

D. CROWLEY.

Improvement in Machines for Burring Wool.

No. 124,119.

Patented Feb. 27, 1872.

Fig. 3.

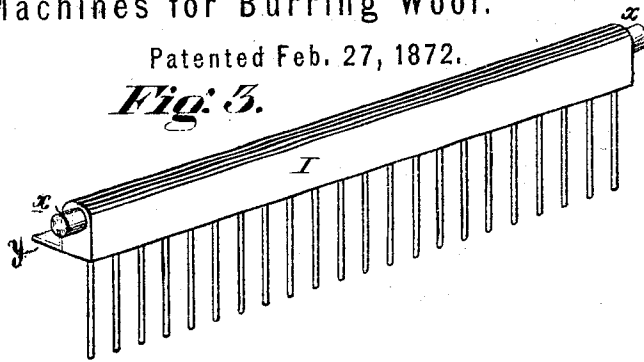


Fig. 1.

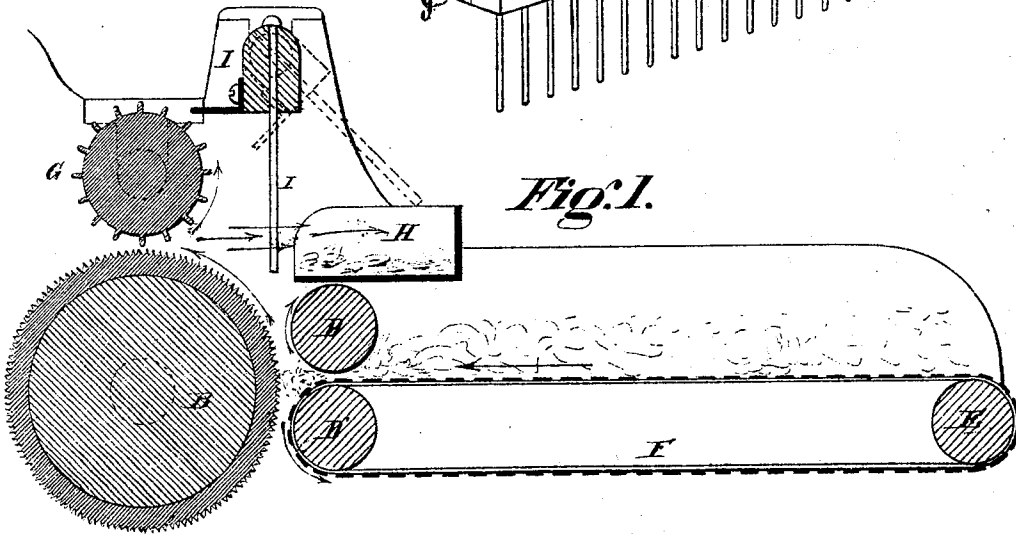
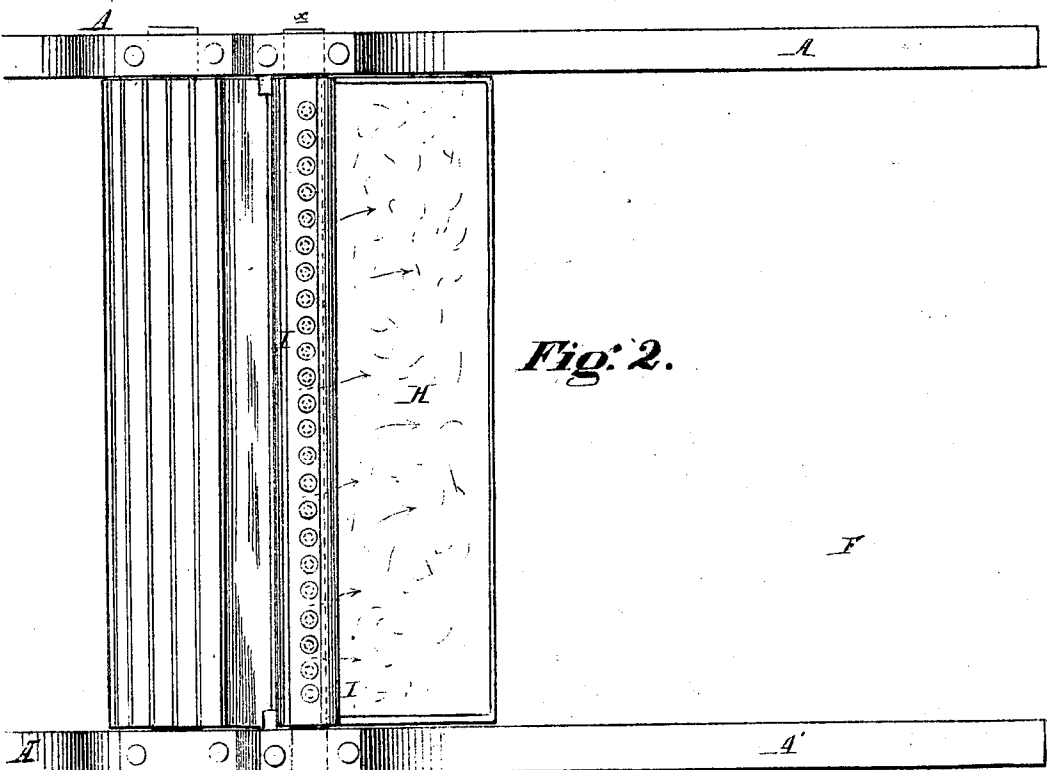


