

Earl & Holcroft,  
 Apparatus for Oiling Wool,  
 No 47,938  
 Patented May 30, 1865.

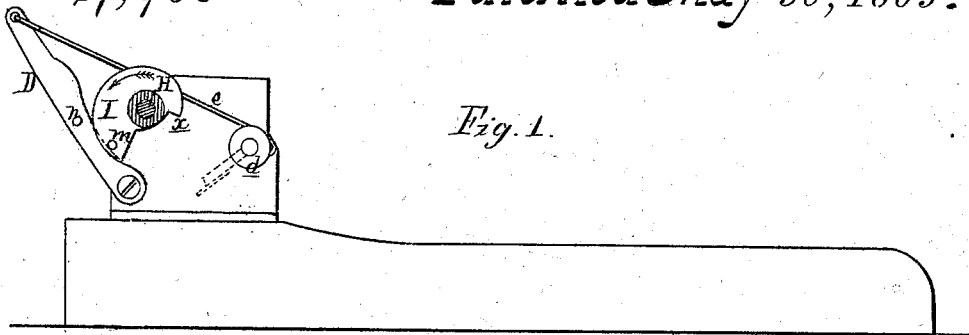


Fig. 1.

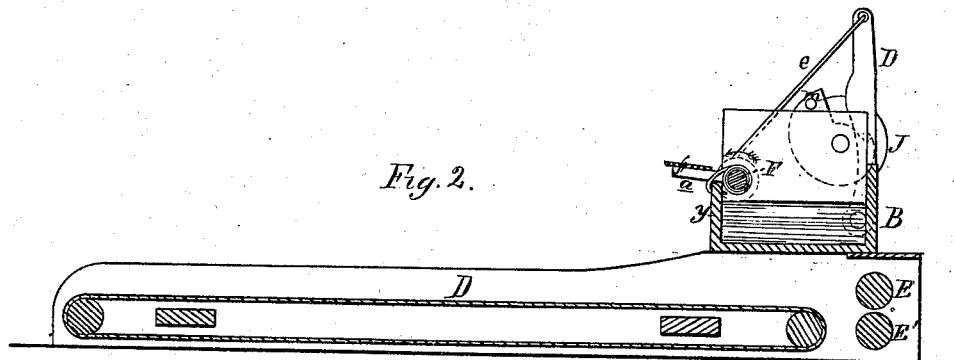


Fig. 2.

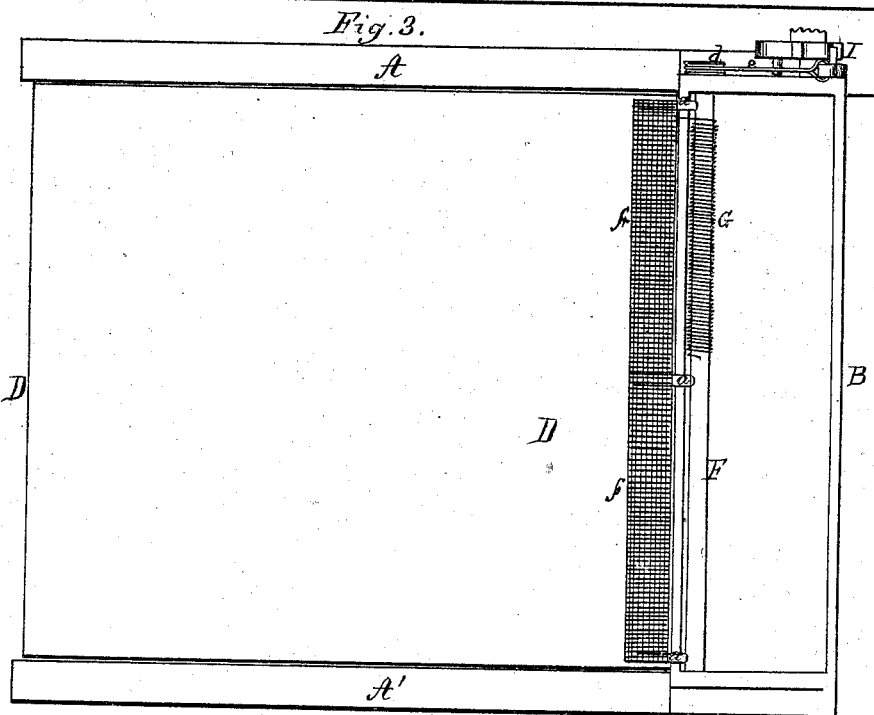


Fig. 3.

