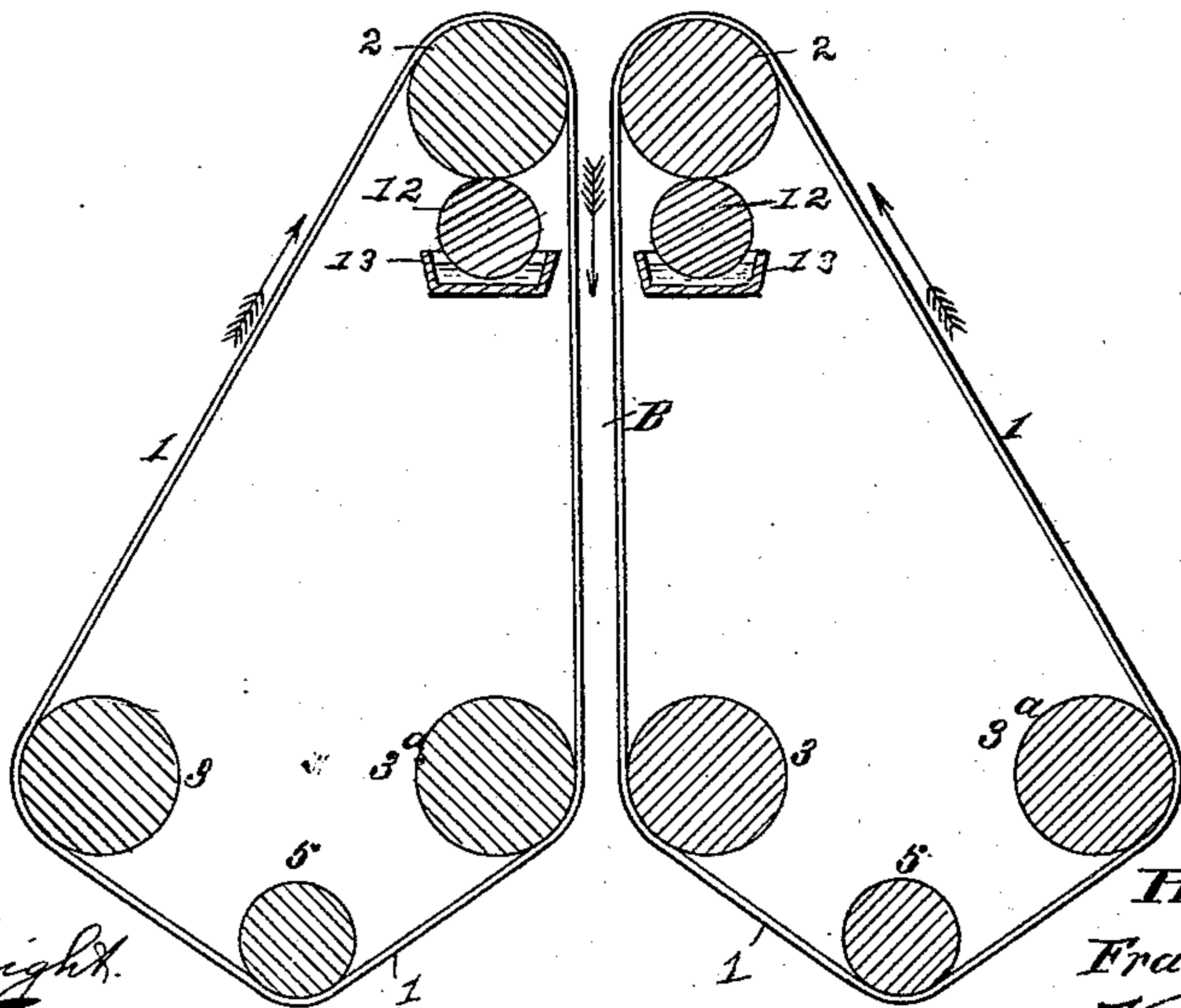
