

B. S. ROY.

Feeding Mechanisms for Carding-Machines.

No. 156,064.

Patented Oct. 20, 1874.

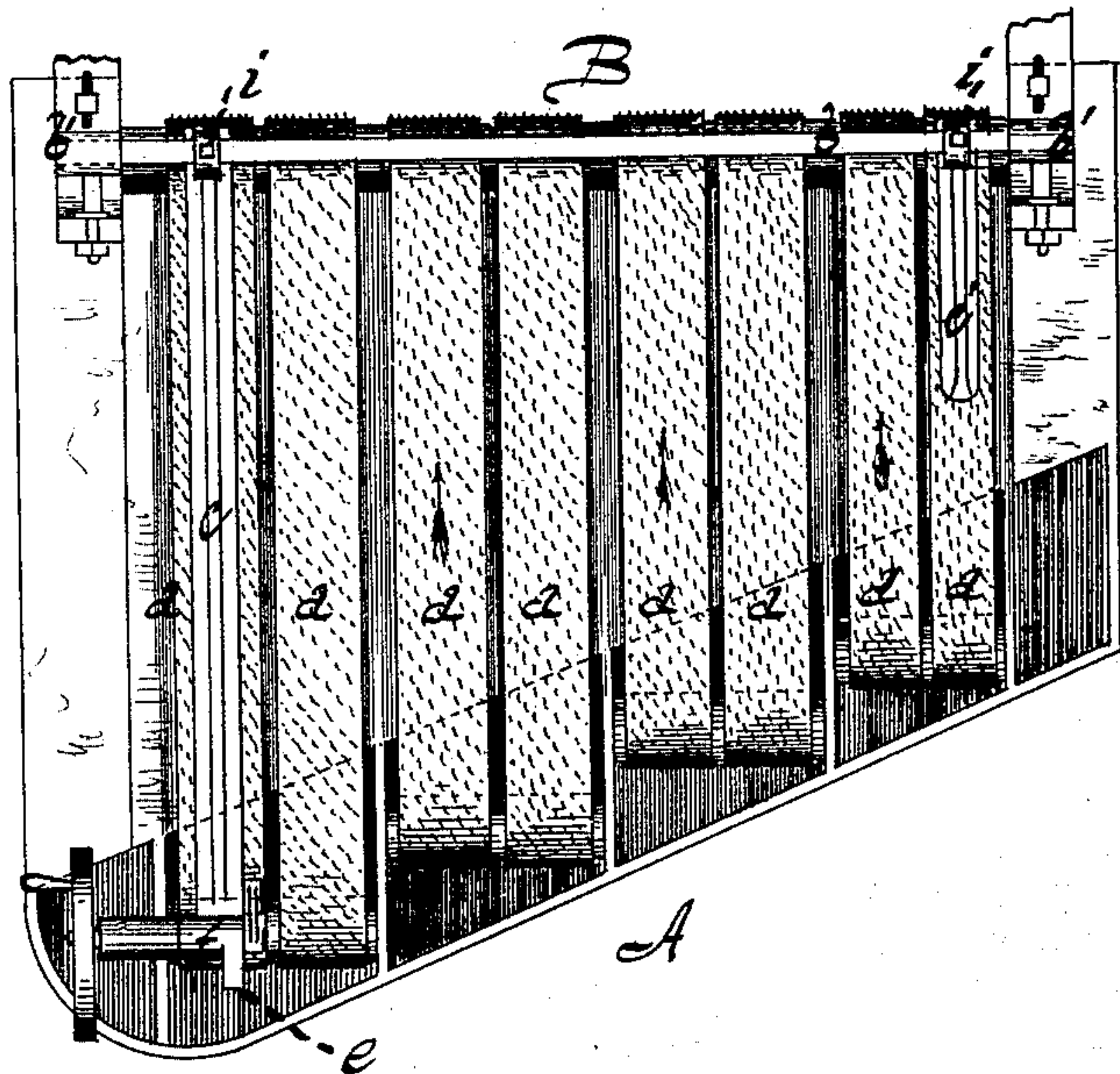


Fig. 1

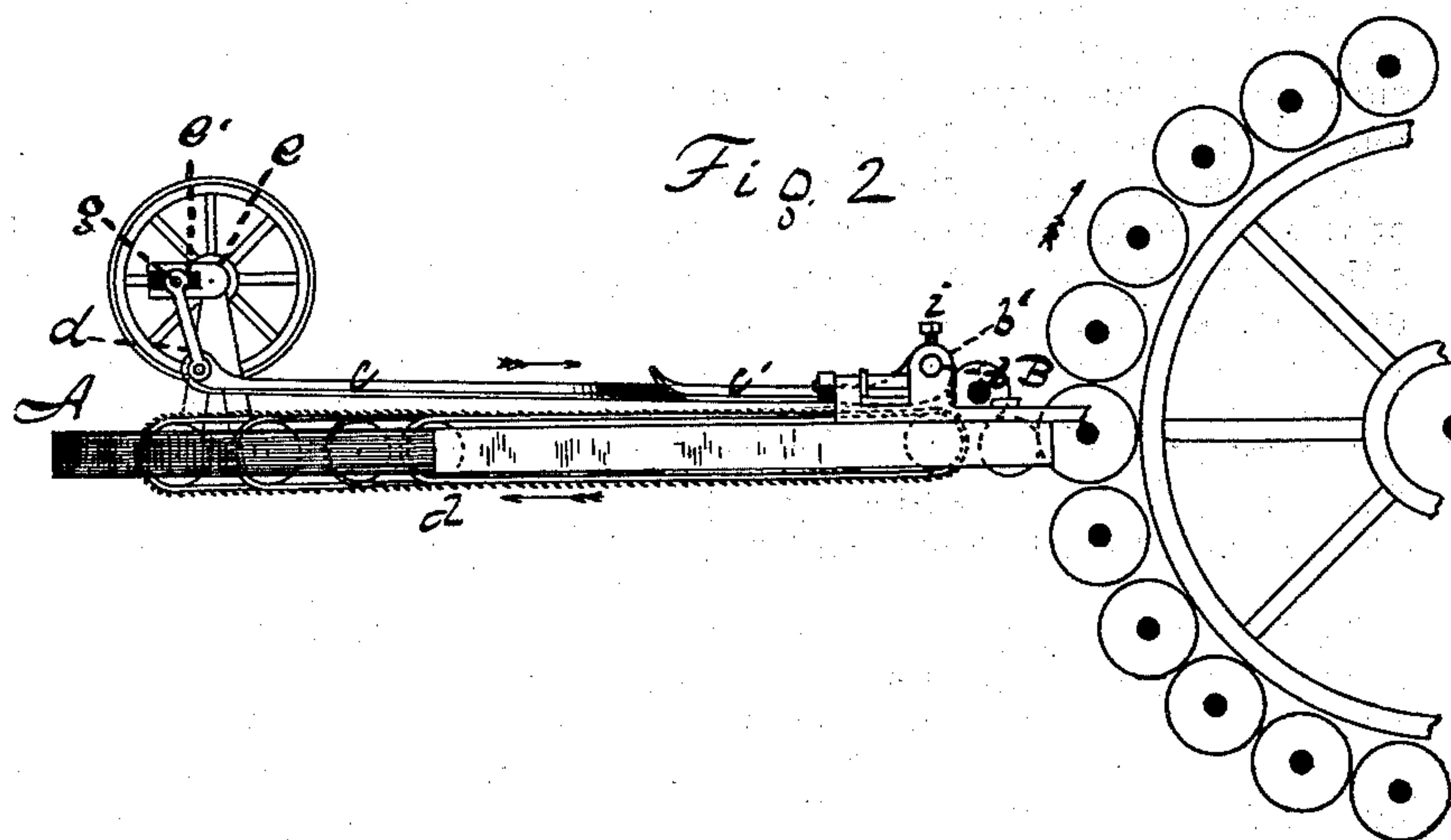


Fig. 2

Witnesses.

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## IMPROVEMENT IN FEEDING MECHANISMS FOR CARDING-MACHINES.

Specification forming part of Letters Patent No. **156,064**, dated October 20, 1874; application filed June 2, 1874.

*To all whom it may concern:*

Be it known that I, BOZIL S. ROY, of Rockville, in the county of Tolland and State of Connecticut, have invented certain new and useful Improvements pertaining to Feeding Mechanism of Wool-Carding Machines, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a top view of mechanism embodying my said improvements. Fig. 2 is a side view of the same with the addition of a part of the carding-cylinder.

My invention is a device for causing the rolls of wool to lie undisturbed in their relative positions as they move up to the carding-cylinder upon endless aprons, and yet permit the wool to readily leave the endless apron when it comes to the cylinder; and the invention consists in an arm or arms made to rise and fall over and upon an endless apron or aprons bearing spike-teeth, and carrying the rolls of wool.

The letter *a* indicates a series of endless aprons, side by side, similar to the aprons heretofore in use for this purpose. The rolls of wool are spread upon these aprons at the end A by a traverse mechanism of the common or any other kind. The endless aprons, moving in the direction indicated by the arrows, carry the wool to the end B, and there deliver it to the carding-cylinder.

