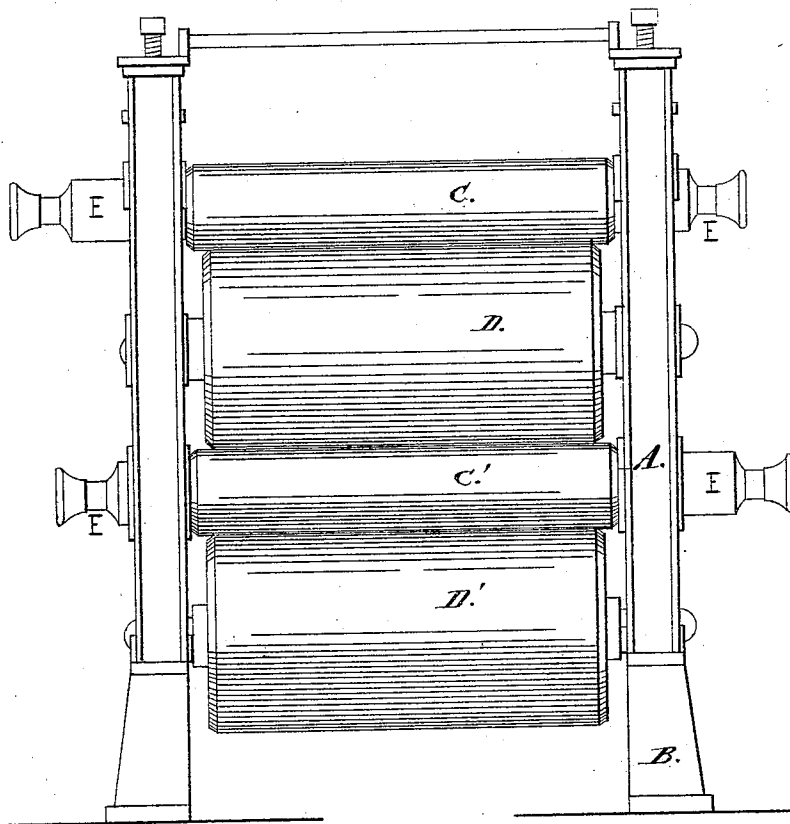


D. SCHOFIELD.
Calendering-Machines.

No. 142,872.

Patented September 16, 1873.



WITNESSES

Edmund P. Cochran.
(C. F. Walter)

INVENTOR

Daniel Schofield
by Francis D. Pastorius
his Atty in fact

UNITED STATES PATENT OFFICE.

DANIEL SCHOFIELD, OF GLOUCESTER, NEW JERSEY.

IMPROVEMENT IN CALENDERING-MACHINES.

Specification forming part of Letters Patent No. **142,872**, dated September 16, 1873; application filed March 28, 1873.

To all whom it may concern:

Be it known that I, DANIEL SCHOFIELD, of Gloucester, in the county of Camden and State of New Jersey, have invented an Improvement in Calendering-Machines, of which the following is a specification:

The invention consists in running heated-metal rolls in connection with wet or damped wooden rolls.

The accompanying drawing is an end view of a calendering-machine.

A is one housing of the calendering-machine on its foot or stand B. C C' are metal rolls, and D D' wooden rolls, which turn in boxes of the said housings. The metal rolls are heated by steam, which is conveyed by suitable pipe-connections to the openings *a*. The wooden rolls are kept thoroughly wet and damp, in this instance by water running over them when stationary, and by wetting the cloths before calendering, or by any other means that convenience or adaptability may suggest.

Heretofore wooden rolls have been run in connection with heated-metal rolls, but not being kept wet during the process of calendering the heat from the metal rolls cracked and otherwise destroyed the surface of the wood, whereby the rolls were rendered inop-

erative. By the use of wooden rolls in connection with heated-metal rolls the thread is flattened more perfectly; an unequaled finish is given to the goods; a vastly greater number of pieces can be finished with much less power; the fabric can be calendered while sewed together; the stitches of the sewing do not roughen and destroy the surface of the wooden rolls. When paper rolls are used, the stitches of the sewing abrade and indent the paper; they must, therefore, be removed and the pieces again sewed together by pasting before calendering. The pasting takes about three and one-half inches from each end, or seven inches from each piece of fabric calendered, which is afterward severed and thrown away, making a loss of seven inches of the cloth calendered by paper rolls, and a saving of the same by the use of wooden rolls in connection with heated-metal rolls.

I claim as my invention—

A calendering-machine in which damped or wet wooden rolls are run in connection with heated-metal rolls.

DANIEL SCHOFIELD.

Witnesses at signing:

JAS. W. WARNER,
THOS. S. BROWN.