

*Z. Parkhurst.
Burring Mach.*

N^o 62,877.

Patented Mar. 12, 1867.

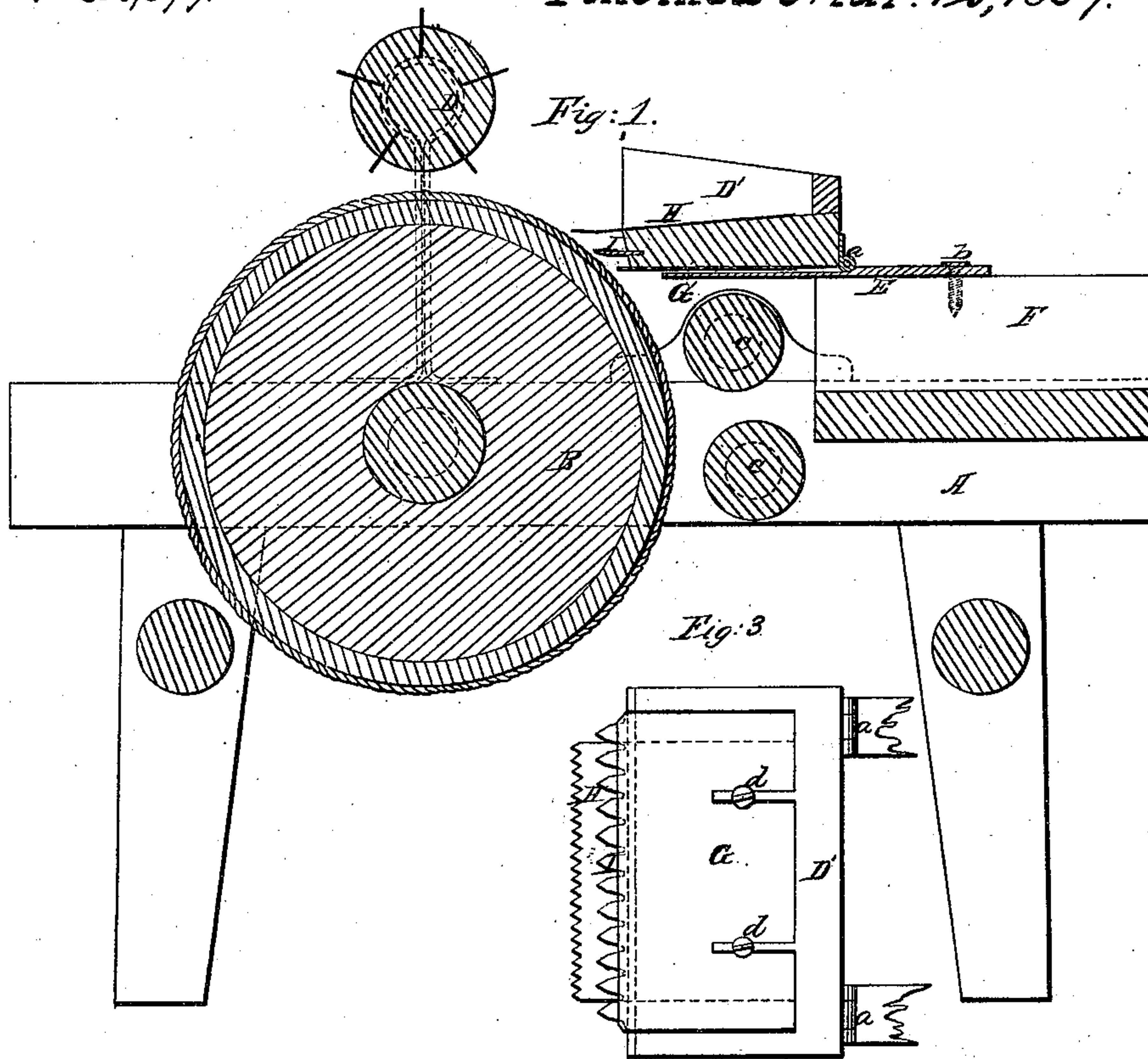
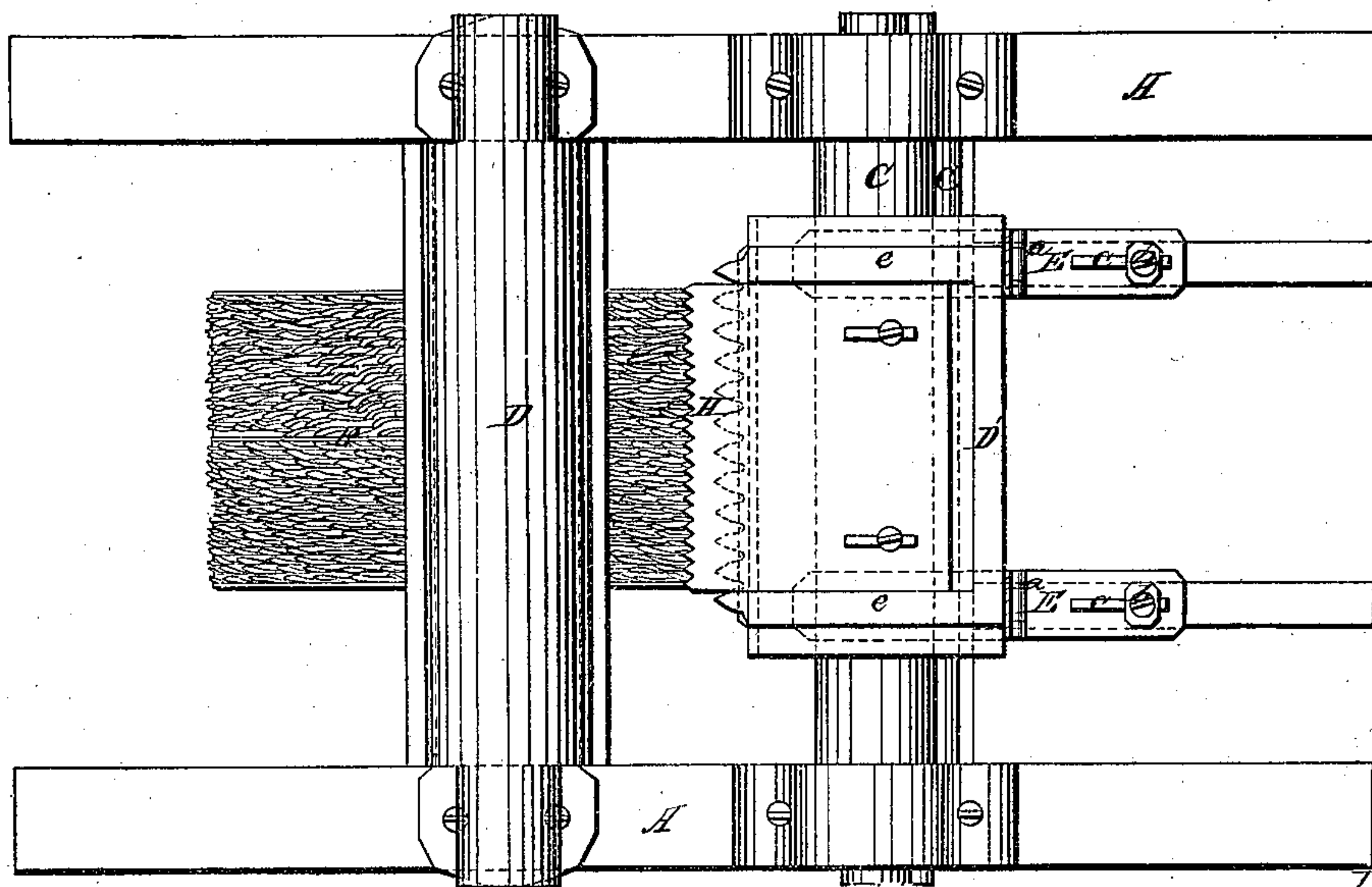


Fig. 2.



