J. F. & M. SEIBERLING.
Machine for Lining Paper Board.

No. 198,469. Patented Dec. 25, 1877.

Fig. 1.

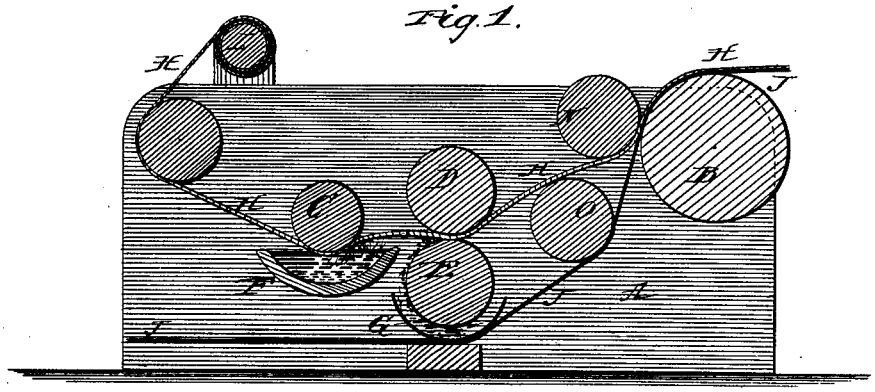


Fig. 2

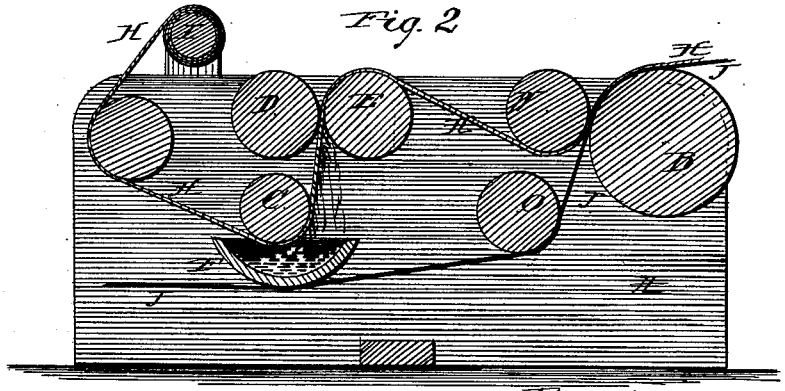


Fig. 3

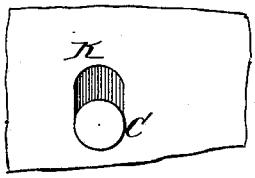
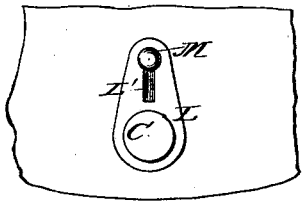


Fig. 4



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UNITED STATES PATENT OFFICE.

JOHN F. SEIBERLING AND MONROE SEIBERLING, OF AKRON, OHIO.

IMPROVEMENT IN MACHINES FOR LINING PAPER-BOARDS.

Specification forming part of Letters Patent No. **198,469**, dated December 25, 1877; application filed April 21, 1877.

To all whom it may concern:

Be it known that we, JOHN F. SEIBERLING and MONROE SEIBERLING, of Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Straw-Board-Lining Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

In the accompanying drawings, Figure 1 is a vertical section of our machine. Fig. 2 is a modified form of the same. Figs. 3 and 4 are detached views.

In constructing our machine the rollers are arranged in a suitable frame, A, as shown in Figs. 1 and 2.

The lining-paper H is fed into the machine from the roller I above the frame, while the straw-board J is introduced from below, and both meet as they pass between the two rollers B and N at the right-hand side of the machine.

Above the paste box or receptacle F is an adjustable roller, C, for depressing the paper more or less as it travels over the surface of the paste. The roller is provided with an adjustable bearing, L, Fig. 4, which has a slot, L′, and a set-screw, M, by means of which the roller is raised or lowered at pleasure. Instead of this revolving roller, for holding the paper in contact with the paste, as shown in the drawings, a stationary beam may be employed. This beam is made rounded, and smooth on the under side thereof. It is also made adjustable, so as to bring the paper more or less in contact with the paste, as desired; or sometimes the paste-box F is made adjustable, and in this case the roller or beam may be stationary. As the paper comes from the paste-box there will be more or less drip, which may be caught in the paste-box itself, or in a separate dripping-trough, G, Fig. 1. After the paper leaves the paste-box it passes between the rollers D and E, which serve, by gentle pressure, to spread the paste evenly over the surface of the paper before coming in contact with the straw-board. The pressure also removes the surplus paste, thus adding to the drip. From the inclined trough G, Fig. 1, the drip flows into a vessel at the side of the machine, and is then pumped back into the box F; or the rollers D and E may be directly above the paste-box F, so that all the drip and surplus paste will fall back into the box F, as seen in Fig. 2. The large roller B is made hollow, as a drier, in the usual manner, and heated by steam or otherwise.

The arrangement for operating the rollers and regulating their speed, and other details not described, may be similar to the ordinary machines for the same purpose, and require no further description.

Having described our invention, we claim—

1. In a machine for lining pasteboard, the above-described arrangement and combination of the adjustable depressing-roller C and paste-box F, or their described equivalents, in combination with the paste-spreading rollers D E and the drying-roller B, substantially as set forth.

2. The adjustable depressing-roller C and paste-box F, in combination with the paste-spreading rollers D E placed over the box F, as shown in Fig. 2, substantially in the manner and for the purposes set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JOHN F. SEIBERLING.
MONROE SEIBERLING.

Witnesses:
THOMAS H. GODWIN,
G. C. JEFFERIES.