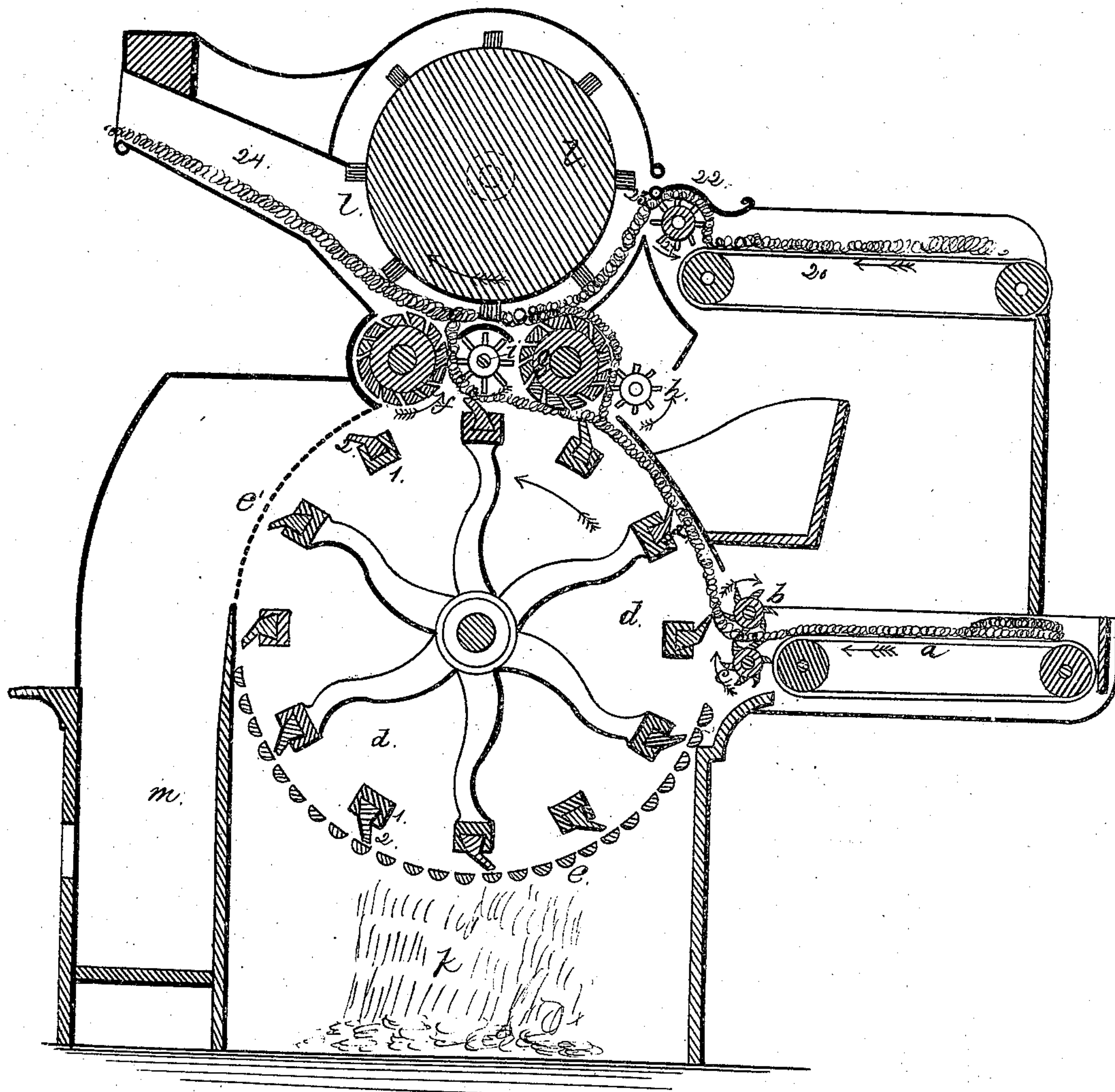


S. R. Parkhurst.
Wool Picker.

N^o 98,704.

Patented Jan. 11, 1870.



Witnesses:
Chas. Smith
Geo. D. Walker

Inventor:
S. R. Parkhurst
per L. W. Perrell
Atty.

United States Patent Office.

STEPHEN R. PARKHURST, OF MONT CLAIR, NEW JERSEY, ASSIGNOR TO
EMILY R. PARKHURST AND WARREN H. HOLT, OF SAME PLACE.

Letters Patent No. 98,704, dated January 11, 1870.

IMPROVEMENT IN PICKERS FOR 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 Mont Clair, in the county of Essex, and State of New Jersey, have invented, made, and applied to use, a new and useful Improvement in Pickers for Wool, &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 the machine is represented by a vertical section transversely of the rollers and cylinders.

This invention relates to a means for feeding into the picker, and thereby mixing with the wool, during the last portions of the picking-operation, the waste from carding-machines, wool of different grades or color, so that the different qualities are mixed with uniformity, and delivered together. By this means, the loss of fine short fibre is prevented, because the same would be taken away with the refuse matter, if it were supplied with the wool as fed into the picker.

This invention is an addition to and improvement upon that for which Letters Patent were granted to me, July 24, 1866, No. 56,675, and a reference is hereby made to the construction, operation, and peculiarities of the following parts:

In the drawing—

a is the apron; *b c*, the toothed feed-rollers; *d*, the picker-cylinder; *2*, the teeth in the bars *1*; *e*, the screen below the picker; *f* and *g* are toothed cylinders, taking the wool from *d*; *h* and *i* are strippers; *k*, the receptacle for the motes and foreign substances; *e'* is a screen adjacent to the exhaust-trunk *m*, through which the dust is drawn, by the air, to an exhaust-blower; all substantially as in aforesaid patent.

The brush *l* is not made with bristles, as in the original machines of this character, but I make use of fine steel wires of the same length as the bristles, and drawn in with them into the holes, and secured therein.

When the bristles are used alone, the wool or other fibre is rolled up, into loose lumps, upon the cylinders

f and *g*, previously to being thrown off by the delivery-blast from the blower.

By the use of the steel wires associated with the bristles, and lying straight with them, the flocks of wool or other fibre are pulled off the toothed cylinders, and delivered in an open loose condition, instead of being rolled up.

I apply the feeding-belt *20*, for supplying the waste from carding-machines, or other short fibre, and *21* is a toothed roller, carrying the same up and beneath the curved guard *22*, that is hinged, at *23*, so that it rests upon and equalizes the bat of fibre carried into the machine, and the brush-blower *l* takes the fibre from the roller *21*, and carries it to the wool or fibre on the cylinders *f g*, mixing the same with such fibre in a uniform manner, as the two qualities of wool are delivered through the trunk *24*.

By this means, the capacity of the picker is increased, a separate carding and mixing-machine dispensed with, and the fibre delivered is in the best condition for future carding and manufacture into fabrics, the wool being so intimately mixed while in the light-flocular condition.

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

1. The feeding-belt *20* and toothed roller *21*, in combination with the delivery-brush and picker, as specified, so as to mix a second quality of wool into the wool that is being delivered from the picker, as set forth.

2. The delivery-blower *l*, made with brushes, composed partially of straight wires, in combination with the toothed cylinder *f* or *g*, for the purposes and as set forth.

In witness whereof, I have hereunto set my signature, this 31st day of May, A. D. 1869.

S. R. PARKHURST.

Witnesses:

CHAS. H. SMITH,
HAROLD SERRELL.