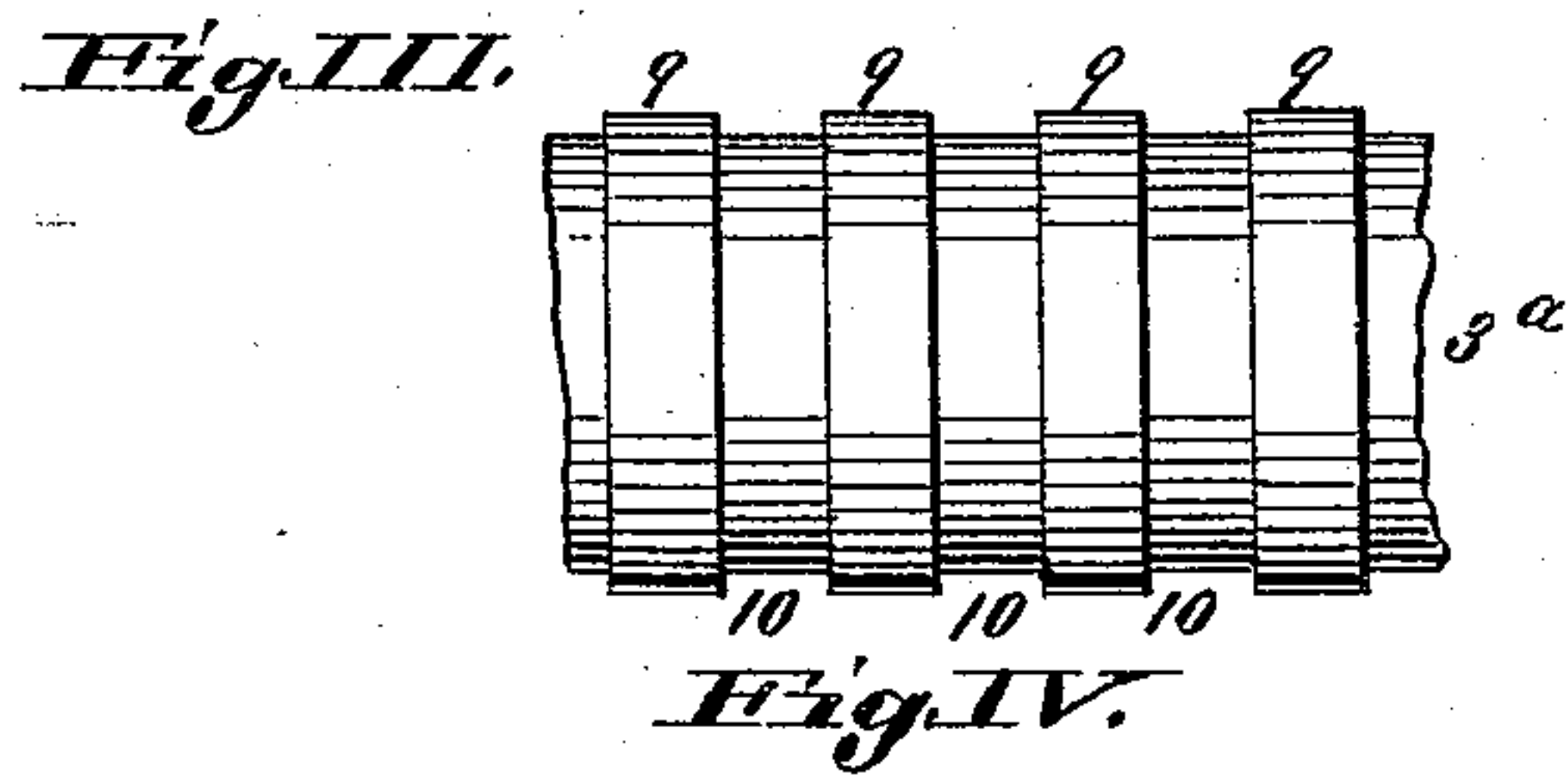
