

J. McGRATH.

CLEARING PADS FOR CALENDER ROLLS.

No. 179,807.

Patented July 11, 1876.

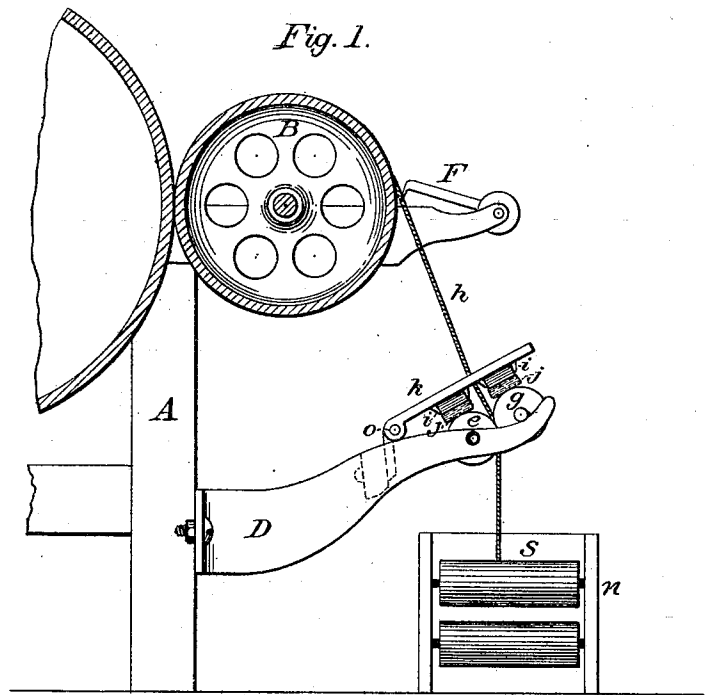
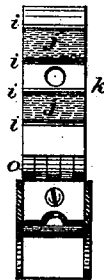


Fig. 2.



Attest:
Frank H. Arnold,
W. B. Congdon

Inventor:
John McGrath
by *Wm. Arnold*
Att'y.

UNITED STATES PATENT OFFICE.

JOHN McGRATH, OF FALL RIVER, MASSACHUSETTS.

IMPROVEMENT IN CLEARING-PADS FOR CALENDER-ROLLS.

Specification forming part of Letters Patent No. **179,807**, dated July 11, 1876; application filed May 3, 1876.

To all whom it may concern:

Be it known that I, JOHN McGRATH, of Fall River, in the county of Bristol and State of Massachusetts, have invented certain Improvements in Machines for Carding Materials for Textile Fabrics.

The following is a full and correct description thereof, reference being had to the accompanying drawings, and letters marked thereon.

The nature of this invention consists in combining with the calender-rolls of the card a narrow hinged plate, with an opening through it, for the passage of the web to the rolls, and having also attached to its under side clearing-pads, to keep the calender-rolls clean.

Figure 1 shows a vertical section of the back part of a card, with the plate and rolls. Fig. 2 shows the under side of the plate, with its clearing-pads.

A is a part of the frame of the carding-machine. B is the doffer-roll, and F the comb that takes the web from the doffer. An arm, D, attached to the card-frame, supports the calender-rolls *e g*, between which the web *h* passes to the conductor-belt S. *k* is a plate made in two parts, hinged together at *o*, and bolted by its rear portion to a flange in the

arm D. The front part of this plate has a trumpet-shaped opening through it, to guide the web into the rolls, and on its under side cleats *i i i*, forming dovetailed shaped recesses, to receive pieces of wood *j*, or other suitable substance, faced with cloth or other covering, that will detach the fibers of the web from the rolls, to which they are liable to stick, because of the oil in the material, and accumulate until they catch and injure the web.

The dirt, pieces of seeds, and hard knots that are jarred out of the web by the action of the comb are free to fall down on the top of the trough *n*, out of the way of the web. The plate *k*, being hinged, can be raised, and the pads cleared of the refuse that is caught.

Having thus described my improvement, what I claim as my invention, and desire to secure by Letters Patent, is—

In a carding-machine, the combination of the arm D and rolls *e g*, with the hinged plate *k*, with its clearing-pads *j j*, substantially as described, and for the purpose set forth.

JOHN McGRATH.

Witnesses:

HENRY S. FENNER,
C. F. CHASE.