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United States Patent Office.

ZIBA PARKHURST, OF MILFORD, MASSACHUSETTS.

Letters Patent No. 62,877, dated March 12, 1867.

IMPROVEMENT IN MACHINE FOR REMOVING BURS FROM WOOL.

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

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, ZIBA PARKHURST, of Milford, in the county of Worcester, and State of Massachusetts, have made a new and useful invention having reference to Machines for Removing Burs from Wool; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a vertical and longitudinal section of it.

Figure 2 is a top view of a burring machine provided with my invention.

Figure 3 is an under side view of the bur box of such machine with my improvement or improvements connected therewith.

In such drawings, A denotes the frame of the machine; B is the main card or toothed cylinder; C C, the feed-rollers; and D the rotary beater or bur discharger, such being the parts common to an ordinary burring machine. D' is what I term the bur box, which is placed over the feed-rollers and near to the cylinder B, and is connected by hinges, *a a*, to two adjustable slide-bars, E E, which rest on the top of the cheek-pieces or guides F F, and are connected thereto by set-screws, *b b*, which go down through slots, *c c*, in the said bars, and screw to the guides F F. The hinges enable the bur box to be turned from a horizontal position back into a vertical or somewhat inclined one, for the purpose of facilitating the removal of the burs or fibrous or other matters which may collect on it. This bur box is open in front and closed in rear. To its bottom I apply an adjustable plate G, fixed to the box by means of screws or devices, shown at *d d*, by which it may be adjusted so as to bring its front edge close to or nearly against the teeth of the main cylinder. This plate I term the induction plate, its object being to press the wool into the spaces between the teeth of the cylinder of the fibres of the wool or material to be treated. I also apply to such bur box one or more combs or toothed plates, H I, which I arrange over the induction plate in the manner as represented in the drawing. The teeth of these combs may be of such fineness as may be necessary, the object of the combs being to disturb or loosen up the wool which may lie on the surface of the cylinder, so as to cause such, and particularly loose filaments of such, to be caught by the teeth of the cylinder. The combs and the induction plate have been found to be excellent additions to the burring machine, as they operate to prevent much waste of the fibres, and cause the main cylinder to perform its duty to much better advantage than it will without such appliances, or either of them. Each comb may have adjusting devices by which it may be set in proper relation with the cylinder, or the comb may be without such, but I prefer that the upper of the two should at least have such adjustments. By applying the induction plate and combs to the bur box they may be turned up with it, so as to enable an attendant to gain ready access to the feed-rollers when necessary.

In the operation of my invention the fibres of the material containing the burs after being drawn from the feed-rollers will, by the induction plate, be crowded closely up to and between the teeth of the cylinder B, and, should any of the fibrous material after this project beyond the teeth, such material will be acted on by the combs, and by them will be turned up and from the burs pressed in between the teeth in order that the beater may more readily detach the burs with as little of the fibrous material adhering to them as possible. The purpose of the bur box being well understood needs not be herein described.

I make no claim to a burring cylinder, however it may be constructed; nor do I claim any other part of the machine except it be the bur box and its appliances.

What I do claim as my invention is as follows:

I claim the application of the induction plate G, or its equivalent, to, or its combination with, the burring machine, so as to operate with the main cylinder thereof, substantially as and for the purpose specified.

I also claim the combination and arrangement of one or more combs with the burring machine, so as to operate with the main cylinder thereof, substantially as and for the purpose hereinbefore explained.

I also claim the application of the induction plate and the combs, or either of them, to the bur box, so as to be movable therewith, as described.

ZIBA PARKHURST.

Witnesses:

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F. P. HALE, Jr.