

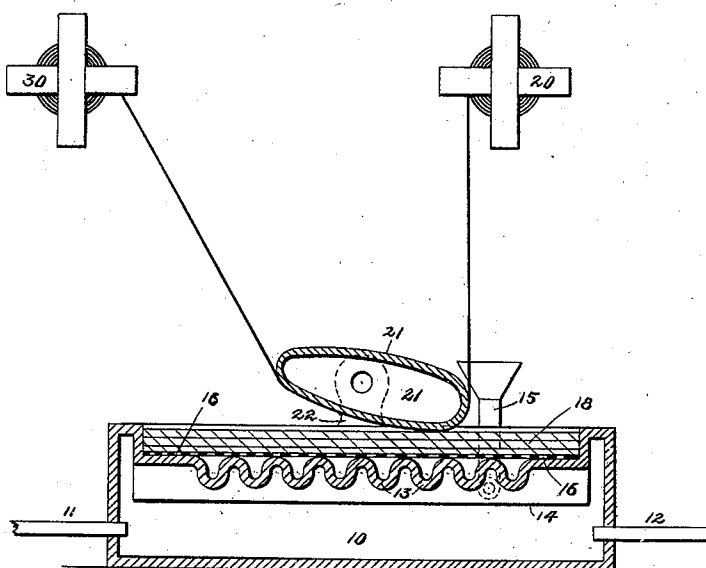
(No Model.)

C. A. WILKINSON & W. S. McDONALD.

PROCESS OF WAXING PAPER.

No. 374,025.

Patented Nov. 29, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES A. WILKINSON, OF EAST SOMERVILLE, AND WILLIAM S. McDONALD, OF BOSTON, MASSACHUSETTS, ASSIGNORS TO THE WINDSOR LOCKS WAX PAPER COMPANY, OF WINDSOR LOCKS, CONNECTICUT.

PROCESS OF WAXING PAPER.

SPECIFICATION forming part of Letters Patent No. 374,025, dated November 29, 1887.

Application filed October 29, 1886. Serial No. 217,527. (No model.)

To all whom it may concern:

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

Our invention relates to an improved process of forming wax or paraffine paper, and is an improvement upon the process described in application No. 184,342, heretofore filed by the above-named Charles A. Wilkinson, the present invention relating to a process whereby the wax is distributed upon a web, in contradistinction to being distributed upon a sheet of paper, as set forth in said application.

The invention consists of a process whereby the web of paper is drawn over a blanket that is saturated with heated wax or paraffine, as will be hereinafter more fully described, and specifically pointed out in the claims.

Reference is to be had to the accompanying drawing, in which we have illustrated an apparatus by means of which wax-paper may be prepared in accordance with the terms of our invention, the tank in which the melted wax is held being shown in section.

In carrying our invention into practice we employ a tank, 10, that is heated by steam, the required circulation of steam being maintained through the medium of pipes 11 and 12, that are arranged as illustrated. The upper face of the tank 10 is corrugated, as shown at 13, and along each side of the tank there is a trough, 14, one of said troughs being fed through a spout, 15. Above the upper corrugated surface of the tank there is placed a perforated sheet of metal, 16, and above said perforated sheet of metal we arrange sheets of felt or other proper absorbing material, 18.

The paper to be waxed is passed from a reel, 20, under a steam-chest, 21, that is egg-shaped in cross-section, and mounted upon hollow trunnions that are supported by brackets 22, the steam being led in through the trunnions in the well-known manner. The chest 21 is arranged so that its larger end rests upon the upper strata of felt and presses lightly thereupon, and as the paper is drawn forward it will take up a certain amount of wax or par-

affine from the felt, and the wax so taken up will be evenly distributed upon the surface of the paper as the paper is pulled along beneath the lower curved surface of the chest 21 to be wound upon the reel 30, which reel 30 is located at a sufficient distance from the chest to allow the paraffine to set or cool upon the web.

The amount of wax that is taken up by the paper may be regulated by varying the thickness of the pile of felt—that is, if a large quantity of wax was to be distributed upon the paper we would employ a thin pile of felt, whereas if only a small quantity of wax was to be distributed upon the web the thickness of the pile would be increased.

If desired, more than one steam chest could be employed, so that two or more webs could be waxed at the same time.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The process herein described of waxing paper, consisting in drawing the web between a steam chest and a material saturated with heated wax, and then passing the coated web over the surface of the said chest out of contact with the saturated material, to calender the same, as set forth.

2. The process herein described of waxing paper, consisting in drawing the web between an eccentrically-pivoted steam-chest and a material saturated with heated wax or paraffine, as set forth.

3. In an apparatus for waxing paper, the combination, with a suitable support for holding an absorbent material, of an eccentrically-pivoted steam-chest arranged above said support, substantially as herein shown and described.

4. An apparatus for waxing paper, consisting of the tank 10, having the corrugated upper surface, 13, and provided with the side troughs, 14, the absorbent material, 18, supported above the said corrugated surface, and the steam-chest 21, provided with eccentric hollow trunnions, substantially as herein shown and described.

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Witnesses:

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