J. Eccles.

Wool Oiling Mach.

No. 47,767. Patented May 16, 1865.

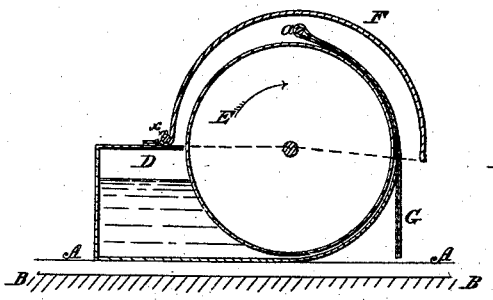
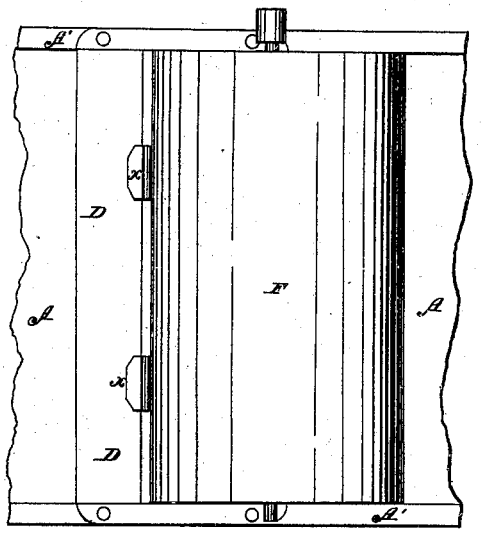


Fig. 1.

Fig. 2.



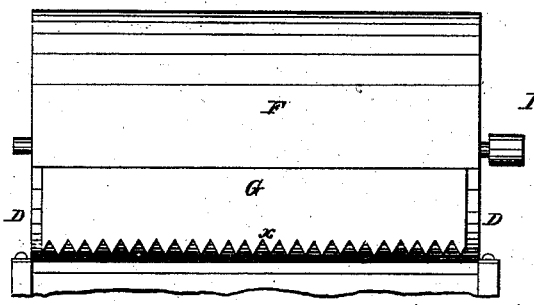


Fig. 3.

Witnesses,
Wm. Alvin Stuart
W. R. Delany.

Inventor.
J. Eccles
By his Atty
Henry Howson

UNITED STATES PATENT OFFICE.

JAMES ECCLES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND ROBT. KERSHAW, OF SAME PLACE.

MACHINERY FOR OILING WOOL IN CARDING-MACHINES.

Specification forming part of Letters Patent No. **47,767**, dated May 16, 1865.

To all whom it may concern:

Be it known that I, JAMES ECCLES, of Philadelphia, Pennsylvania, have invented a novel Mode of Lubricating Wool in Carding-Engines; and I 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.

My invention consists in lubricating wool in carding-engines by means of a strip or apron of textile fabric, to which a constant supply of lubricating material is transferred from a reservoir by means of a revolving drum or roller, all substantially as described hereinafter, the lubricating material trickling from the lower edge of the apron onto the fleece, which is thus thoroughly saturated as it traverses toward and before it reaches the card-rollers.

In order to enable others to practice my invention I will now proceed to describe the manner of carrying it into effect.

On reference to the accompanying drawings, which forms a part of this specification, Figure 1 is a vertical section of my apparatus for oiling wool in carding engines; Fig.2, a plan view, and Fig. 3 a front view.

Similar letters refer to similar parts throughout the several views.

A and A′ represent portions of the opposite side frames of a carding-engine, the line B representing the upper surface of the traversing feed-table or endless apron of slats common to machines of this class. To the opposite side frames, A and A′, and above the table B, is secured a reservoir, D, containing a supply of oil or other lubricating material, and in this reservoir a cylinder or drum, E, is caused to revolve in the direction of the arrow, Fig. 1. A shield, F, is hinged to the reservoir at *x*, and, passing over but not in contact with the drum, protects the same from dust and dirt. Within the shield is a rod, *a*, to which is secured one edge of an apron of muslin or other equivalent textile fabric, which passes partly around and in contact with the drum and hangs down to within a short distance above the feed-table.

The wool passes between the usual feed-rolls and takes its place in the condition of a uniform fleece on the feed-table B, with which it traverses beneath the reservoir to the card-rollers. In the meantime, as the drum E revolves in the direction of the arrow it carries with it a supply of the lubricating material from the reservoir and transfers that supply or the greater portion of the same, to the apron G, which soon becomes so charged with the oil or other lubricating material that the latter will pass down the apron and trickle from the serrated lower edge, *x*, of the same onto the traversing fleece of wool, which becomes thoroughly saturated with the oil, and is in a proper lubricated condition before it reaches the card-rollers.

It should be understood that the roller, reservoir, and apron are as long as the feed-table is wide.

I claim as my invention and desire to secure by Letters Patent—

Lubricating wool by means of a strip or apron of suitable textile fabric to which a continuous supply of lubricating material is transferred from a reservoir by means of a drum or roller or its equivalent all substantially as set forth.

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

JAMES ECCLES.

Witnesses:

HENRY HOWSON,

W. J. R. DELANY.