

(No Model.)

C. A. WILKINSON.

WAXING PAPER.

No. 365,213.

Patented June 21, 1887.

Fig. 1.

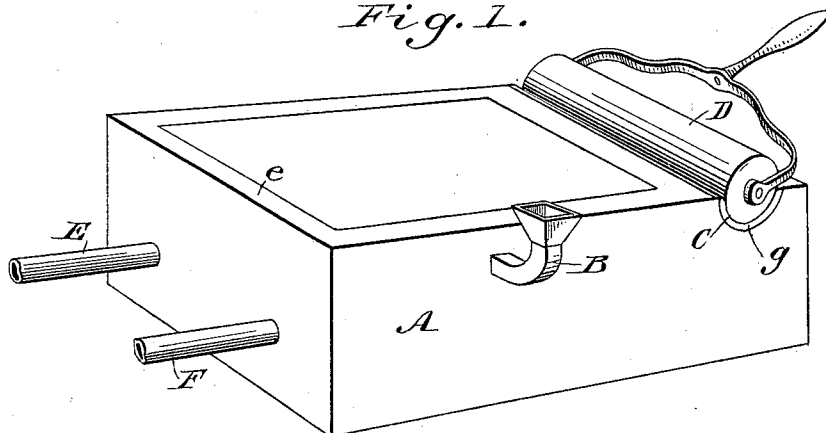


Fig. 2.

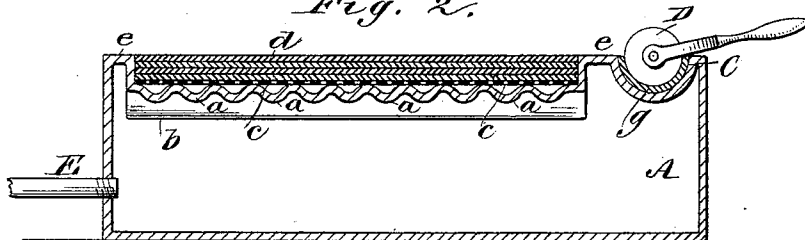
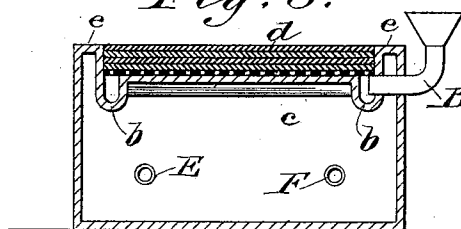


Fig. 3.



WITNESSES:

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CHARLES A. WILKINSON, OF EAST SOMERVILLE, MASSACHUSETTS, ASSIGNOR,
BY DIRECT AND MESNE ASSIGNMENTS, TO THE WINDSOR LOCKS WAX
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WAXING PAPER.

SPECIFICATION forming part of Letters Patent No. 365,213, dated June 21, 1887.

Application filed November 20, 1885. Renewed October 29, 1886. Serial No. 217,319. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. WILKINSON, of East Somerville, in the county of Middlesex and State of Massachusetts, have
5 invented a new and Improved Process of Waxing Paper, of which the following is a full, clear, and exact description.

My invention relates to the manufacture of what is known to the trade as "waxed paper;" and the invention consists of an apparatus for carrying such method or process
10 into effect, as will be hereinafter explained, and specifically pointed out in the claims.

Reference is to be had to the accompanying
15 drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the apparatus employed to carry out my improved process of waxing paper. Fig. 2 is a longitudinal
20 sectional elevation of the same. Fig. 3 is a cross-sectional elevation of the apparatus.

In carrying my improved method of waxing paper into operation, I employ such an
25 apparatus as is illustrated in the drawings above referred to, wherein there is shown a metallic box, A, preferably formed of cast-iron, and having a sunken upper surface which is slightly corrugated, the corrugations running
30 across the face of the sunken portion, as shown at *a a*.

Along each side of the depressed or sunken surface there is a deep gutter, *b*, and leading into one of these gutters is a funnel, B, by
35 means of which melted wax or paraffine is poured into the gutter, so as to flow across the corrugated surface of the box.

A sheet of perforated boiler-iron, *c*, is placed upon the corrugated surface of the depressed
40 portion of the box A, the perforations in said sheet being very fine and very close together, while a number of sheets of felt, *d d*, are placed upon the plate *c*, a sufficient number of such sheets of felt being employed to bring the upper
45 surface of the pile just above the edges *e e* of the box A.

A groove, C, is formed near one end of the upper surface of the box, and this groove is lined with felt *g*, which is cemented to the box,
50 the idea being to provide a place where a roller, D, may be placed when not in use, and the

felt lining being provided in order that the roller, which should have a perfectly-smooth surface, may not be dented by coming in contact with the sharp edges of the iron.

A supply-pipe, E, and an exhaust-pipe, F, are fitted in one end of the box A, so that steam may be supplied to the interior of the box, which has to be heated in the operation
60 of waxing paper.

The operation is as follows: The machine having been set up and properly leveled, melted wax or paraffine is poured into the funnel B, a sufficient amount being introduced to thoroughly saturate the felt above the plate
65 *c*. The steam is then turned on and the temperature raised to about 230° Fahrenheit. The paper may now be waxed by placing the sheets upon the felt-bed and passing the roller B over their upper surfaces, the sheets being
70 placed singly and successively upon the bed, and lifted therefrom and piled, after being subjected to the pressure of the roller, the action of the air while the sheet is being transferred from the waxing-machine to the pile
75 being sufficient to cool and set the wax and prevent the sheets from sticking together when piled.

This method and apparatus for waxing paper is more especially adapted for use in the
80 waxing of tissue-paper, but may be employed with advantage in the waxing of any of the lighter grades of paper.

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

1. In an apparatus for waxing paper, the combination, with a box provided with steam-pipes and having an upper depressed and corrugated surface, of a perforated plate, *c*, and
90 felt sheets *d d*, substantially as described.

2. In an apparatus for waxing paper, the combination, with a box provided with steam-pipes, and having an upper depressed and corrugated surface, and gutters *b b*, fed by a funnel, B, of a perforated plate, *c*, felt sheets *d d*,
95 and a roller, D, substantially as described.

CHARLES A. WILKINSON.

Witnesses:

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