

N. L. COLE.

Hair Picker.

No. 100,604.

Patented March 8, 1870.

Fig. 1.

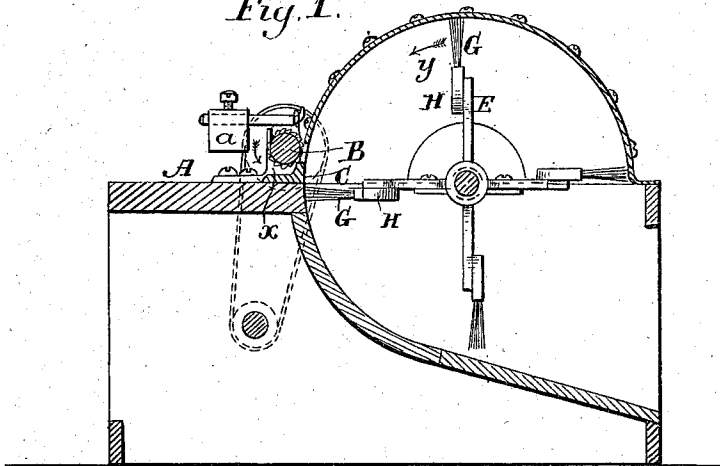


Fig. 2.

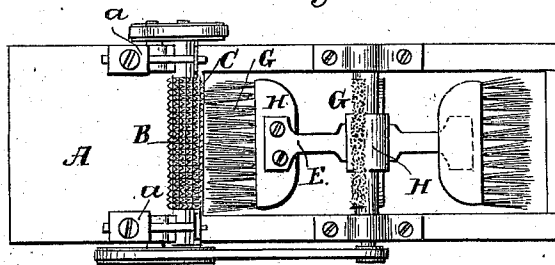
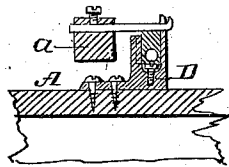


Fig. 3.



Witnesses:

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United States Patent Office.

NOAH L. COLE, OF NORWICH, CONNECTICUT, ASSIGNOR TO HIMSELF AND
ALBERT N. UPHAM, OF SAME PLACE.

Letters Patent No. 100,604, dated March 8, 1870.

IMPROVEMENT IN MACHINE FOR PICKING CURLED HAIR.

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, NOAH L. COLE, of Norwich, in the county of New London, and State of Connecticut, have invented a new and useful Improvement in Machines for Picking Curled Hair, and other like or curled fibrous materials, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings forming part of this specification, and in which—

Figure 1 represents a sectional view of a machine constructed in accordance with my improvement;

Figure 2, a plan of the same, with the upper portion of the case of the picking-spider or cylinder removed; and

Figure 3, a sectional view through one of the bearings of a toothed feed-roller in said machine.

Similar letters of reference indicate corresponding parts.

My improvement relates to machines for opening and picking curled hair and other like or curled fibrous material, such, for instance, as moss, put up in rope form.

In this connection my invention importantly differs from other machines for operating on or picking hair rope to render the hair available for the various purposes of trade, which, in its merchantable form of a rope, it is not, and although, as in certain other machines for said purpose, I use a blast, such is differently applied, and not used to accomplish the actual picking of the rope. Thus, in my improved machine, I effect the opening or picking of the hair by a revolving brush or brushes, and so arrange the latter on the outer periphery of the picking-spider or cylinder, or combine with the brushes fan-blades which may be made by a proper construction and presentation of the brush-stocks as that a blast is created sufficiently strong to clear the machine, and keep the brushes from clogging, while the latter are acting upon and separating the hair.

Furthermore, the hair is introduced to the brushes by the combined action of a toothed feed-roller and shell, or stationary lip, the said feed-roller being made capable of adjustment relatively to the latter by means of set-screws.

Such feeding devices secure, as I have found by experiment, the necessary proper hold in the hair for the picking action on it of the brushes, which accom-

plish their function in a soft or gentle, yet positive and most effective manner, while the clogging or choking which is incidental to blast-picking actions is avoided.

In view of these remarks, a brief description of the parts, in the form they are represented in the annexed drawing, will suffice to further explain the distinguishing principles or features of my invention.

In said drawing—

A represents the feed-table, over which the hair ropes are fed.

B is the toothed feed-roller, extending across or over said table at its delivery end, and having a positive rotary motion communicated to it, in direction of the arrow *x*.

C is the shell or stationary lip, over which and between it and the feed-roller, the hair ropes are fed to the picking-spider or cylinder, the feed-roller B, which is free to rise subject to the control of weights *a a*, acting on its bearings, being adjustable by set-screws D, applied to said bearings for the purpose of setting the feed-roller at any required distance from the shell or lip C.

The picking-spider or cylinder E, which is arranged to rotate within a suitable case or chamber, F, in the direction indicated by the arrow *y*, is made up of a brush or brushes, G, and inner fan-blades or broad brush-stocks H, the brushes G being set to rotate or operate in close but free proximity to the feed-roller and shell or lip, for the purpose of picking the rope by positive contact, while the fan-blades H are operating to clear the machine and keep the brushes from clogging.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The combination and arrangement of the revolving brushes G, the toothed feed-roller B, and lip C, for operation essentially as set forth.

2. The adjusting-screws D to the bearings of the toothed feed-roller B, in combination with the levers and their weights *a*, substantially as and for the purpose set forth.

NOAH L. COLE.

Witnesses:

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