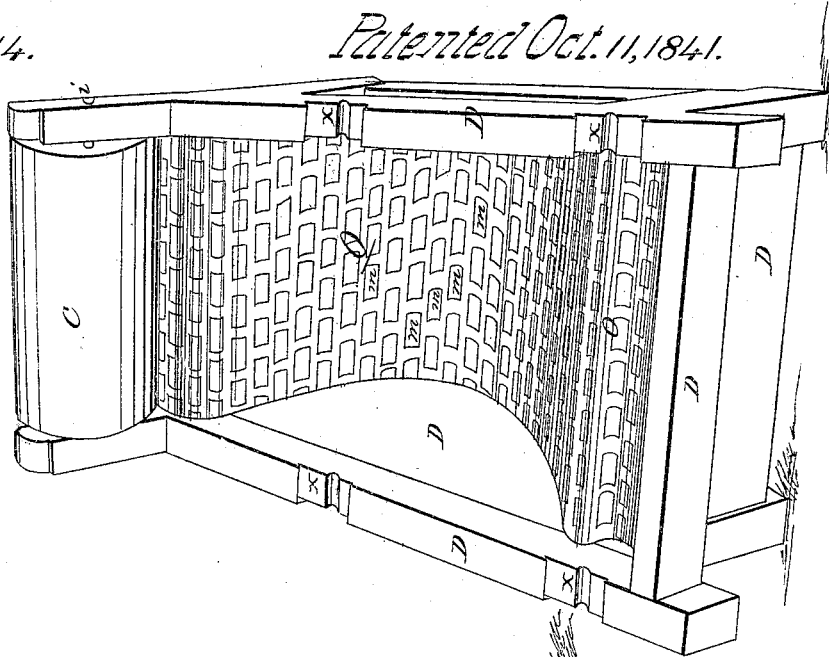


*J. Munroe.*  
*Carding Mach.*

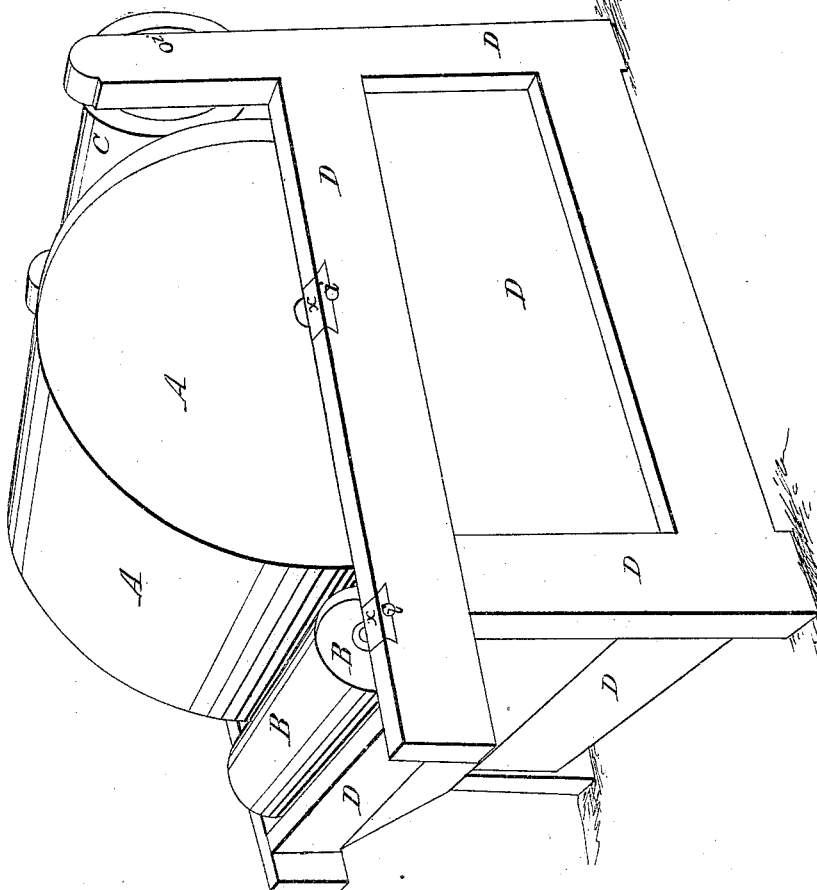
*N<sup>o</sup> 2,314.*

*Patented Oct. 11, 1841.*

*Fig. 2.*



*Fig. 1.*



# UNITED STATES PATENT OFFICE.

JOSEPH MUNROE, OF PALMER, MASSACHUSETTS.

IMPROVEMENT IN COTTON OR WOOL CARDING MACHINES, BY WHICH THE COTTON OR WOOL IS PREVENTED FROM FALLING TO WASTE.

Specification forming part of Letters Patent No. 2,314, dated October 11, 1841.

*To all whom it may concern:*

Be it known that I, JOSEPH MUNROE, of Palmer, in the county of Hampden and State of Massachusetts, have invented a new and improved mode of preventing cotton or wool from falling to waste from the carding-machine while in the operation of being carded; and I do hereby declare that the following is full and exact description.

The nature of my invention consists in providing the under side of the carding-machine with a screen or sieve in such a manner that the dirt, seed, and motes which the cotton or wool may contain may fall through the screen, while the cotton or wool is kept in contact with the cylinders of the carding-machine by means of the screen and not permitted to fall down under the machine and go to waste.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a cotton-carding machine, the screen being attached to the under side of the machine; therefore in this view it cannot be seen. Fig. 2 is a view of a cotton-carding machine with part of the machine removed, in which the screen or sieve is distinctly represented.

I construct my carding-machine in any of the known forms to which I apply the screen.

In Fig. 1, A is the main cylinder of a cotton-carding machine. B is the tumbler or licker-in. C is the doffer. D in the several

places where it occurs is the frame of the machine. *x* denotes the boxes, and *i* the gudgeons of the several cylinders of the machine.

In Fig. 2 the main cylinder A and the tumbler or licker-in B are removed and the screen O is brought to view. This screen O, I make of sheet-zinc or other suitable material by cutting small holes through the sheet or plate in the usual form of a screen or sieve. I then bend it (the screen O) into a circular form corresponding to the circles described by the main cylinder A and the tumbler or licker-in B and make it fast to the insides of the frame D, directly under the two cylinders A and B, observing to place it as near the surface of the cylinders A and B as may be without coming in contact with them.

In the operation of carding, the dirt, seeds, &c., contained in the cotton or wool will by the rotary motion of the cylinders A and B be driven through the holes or apertures (see Fig. 2) *m* in the screen O, while the cotton or wool will be retained upon the cylinders A and B, and thereby not permitted to go to waste.

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

The application to carding-machines of a screen which will permit the dirt, motes, &c., to escape without the cotton or wool, as herein described.

JOSEPH MUNROE.

Witnesses:

S. A. MAYNARD,  
THOS. J. CORNELL.