L. BASTET.

Machine for Waxing Paper.

No. 229,798. Patented July 13, 1880.

Fig. 1.

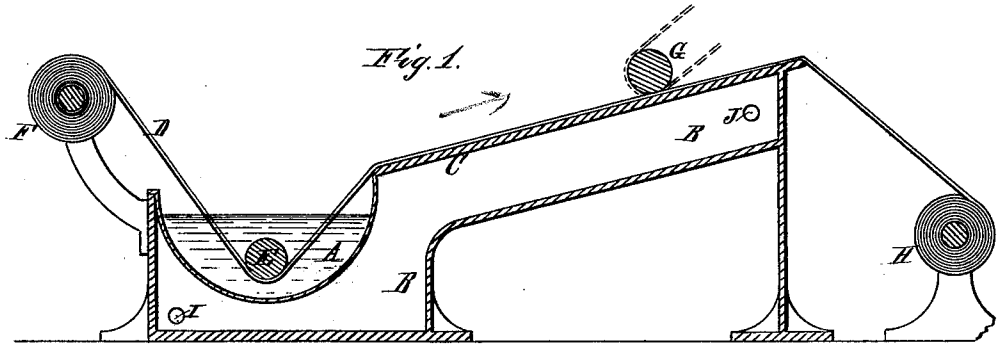
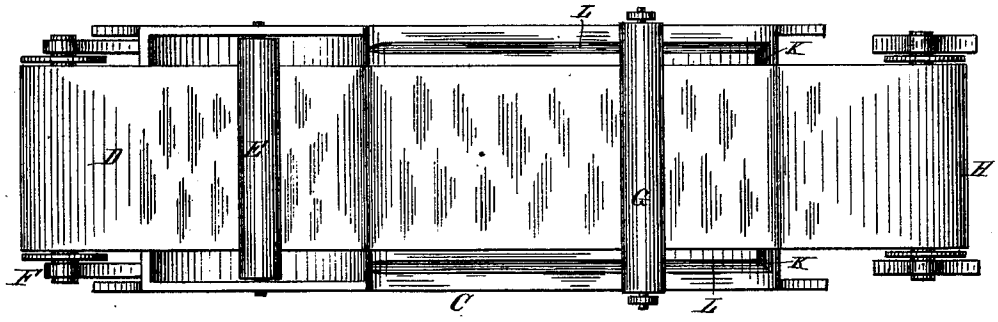


Fig. 2.



Witnesses:

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LOUIS BASTET, OF BROOKLYN, NEW YORK.

MACHINE FOR WAXING PAPER.

SPECIFICATION forming part of Letters Patent No. 229,798, dated July 13, 1880.

Application filed November 25, 1879.

To all whom it may concern:

Be it known that I, LOUIS BASTET, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Machinery for Waxing Paper, which is fully described in the following specification.

My invention relates to machinery for waxing and glossing paper by coating it with paraffine or other wax and smoothing, glossing, and drying it with hot iron; also coloring, sizing, or waterproofing paper.

The invention consists in the peculiar construction and arrangement of the heating, smoothing, glossing, and drying part of the apparatus, the object being to so construct it as to be much cheaper to make, more economical to work, and also more effective in imparting smoothness and gloss to the paper than the machinery now in use.

The essential feature of the invention consists of a smoothing, glossing, and drying-table, over which the paper is drawn directly upon issuing from the trough in which the wax is applied to the paper, said table being provided with a steam-jacket for heating it, and said jacket including the trough wherein the wax is also heated. The table is also constructed with an ascending incline, up which the paper is moved while being glossed and dried, and to which the paper has better contact than it would have on a level. The incline also retards the flow of any excess of wax that may pass up out of the trough onto the table by causing it to flow or tend to flow down to or toward the trough.

Figure 1 in the accompanying drawings is partly a side elevation of my improved paper waxing and glossing machine. Fig. 2 is a plan view.

A represents the wax-trough, in which the wax is kept hot and liquid by steam-heat within the jacket B. C is the smoothing, glossing, and drying table, which is also heated by steam within the jacket B, which includes both the trough and the table, the whole being a metallic structure in one device, being either cast or constructed of rolled plates, as may be preferred, and the top of the table is planed, ground, or otherwise finished smoothly for ironing and glossing the paper, which is made to pass over it for that purpose, after going through the wax in the trough or being otherwise charged with wax therein or therefrom.

D is the paper, which is made to pass through the wax in the trough by being drawn under the guide rod or roller E therein from the reel F.

G is a feed-roller located over the table C, to urge the paper along thereon, and H is the reel which receives it after leaving the table, said reel mainly drawing the paper through the machine and reeling it up for storing it away.

As the table inclines upward from the end next to the wax-trough any surplus of wax that may rise up along with the paper, but not yet absorbed by it, will flow back into the trough or toward it, but still in contact with the paper, which, by being heated by the table in the presence of the wax, will be saturated in a greater measure than when it passes over a roller.

From the point where the paper passes onto the table the incline is extended a suitable distance to afford the necessary heating, smoothing, and glazing surface, all of which is in the most favorable relation to the paper to have the best effects upon it, and likewise is exactly uniform and acts without the intermediate cooling effects to which the paper is subject when a series of smoothing-rollers is used, from one to another of which the paper passes through spaces exposed to the air.

I and J are the steam-pipe connections. K is a groove across the table at the upper end, and L grooves along the margins of the top, for returning any wax dripping from the paper or thrown out from its edges back into the trough.

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

1. The combination, in a paper-waxing machine, of the waxing-trough A and heated smoothing, glazing, and drying table C, substantially as described.

2. The combination of the waxing-trough A, table C, rollers E G, and reels E and H, substantially as described.

3. The waxing-trough A and smoothing, glossing, and drying table C, combined with

each other and included in the jacket B, substantially as described.

4. The combination, with the waxing-trough A, of the smoothing, glossing, and drying table C, receiving the paper directly from the trough, and being inclined upward from said trough, substantially as described.

5. The combination of the wax-trough A and table C, having grooves K across the top and L along the margins, discharging into said trough, substantially as described.

LOUIS BASTET.

Witnesses:
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