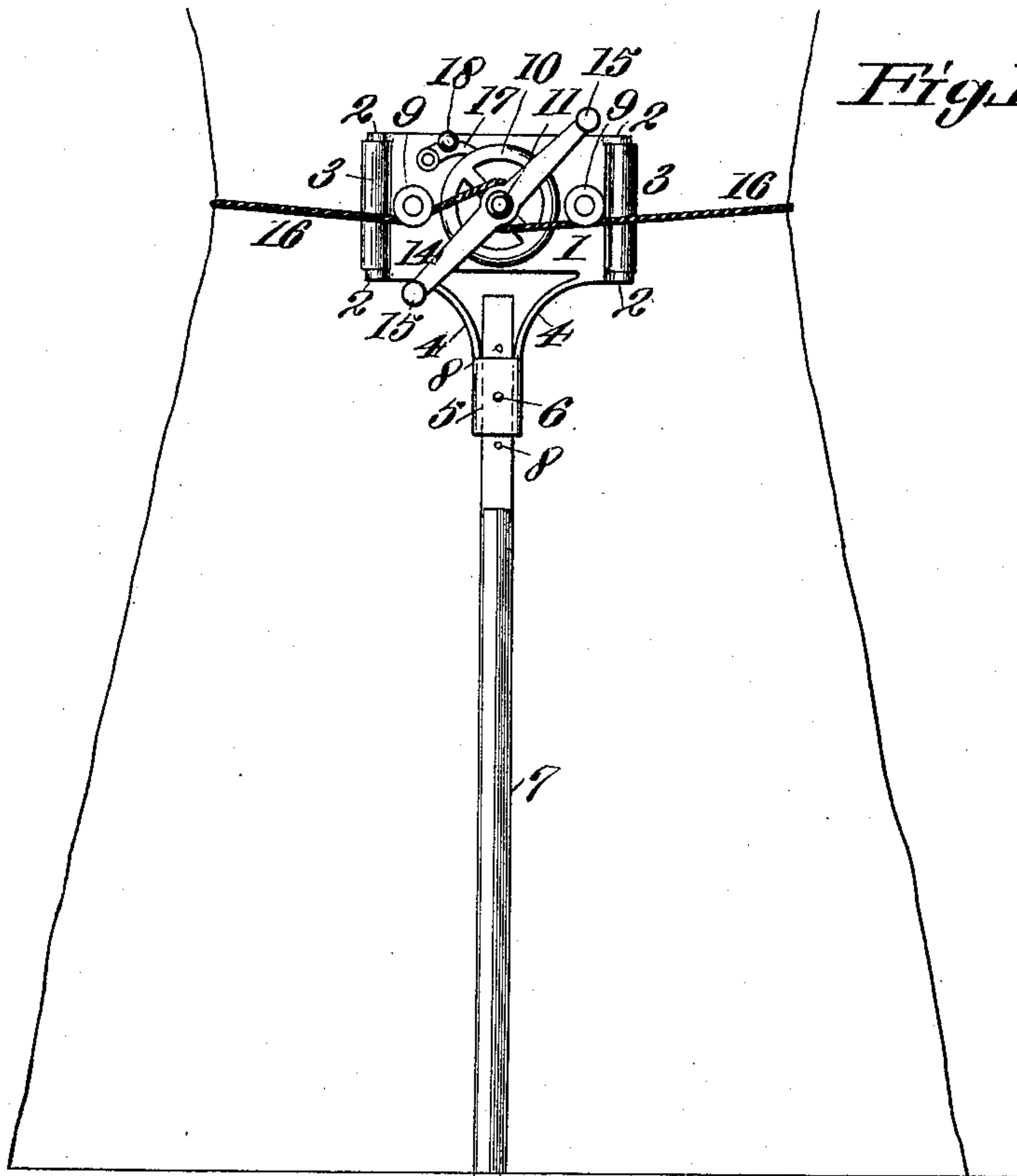


Fig. I.

Fig. II.