Witnesses,  
 Wm. Albert Shaw  
 John Parker

Inventors  
 B. A. Earl  
 H. Holcroft  
 H. Howland Atty.

# UNITED STATES PATENT OFFICE.

B. A. EARL, OF PHILADELPHIA, AND HENRY HOLCROFT, OF MEDIA, PA.

## IMPROVEMENT IN APPARATUS FOR OILING WOOL.

Specification forming part of Letters Patent No. 47,938, dated May 30, 1865.

### *To all whom it may concern:*

Be it known that we, B. A. EARL, of Philadelphia, Pennsylvania, and HENRY HOLCROFT, of Media, Delaware county, Pennsylvania, have invented certain Apparatus for Oiling Wool; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Our invention consists of mechanism, fully described hereinafter, for saturating wool with lubricating material as it traverses toward the feed-rollers of a carding-engine or picker.

In order to enable others skilled in the art make and use our invention, we will now proceed to describe its construction and operation.

On reference to the accompanying drawings, which form a part of this specification, Figure 1 is a side view of our apparatus for oiling wool in carding-engines, pickers, &c.; Fig. 2, a transverse section, and Fig. 3 a plan view.

Similar letters refer to similar parts throughout the several views.

A and A' represent portions of the side frames of a carding-engine, to which is secured the box or reservoir B, containing the lubricating material. D is the usual endless band of slats, on which the wool is placed, and by which it is conveyed to the feed-rollers E and E'. A shaft, F, is arranged to turn in the opposite ends of the box, and from this shaft project arms *a*, carrying a strip of wire-gauze. A spiral spring, G, coiled round the shaft, tends to turn the same in the direction of the arrow, Fig. 2, and to force the arms *a* against the front edge, *y*, of the box B. On one end of the shaft, outside the box, is a pulley, *d*, to the periphery of which is secured one end of a chain or cord, *e*, the other end being connected to the lever D, which is hung to the end of the box, and from the latter projects a pin, H, carrying a cam, I, and a pulley, J, to which a rotary motion in the direction of the arrow, Fig. 2, is imparted by a band or by any suitable system of gearing

from any moving part of the carding-engine or picker. As the cam I revolves, its projecting pin *m* bears against the lever D and moves it to the position shown in Fig. 1, thereby turning the shaft F in a direction contrary to that pointed out by the arrow, Fig. 2, and causing the wire-gauze *f* to be immersed in the lubricating material contained in the box B. As the cam I continues to revolve, its pin *m* will move away from the lever D; but a pin, *n*, on the latter will bear against the edge of the cam, so that the gauze will remain immersed in the lubricating material until the shoulder *a* on the cam passes the pin *n*, when the lever will be released and the spring G will turn the shaft rapidly in the direction of the arrow, Fig. 2, and cause the arms *a* to strike the front edge, *y*, of the box with such force that the lubricating material carried up by and contained in the meshes of the gauze will be spirted in a number of small drops onto the wool beneath. This movement of the shaft F is continued as the wool is conveyed by the endless band of slats toward the feed-rollers, so that the wool must of necessity be thoroughly and evenly saturated with the lubricating material before it reaches the carding-engine or picker.

A series of wires arranged in the form of a comb may be used in place of the gauze.

We claim as our invention and desire to secure by Letters Patent—

The combination of a box or reservoir, B, containing lubricating material, with a shaft, F, carrying a strip of wire-gauze or its equivalent, and having the within-described movement imparted to it by the devices herein described, or the equivalents to the same, for the purpose specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

B. A. EARL.  
HENRY HOLCROFT.

Witnesses:

CHARLES E. FOSTER,  
JOHN WHITE.