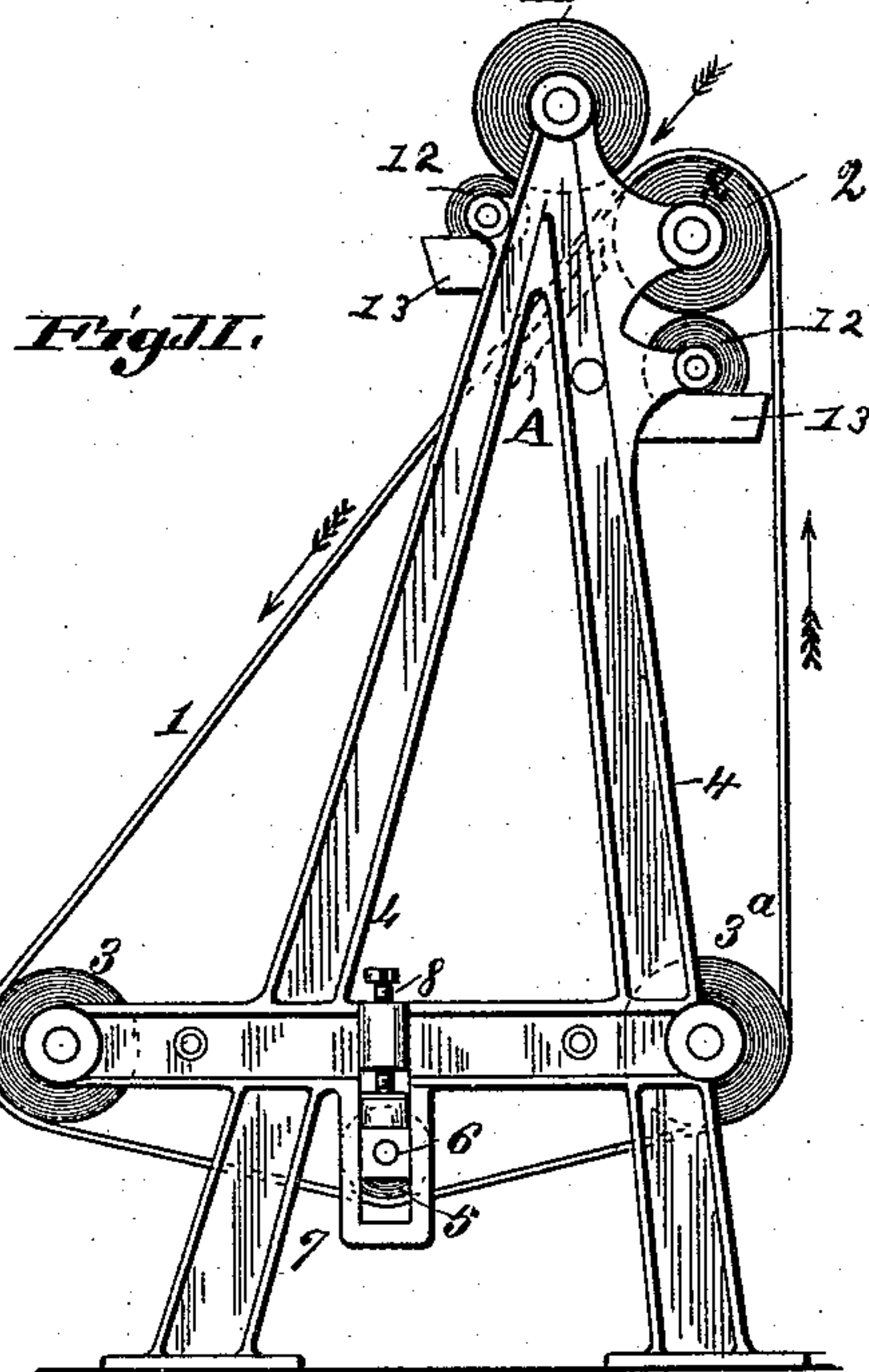