In my improved construction the endless aprons—one or more, but preferably all—have

short spikes or teeth projecting from them, slanted toward the end A, as you look at the upper fold of the apron. Near the end B is hung a shaft, *b*, in bearings *b'*, and on this are hung one or more vibrating arms *c c'*, preferably two in number, and one at each side, as shown in the drawings. These arms are made to vibrate up and down by the pitman *d*, pivoted at one end to the arm *c*, and at the other end to the crank *e* upon the shaft *f*, to which rotary motion is given by any proper means. The length of their vibration is regulated by having the crank-pin *g* adjustable in the slot or way *e'* toward or from the axis of rotation. Each of the arms *c c'* overlies and play upon one of the endless aprons carrying teeth or spikes, and, as the rolls of wool come under their operation, they are gently tamped or pressed down upon the toothed aprons and held in position.

The arms *c'* can be attached to the shaft *b* by set-screws *i*, so that they can be moved along on the shaft, and set to operate on any desired one or more of the toothed aprons.

I claim as my invention—

The combination of the toothed aprons *a* (one or more) with the arms *c c'*, (one or more,) having a vibratory motion given thereto, substantially as described, and for the purpose set forth.

BOZIL S. ROY.

Witnesses:

WM. W. ANDROSS,  
ROBERT VANSTINE.