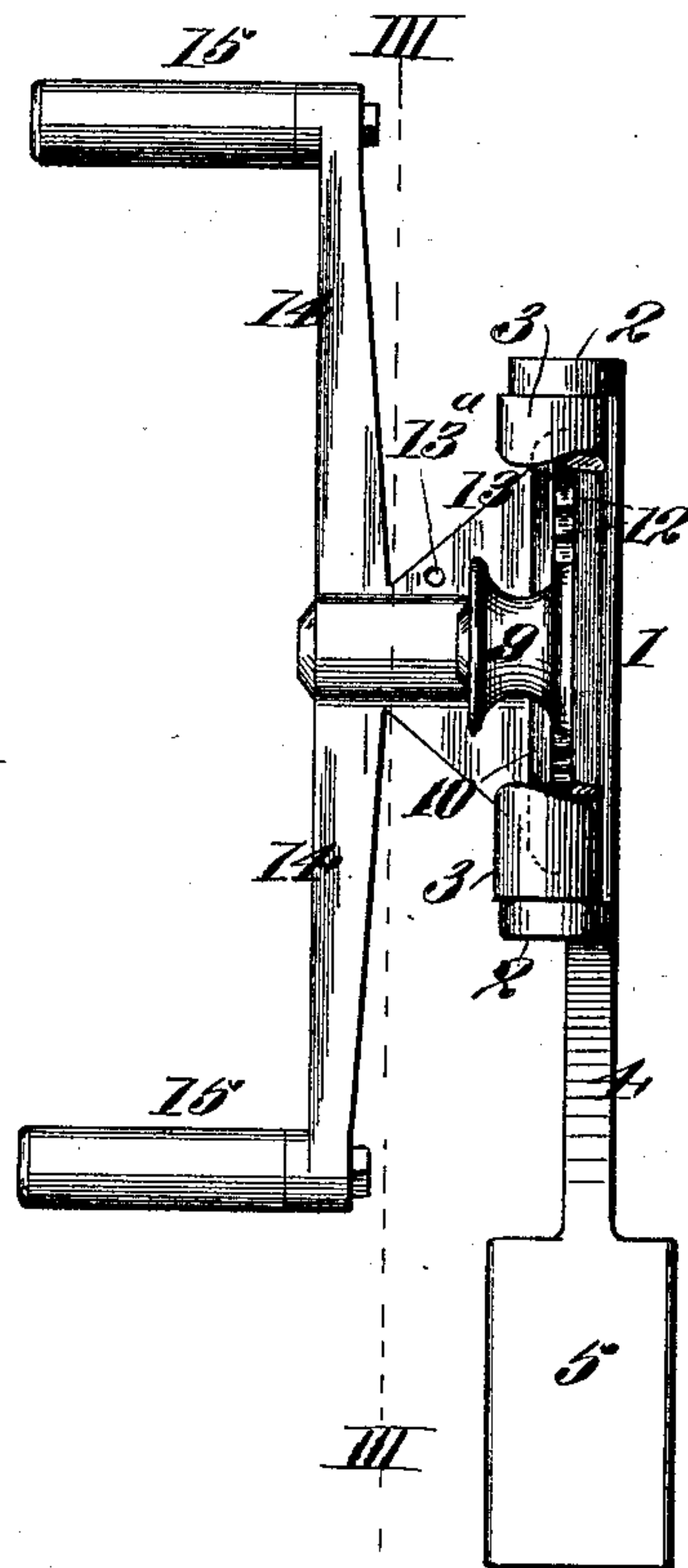
