(No Model.)

H. INMAN.

Straw Board Lining Machine.

No. 241,369. Patented May 10, 1881.

Fig. 2.

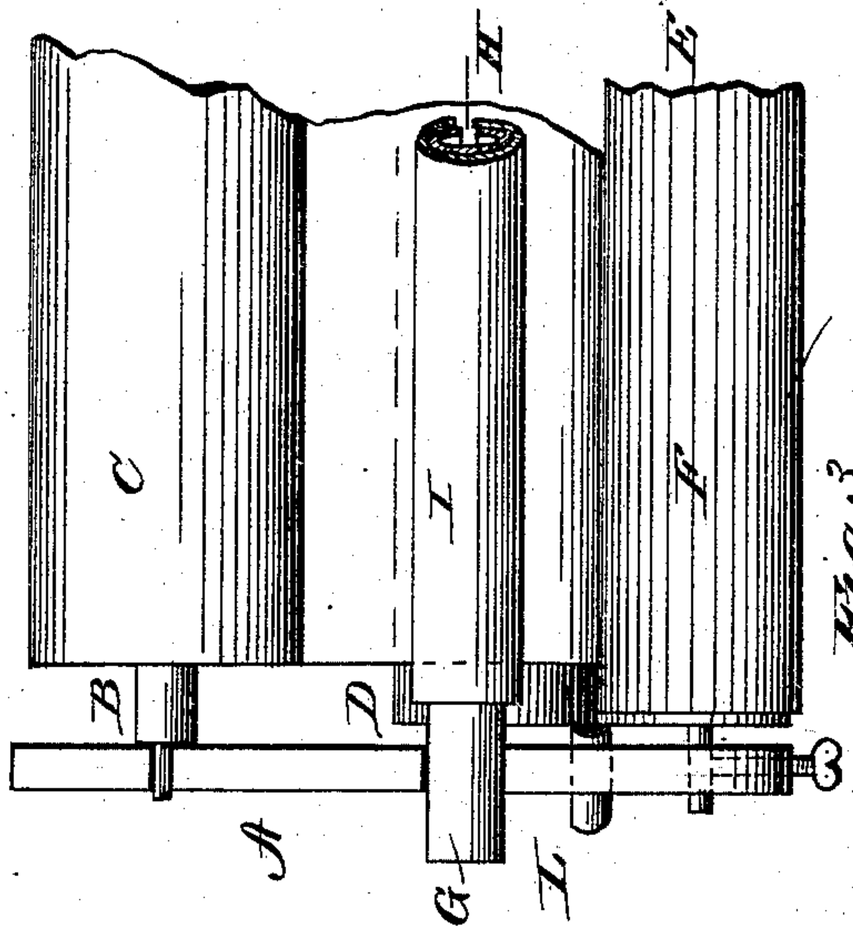


Fig. 3.

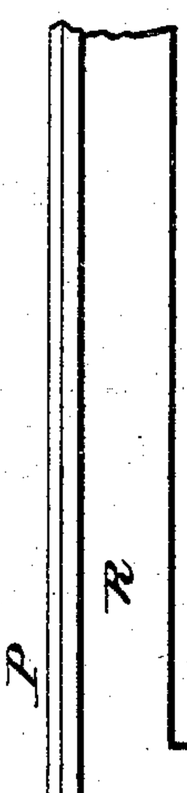
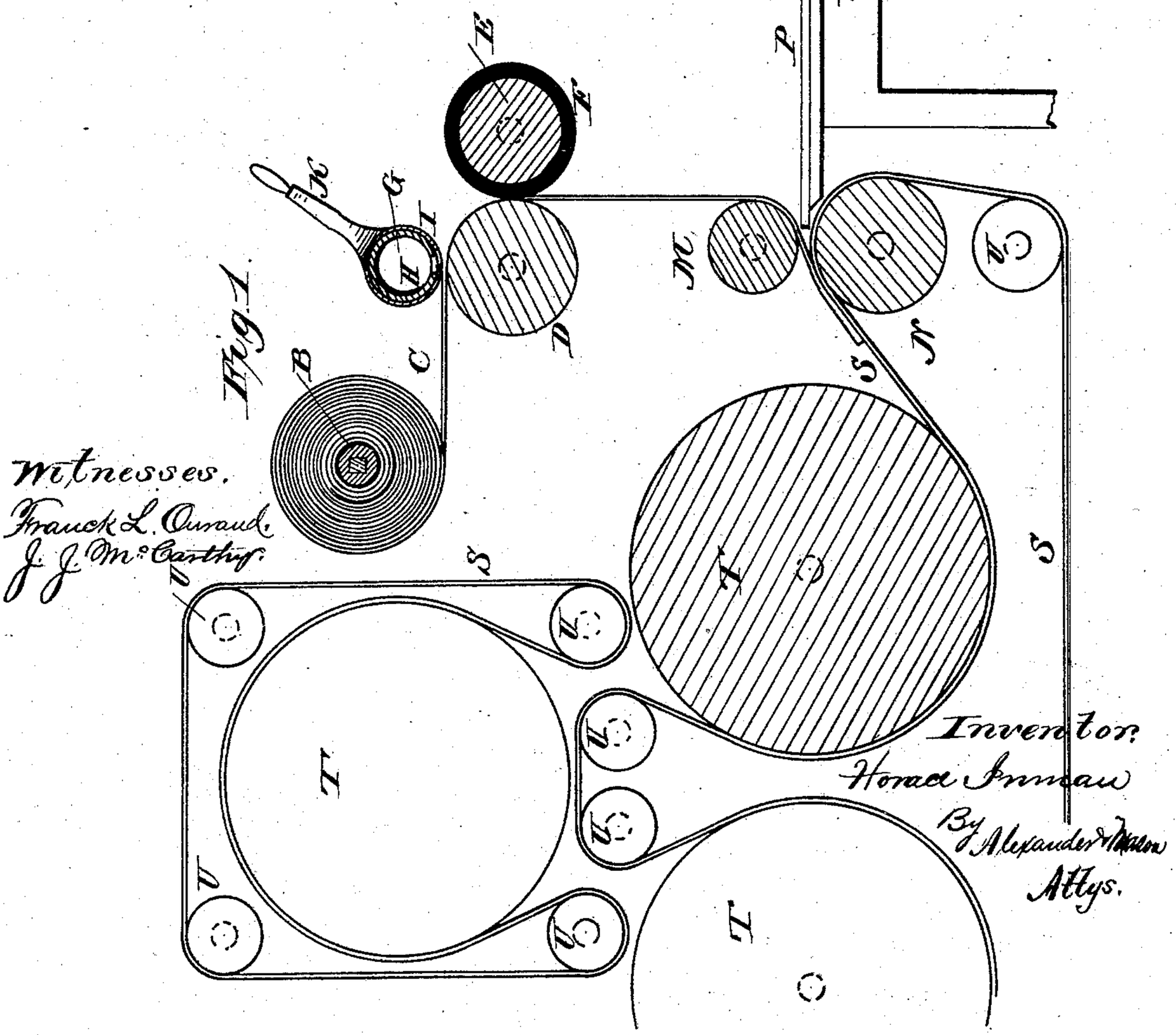