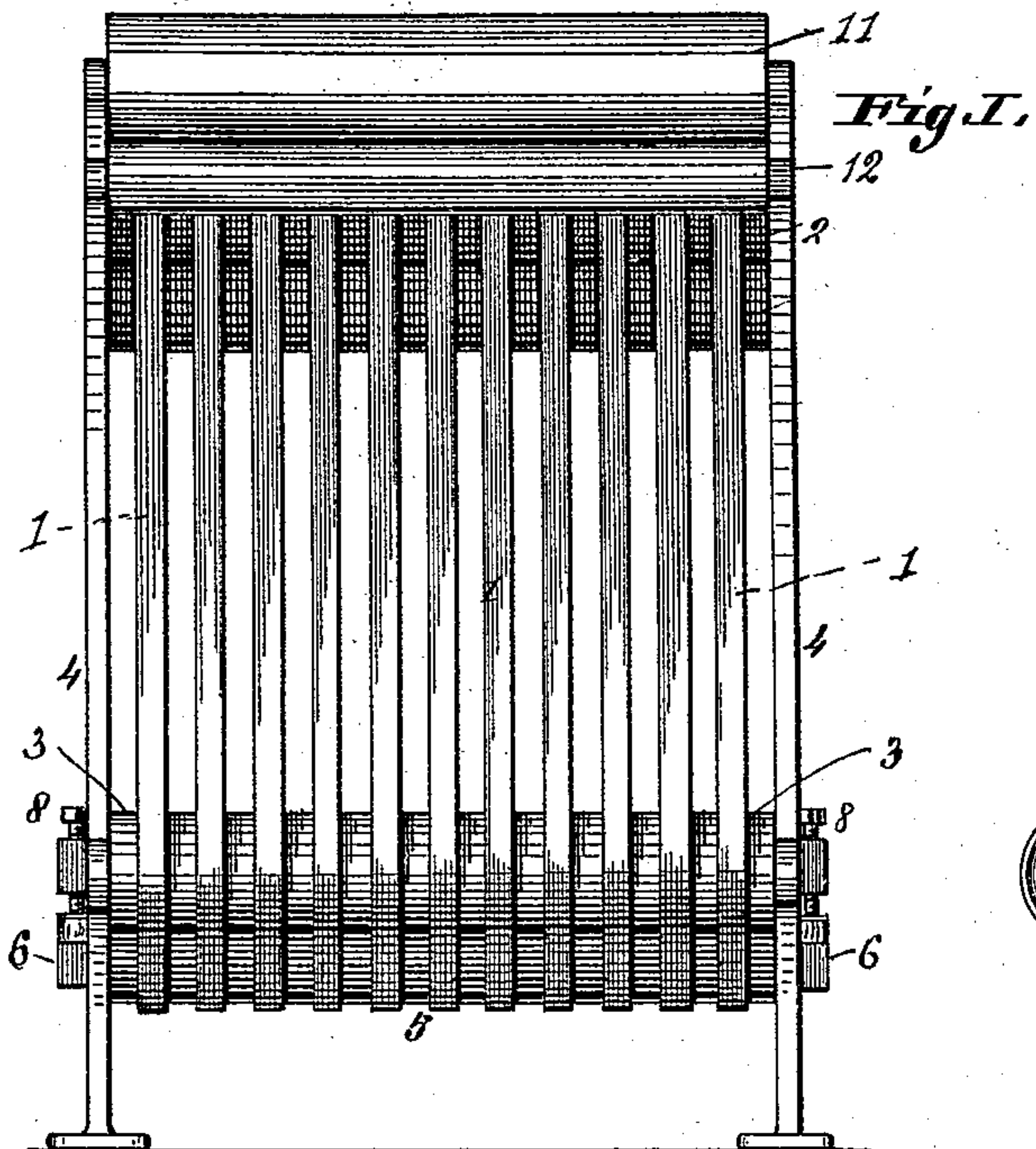