Fig. 2.



Witnesses {
Geo. B. Harding.
John Parker

Daniel Crowley
by his Attys
Howson and Son

UNITED STATES PATENT OFFICE.

DANIEL CROWLEY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
HIMSELF AND ISAAC A. STRINGFELLOW, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR BURRING WOOL.

Specification forming part of Letters Patent No. 124,119, dated February 27, 1872.

Specification describing an Improvement in Burring-Machines, invented by DANIEL CROWLEY, of Philadelphia, Pennsylvania.

My invention consists of a device combined with the burring machine, as fully described hereafter, for the purpose of intercepting particles of wool projected outward with the burs so that such particles may fall back upon the burring-cylinder, instead of passing off with the burs as usual.

In the drawing, Figure 1 is a vertical section of part of the burring-machine, with my improvement. Fig. 2, a plan view; and Fig. 3 a perspective view of the part to which my invention more especially relates.

B is an ordinary burring-cylinder having journals adapted to bearings in the opposite side frames A and A'. D and D' are the feed-rollers; F, an endless slatted apron passing around the roller D'; and around a roller E and G' is the ordinary winged beater arranged above the burring-cylinder.

As the above-mentioned parts are common to burring-machines it will be sufficient to remark that the wool is carried by the endless apron F to the rollers D and D', and by the latter directly to the burring-cylinder B, which carries the wool around to and beneath the beater G. The beater G strikes whatever burs or other foreign particles are contained in the wool, and throws them into the receptacle H; but particles of wool are frequently projected with the burs into the receptacle, to prevent which is the object of my invention. I place a comb, I, in a vertical, or nearly vertical position, above the burring-cylinder, and in front of the beater, so that its teeth will intercept the current of burs and fibers of wool projected by the beater towards the receptacle. While the comparatively-solid burs will pass freely between the teeth of the comb, the lighter fibers of wool will be intercepted in their course toward the receptacle H by the teeth, and will, owing to the vertical position of the said comb above the burring-cylinder, fall upon the latter.

This comb may be permanently fixed in its place; but I prefer to provide it with journals *xx*, adapted to bearings in the opposite frames A and A', so that the comb can be raised to the position shown by the dotted lines in Fig. 1, so that should a bur of unusual size catch between the teeth of the comb I can raise the latter over the receptacle H, as shown, and push the said bur into the receptacle.

A guard, *y*, is secured to the comb or screen, and projects partially over the beater for the purpose of preventing burs or particles of wool from being thrown outward from the machine by the said beater.

I am aware that finger-bars somewhat resembling the comb I have been used in connection with machinery for burring and cleaning wool in the preliminary treatment of the latter, and before it is in a fit state to be carded; but such finger-bars have been arranged beneath the burring-cylinder, and in a horizontal position, necessitating the removal of the wool by hand, or the employment of a special fan for the purpose; the fan also being objectionable, inasmuch as the current caused by the fan is interrupted by that caused by the beater, and will carry away many particles of fiber; whereas in my invention the comb is arranged in a vertical, or nearly vertical position, above the burring-cylinder, so that the fibers of wool shall drop from the comb directly onto the cylinder.

I claim as my invention—

The burring-cylinder B, beater G, and comb I, all constructed as specified, and arranged relatively to each other and to the feed-rolls D and D' and bur-box H, as and for the purpose herein described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL CROWLEY.

Witnesses:

WM. A. STEEL,
HARRY SMITH.