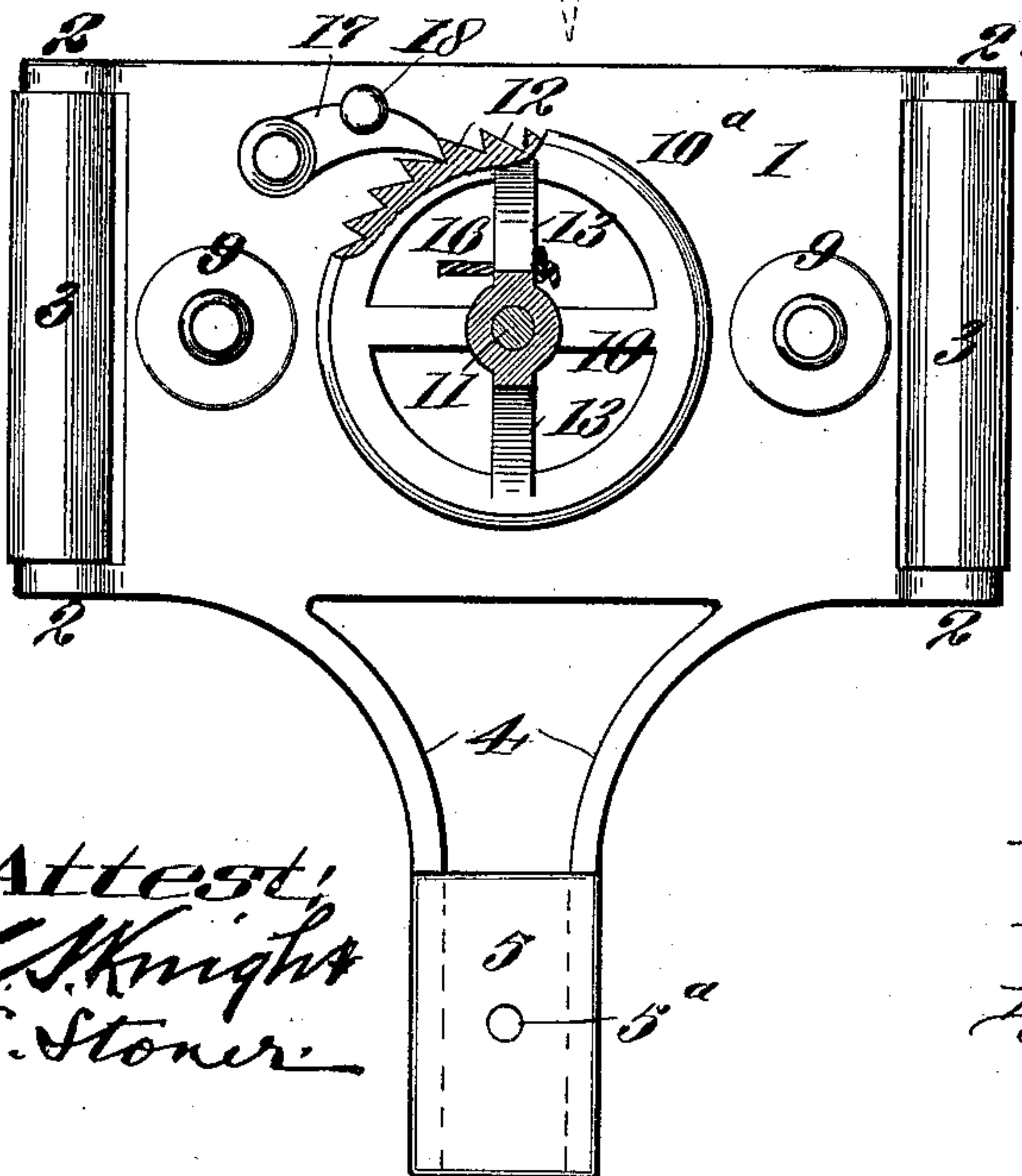