(No Model.)

F. H. WEEMS.
DAMPENING MACHINE.

No. 488,102.

Patented Dec. 13, 1892.



Attest:
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UNITED STATES PATENT OFFICE.

FRANK H. WEEMS, OF QUINCY, ILLINOIS.

DAMPENING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 488,102, dated December 13, 1892.

Application filed June 22, 1891. Serial No. 397,102. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. WEEMS, of Quincy, in the county of Adams and State of Illinois, have invented a certain new and useful Improvement in Dampening-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to certain improvements in machines intended more particularly for dampening shirts and collars, the object being to produce a device which will facilitate the handling of the goods and which will avoid all possibility of the goods getting between the parts of the machine and torn.

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

Figure I is a front elevation illustrative of my invention. Fig. II is a side or end view. Fig. III is an enlarged detail view of the fluted guide-roller. Fig. IV is a vertical section showing my invention applied to a different form of dampening-machine to that shown in Figs. I and II, in which the parts are duplicated, the duplicated feeding and lower dampening devices being shown and the upper feeding and dampening devices being omitted.

These machines have ordinarily been arranged with an inclined board or chute located as indicated by dotted lines A, Fig. II, which receives the goods as they come from the dampening-rollers. It has been found in practice that the goods will frequently catch between the lower large dampening-roller and this inclined board, and will also at times be caught between other parts of the machine and be torn.

The object of my invention, as stated, is to avoid any possibility of the goods being caught and torn in any part of the machine.

1 represents a number of guide-tapes forming endless belts, which pass over the lower main dampening-roller 2 of the machine and beneath the two lower rollers 3 3^a, journaled

in the frame 4 of the machine, and also beneath a tightening-roller 5, journaled in sliding boxes 6, held in guides 7 on the frame 4, and adjusted by means of set-screws 8, so as with the weight of the tightening-roller to keep the guide-tapes 1 taut. The roller 3^a is fluted or provided with flanges 9, forming grooves 10 to receive the guide-tapes 1 and hold them in their proper relative positions to each other.

11 is another dampening-roller hung in the extreme upper ends of the side pieces of the frame 4. Below and in frictional contact with the said upper dampening-roller 11 and with the lower dampening-roller 2 are arranged small rollers 12, working in the troughs 13 for applying liquid to the dampening-rollers. As the machine is operated the guide-tapes move in the direction indicated by the arrows, Fig. II, and it will be seen that they will convey the goods from the machine without any danger of the goods being caught in the parts and torn or destroyed.

In Fig. IV I have shown my invention applied to a different form of dampening-machine, wherein there is practically a duplication of the parts shown in Figs. I and II, which will be readily understood, and in this form of the machine the goods pass down through the space B between the two series of tapes in the direction indicated by the arrow. In this figure the upper feeding and dampening devices, the tightening device, and the frame are omitted.

I claim as my invention—

1. The combination of a pair of dampening-rollers, dampening devices for said rollers, the series of guide-tapes for conducting the goods away from the dampening-rollers, and mechanism for holding the guide-tapes taut and causing them to travel with the dampening-rollers, substantially as described.

2. The combination of a pair of dampening-rollers, dampening devices for said rollers, the series of guide-tapes for conducting the goods away from the dampening-rollers, the lower roller 3, the lower fluted roller 3^a

for spacing the guide-tapes, and the roller 5
for tightening the latter, substantially as de-
scribed.

3. The combination of a pair of dampen-
5 ing-rollers, dampening devices for said roll-
ers, the series of guide-tapes for conducting
the goods away from the dampening-rollers,
the lower rollers, the frame having guides,

boxes sliding in the guides, tightening-roller
 journaled in the boxes, and set-screws bear- 10
ing on the boxes, substantially as described.

FRANK H. WEEMS.

In presence of—

CHAS. S. ROSS,

W. J. REYNOLDS.