Fig. 1.



Witnesses.
Franck L. Ouraud.
J. J. McCarthy.

Inventor:
Horace Inman
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UNITED STATES PATENT OFFICE.

HORACE INMAN, OF AMSTERDAM, NEW YORK.

STRAW-BOARD-LINING MACHINE.

SPECIFICATION forming part of Letters Patent No. 241,369, dated May 10, 1881.

Application filed March 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, HORACE INMAN, of Amsterdam, in the county of Montgomery, and in the State of New York, have invented certain new and useful Improvements in Straw-Board-Lining Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in apparatus for facing card-board, pasteboard, and the like with paper; and it has for its objects to provide an improved means of supplying and distributing the paste or other adhesive material in uniformly-regulated quantities to the paper to be cemented to the card-board or pasteboard continuously as it is fed from a suitable roll, to save the surplus or waste paste or adhesive material, to secure the pasted paper to the sheet of card or paste board, and to dry the completed sheet, as more fully hereinafter specified. These objects I attain by the mechanism and apparatus illustrated in the accompanying drawings, in which—

Figure 1 represents a sectional view of my invention; Fig. 2, a top view of my apparatus, and Fig. 3 a detached view of the paste-distributer.

The letter A indicates one side of the frame supporting the working parts of my improved machine, and B the roller carrying the continuous roll of paper, C.

D indicates a roller, the object of which is to support the paper during the application of the paste or adhesive material; and E, an adjustable roller covered with elastic material, F, such as rubber or the like.

The letter G indicates the distributer for supplying the paste or other adhesive material to the paper. The said distributer consists of a hollow tube passing transversely across the apparatus above the roller D. The said tube is slotted longitudinally, as indicated by the letter H, and over it is secured a movable sleeve, I, similarly slotted, and adapted to be partially rotated on the tube by means of the lever K, in order to regulate the emission of the paste or adhesive material through the slots and supply it in proper quantities to the paper. The said distributer G is adapted to be connected at one end to a suitable pump, by means of which the paste can be forced into it under any desired or proper pressure.

The letter L indicates a tube passing through the frame of the apparatus, on a line with the line of junction of the peripheries of the rollers D and E, in such manner as to carry off the surplus paste to a suitable receptacle. The paper passes from the roller B, between the rollers D and E, thence downward between the rollers M and N, the paste being applied just previous to its passage between said rollers D and E. The card-board or pasteboard (indicated by the letter P) passes from the table R with the paper between the rollers M and N, by which the cemented face of the paper is pressed firmly into contact. From these rollers M and N the paper and card-board, after being cemented together, are carried by means of an endless belt, S, over the drying-rollers T, which are hollow and heated by steam, the belt passing over the series of guide-rollers U, by means of which it is carried to and over the respective heating-rollers.

When the paste-distributer becomes clogged or dirty, by entirely closing the slot by means of the rotating sleeve and connecting one end with a suitable steam-generator, a current of steam may be passed through it, whereby it will be thoroughly cleansed.

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

1. In an apparatus for facing card-board, pasteboard, and the like with paper, a paste-distributer consisting of a longitudinally-slotted tube connected with a suitable paste-supply, and provided with a longitudinally-slotted sleeve adapted to be rotated thereon, whereby the emission of the paste upon the paper is regulated, substantially as specified.

2. In combination with the paper-supporting roller, the elastic roller bearing against the same, and the paste-distributer, the tube for the discharge of the surplus paste, substantially as and for the purposes specified.

3. In combination with the supply-roller, the supporting and elastic rollers and paste-distributer, the pressing-rollers and the heating-rollers, belt, and guide-rollers, all arranged to operate substantially as and for the purposes specified.

In testimony that I claim the foregoing I have hereunto set my hand this 25th day of March, 1881.

HORACE INMAN.

Witnesses:
H. AUBREY TOULMIN,
H. J. ENNIS.