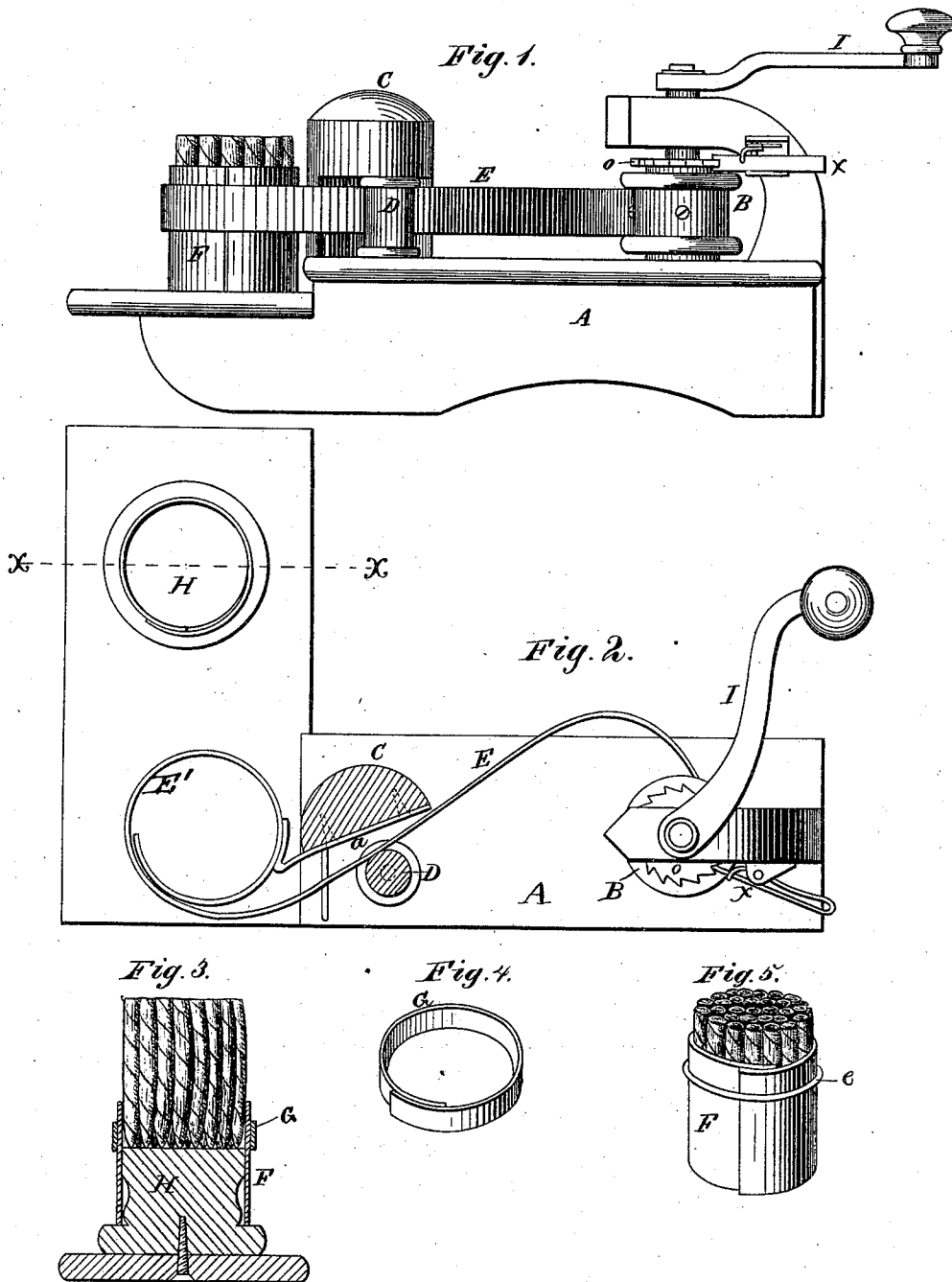


S. & A. WOODARD.
CIGAR PACKING-MACHINE.

No. 177,608.

Patented May 16, 1876.



WITNESSES
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UNITED STATES PATENT OFFICE.

STEPHEN WOODARD AND ALBERT WOODARD, OF ZANESVILLE, OHIO,
ASSIGNORS TO ISAAC A. WILSON, OF SAME PLACE.

IMPROVEMENT IN CIGAR-PACKING MACHINES.

Specification forming part of Letters Patent No. **177,608**, dated May 16, 1876; application filed
January 28, 1876.

To all whom it may concern:

Be it known that we, STEPHEN WOODARD and ALBERT WOODARD, of Zanesville, in the county of Muskingum, and in the State of Ohio, have invented certain new and useful Improvements in Cigar Bunching and Pressing Machine; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of the several parts of a machine for the purpose of pressing and binding cigars in bunches, as will be hereinafter more fully set forth.

In the accompanying drawings, making part of this specification, Figure 1 represents a side view; Fig. 2, a plan view; and Figs. 3, 4, and 5, are views of detached portions of the machine, as will be described.

In the figures, A represents a table, upon which my apparatus is placed and secured. B represents a small windlass, which is secured upon the table, and which is provided with a ratchet-wheel, *o*, and a pawl or detent, *x*, as usual, and also with a crank-handle, I. Erected upon this table A is a standard, C, and close by the side of this standard is a roller, D. E represents a metallic band, one end of which is secured to the barrel of the windlass, and the other end to a plate, *a*, which is secured to or made fast to the post C. This band forms a loop, E', as seen in Fig. 2, which can be closed by the windlass when desirable. The band E passes between the post C and the roller D, and is thus retained and held in position. F represents a metallic band with overlapping loose ends. This band is made very nearly the depth of an ordinary bundle of cigars, and large enough in diameter to embrace a bundle. After a bundle of cigars has been placed within this metallic band, said band is placed within the loop of

the metallic strap E; and when the windlass is turned by means of the crank-handle the band F is closed upon the bundle, and the said bundle is thus compressed as much as may be desired. When compressed sufficiently a metallic ring is placed around the band F, and said band is then removed from the loop of the strap E. When the bundle has dried sufficiently the ring *e* is removed, and a spring band or ring, G, is placed around the band F. The band F is then placed over a round block, H, upon the table. This block is made a little smaller in diameter than the bundle of cigars. The spring-ring G allows the cigars to be moved endwise in the band F, and when one-half of the bundle projects beyond the band, the usual ribbon is tied around it, and it is then ready for boxing.

It will be seen that by this apparatus or machine cigars may be pressed and tied with great facility and very cheaply.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the table A, windlass B, ratchet-wheel and pawl *o x*, the metallic band E, connected to said windlass and forming the loop E' at its outer end, the post C, having an angular plate, *a*, connected to the metallic band, and the friction-roller D, all constructed substantially as and for the purposes herein set forth.

2. The combination, with the table A, of the block H, the open band F, and spring band or ring G, as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands and seals this 14th day of January, 1876.

STEPHEN WOODARD. [L. S.]
ALBERT WOODARD. [L. S.]

Witnesses:
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