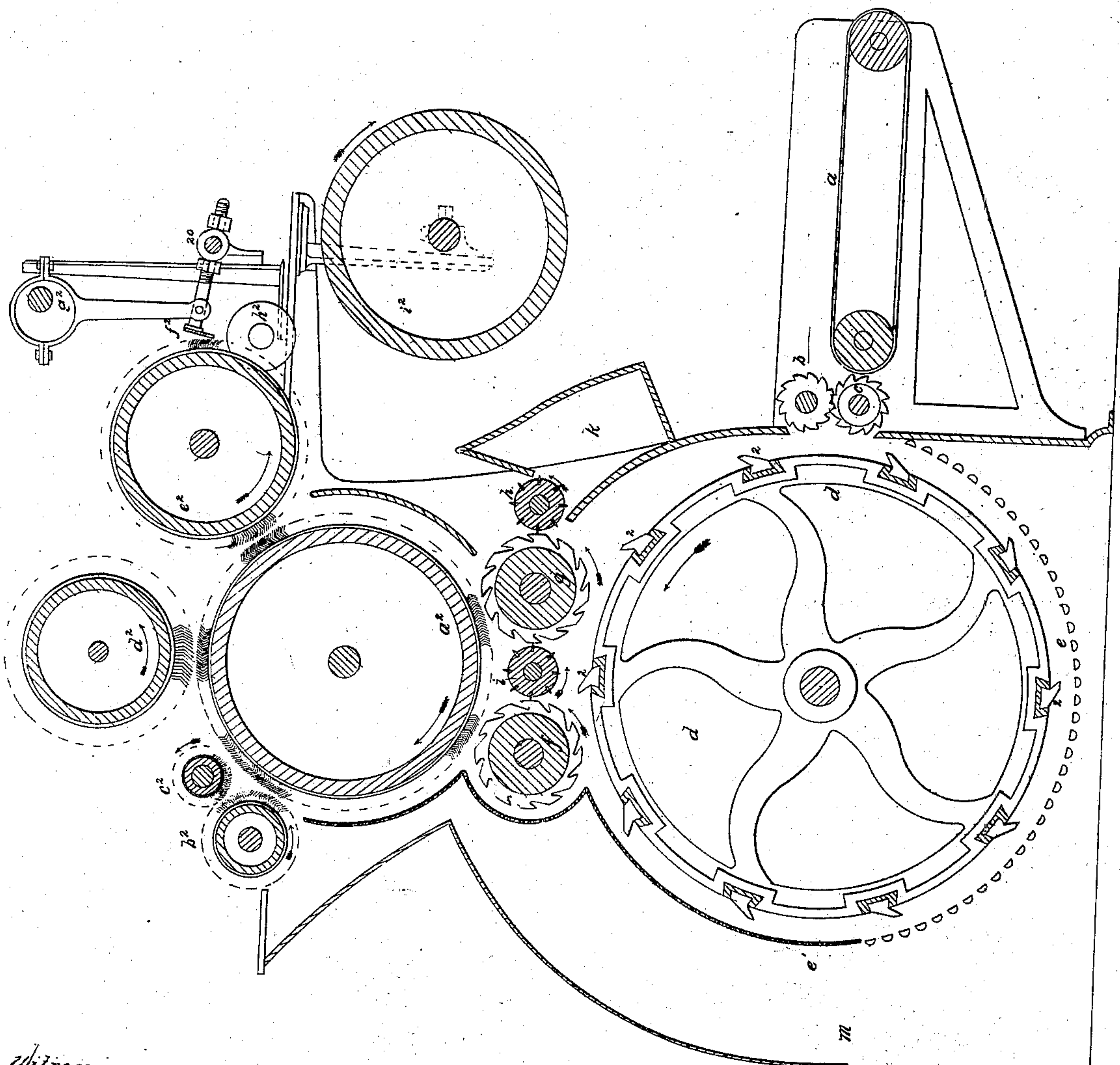


S. R. PARKHURST.
MACHINE FOR CLEANING WOOL.

No. 67,901.

Patented Aug. 20, 1867.



Witnesses:
Chas. Smith
Geo. S. Mack

Inventor:
S. R. Parkhurst
per L. H. Smith
Atty.

United States Patent Office.

STEPHEN R. PARKHURST, OF BLOOMFIELD, NEW JERSEY, ASSIGNOR TO
EMILY R. PARKHURST, OF SAME PLACE.

Letters Patent No. 67,901, dated August 20, 1867.

IMPROVEMENT IN MACHINE FOR CLEANING WOOL.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, STEPHEN R. PARKHURST, of Bloomfield, in the county of Essex, and State of New Jersey, have invented, made, and applied to use, a certain new and useful Improvement in Machinery for Cleaning Wool, Cotton, &c.; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein I have represented a vertical section of my said machine.

This is an improvement upon the machine for which Letters Patent were granted to me July 24, 1866, and like letters of reference are used on my present drawing as are used upon the drawing accompanying the aforesaid Letters Patent to indicate like parts, and reference is hereby expressly made to the said Letters Patent for a description of the construction and operation of said parts.

The nature of my present invention consists in a carding mechanism combined with the picking-cylinder and cleaning devices shown in the aforesaid Letters Patent, whereby the fibrous material is still further cleaned and subjected to a carding operation that renders the fibre adapted to delivery in the form of a sliver or bat, thus enabling me to dispense with the carding machines heretofore employed for forming the material into slivers or bats after the same has been picked or cleaned in a separate machine.

In the drawing, *a* is the apron; *b c*, the feed-rollers; *d*, the picker-cylinder; *e*¹, the screen; *e*, the grating; *m*, the suction air-trunk; *f* and *g*, the steel-ring cylinders; *h* and *i*, the strippers, and *k* the receptacle, all substantially the same as in my aforesaid Letters Patent.

I employ a card-cylinder, *a*², to remove the fibrous material from the cylinders *f* and *g* and carry the same up to the stripper *b*² and worker *c*², acting to open the wool in a manner corresponding to the stripper and worker in carding machines. There may be more than the one pair of rollers, *b*² and *c*², if desired. The fancy *d*² loosens the fibres on the cylinder *a*², in order that they may be taken by the doffer *e*², and from that delivered by the comb-plate *f*², vibrated by the eccentric and rod *g*², and moving on the shaft 20. The fibre delivered by the comb *f*² may be delivered in the form of a sliver through the revolving head *h*², or wound in the form of a bat upon the roller *i*². The respective cylinders and rollers are revolved in the direction of the arrows on the drawing, and the surface speed is to be in the usual proportions. The respective cylinders and rollers are to be sustained in suitable frames and pulleys, and belts or gearing employed to drive them in any convenient manner. And as these means are well known, and may be varied as circumstances require, are not further detailed or described.

This combination of mechanism enables the manufacturer to dispense with one card in a set of cards, thus saving the space occupied thereby, the handling of the wool, and delivers the fibre in a condition better adapted to the subsequent operations.

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

1. The carding-cylinder *a*², in combination with the cylinder *f* or *g*, stripper *h* or *i*, and picker-cylinder *d*, substantially as and for the purposes specified.

2. I claim the doffer *e*², in combination with the mechanism substantially as specified for opening and cleaning wool or other fibre, whereby the said fibre is delivered from the picking or cleaning mechanism in the form of a sliver or bat, substantially as set forth.

In witness whereof I have hereunto set my signature this 18th day of February, A. D. 1867.

S. R. PARKHURST.

Witnesses:

CHAS. H. SMITH,
GEO. D. WALKER.