Fig. III.



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UNITED STATES PATENT OFFICE.

HARMON VAN PELT, OF NEW ATHENS, ILLINOIS.

CORN-SHOCK COMPRESSOR.

SPECIFICATION forming part of Letters Patent No. 603,582, dated May 3, 1898.

Application filed November 15, 1897. Serial No. 658,565. (No model.)

To all whom it may concern:

Be it known that I, HARMON VAN PELT, a citizen of the United States, residing at New Athens, in the county of St. Clair and State of Illinois, have invented certain new and useful Improvements in Corn-Shock Compressors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to that class of devices used in acquiring a strain upon shocks of corn-fodder to compress them at the binding position in order to enable the binding to be accomplished with the shock in a compact condition.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a front elevation of my device illustrated as in position in use to compress a shock of fodder. Fig. II is an edge view of the compressor with one of the rollers partially broken out. Fig. III is an enlarged front elevation, with the operating-handle removed, on the line III III, Fig. II, with part of the ratchet-wheel in section.

1 designates a plate on which the working parts of the device are mounted. This plate may be of metal or other suitable material capable of withstanding strain. At the ends of the plate are ears 2, in which rollers 3 are journaled.

The plate 1 has legs 4, that terminate in a sleeve 5, provided with an opening 5^a, adapted to receive a pin 6. 7 is a standard adapted to fit within the sleeve 5 and provided with openings 8, into either of which the pin 6 may be inserted on passing it through the sleeve, this arrangement enabling the adjustment of the plate 1 on the standard. The free end of the standard is pointed, in order that it may be readily pressed into the ground and the plate 1 be supported against the side of the shock to be compressed.

9 designates grooved pulleys mounted on the plate near the ends of the plate and in proximity to the rollers 3.

10 designates a ratchet-wheel mounted on a spindle 11, carried by the plate 1. The teeth 12 of this wheel are located at the under side thereof, with a rim 10^a over the teeth.

13 designates the web of a reel carried by the ratchet-wheel 10, the edges of said web inclining inwardly toward a common center, and extending at angles from the web are handle-arms 14, on which are hand-grips 15. The web 13, having its edges inclined inwardly, and the handle-arms extending at angles from the web, afford V-shaped gripping-surfaces for the rope employed in connection with the reel.

In the web 13 is an eye 13^a, that receives one end of a rope 16, secured therein, the opposite end of the rope being free.

17 designates a pivoted dog provided with a knob 18. The point of this dog is adapted to engage with the teeth of the ratchet-wheel 10 or removed from such engagement, as desired, in the operation of the device.

In use the compressor is operated in the following-described manner: The plate 1 is placed against a shock to be bound and the point of the standard is pressed into the ground to maintain the compressor in upright position. The unattached end of the rope is then passed around the shock and wrapped around the reel-web 13, where it will be gripped firmly between the web and the handle-arms 14. At this time both ends of the rope 16 are connected with the reel, and the device is in readiness for the shock to be compressed, the parts being disposed as shown in Fig. I, the rope passing under the pulleys 9 and over the rollers 3 and the dog 17 being thrown into engagement with the teeth of the ratchet-wheel. The hand-grips 15 are then grasped, and the handle-arms 14 are turned to wind the rope onto the reel-web, and thus tighten it upon the shock to compress the shock. During this operation the dog 17 slips over the teeth of the ratchet-wheel and prevents retrograde movement of said wheel, and the pulleys 9 prevent the rope from slipping upwardly and off of the rollers 3. When the shock has been compressed to the desired extent, the binder is applied and the compressor is removed. In removing the compressor the dog 17 is released from engagement with the ratchet-wheel by grasping the knob 18, and the ratchet-wheel being freed from restraint turns in a reverse direction, the rope is slackened, and the compressor is removed from the shock.

I claim as my invention—

1. In a shock-compressor, the combination of a standard, a plate attached to said standard, a ratchet-wheel mounted on said plate, a reel carried by said ratchet-wheel; said reel comprising a web having inwardly-inclined edges and handle-arms extending at angles from said web, and a rope attached to said reel, substantially as described.
2. In a shock-compressor, the combination of a standard, a plate attached to said standard, a ratchet-wheel mounted on said plate, a detent-dog, a reel carried by said ratchet-wheel; said reel comprising a web having inwardly-inclined edges and handle-arms ex-

tending at angles from said web, and a rope attached to said reel, substantially as described.

3. In a shock-compressor, the combination of a plate, a sleeve carried by said plate, a standard adjustably attached to said sleeve, a ratchet-wheel and a detent-dog mounted on said plate, a reel carried by said ratchet-wheel, and a rope attached to said reel, substantially as described.

HARMON VAN PELT.

In presence of—

ALBERT RUESTER,
JNO. W. WIEGAND.