O. LOEWENBACH.

SHEET MOISTENER.

APPLICATION FILED JAN. 27, 1917.

1,249,434. Patented Dec. 11, 1917.

Fig. 1.

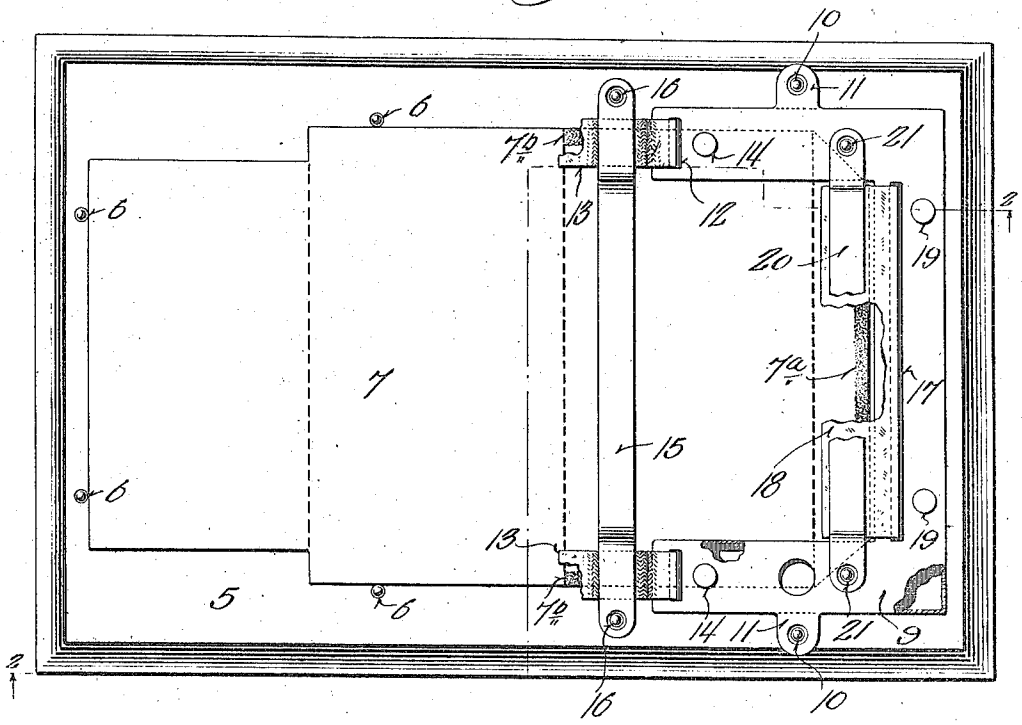
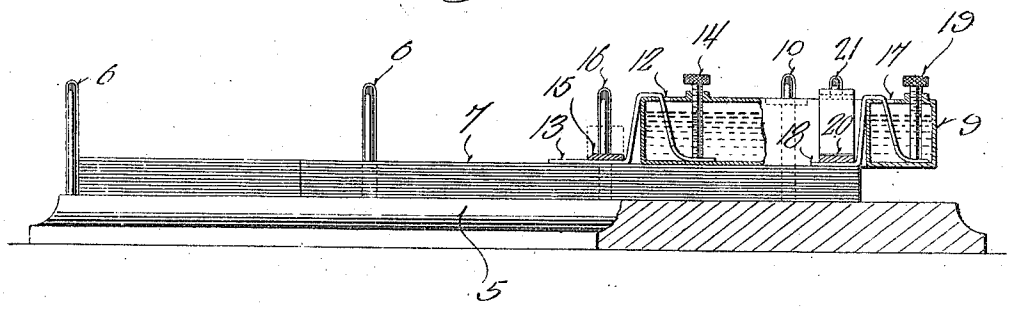


Fig. 2.



Witnesses:

Inventor:
Oscar Loewenbach
by Geo. Young
Attorney

UNITED STATES PATENT OFFICE.

OSCAR LOEWENBACH, OF MILWAUKEE, WISCONSIN.

SHEET-MOISTENER.

1,249,434. Specification of Letters Patent. Patented Dec. 11, 1917.

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To all whom it may concern:

Be it known that I, OSCAR LOEWENBACH, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Sheet-Moisteners; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to new and useful improvements in sheet moistening devices, and is more particularly directed to the provision of a device for moistening the sides and valance flange portions of sheets adapted to be folded to form envelops and inclosed message sheets.

It is primarily the object of my invention to provide an arrangement wherein sheets disposed in superposed relation may be successively moistened upon withdrawal from such superposed relation.

A more specific object resides in the provision of a moistening device adapted to be associated with relatively large piles of sheets, and wherein the moistening operation automatically remains effective upon reducing the height of the pile due to withdrawal of sheets therefrom.

A further object resides in the provision of a moistening device possessing the above advantages and which is adapted to simultaneously moisten the sides and valance flange ends of sheets of paper adapted to be folded to form combined envelops and message sheets.

With the above and other objects and advantages in view, the invention resides more particularly in the novel combination, formation and arrangements of parts hereinafter described and pointed out in the appended claims.

In the drawings:

Figure 1 is a plan view of my improved sheet moistening device.

Fig. 2 is a side elevational view of my improved moistening device, one end portion thereof in broken section as indicated by the line 2—2 of Fig. 1.

Referring now more particularly to the accompanying drawings, there is provided a bed plate 5 provided with a plurality of upstanding gage pins 6 for retaining a pile of sheets 7 on the bed. These sheets are of the usual type providing combined envelops and message sheets, and one end of each sheet is provided with a transversely extending coating of paste 7^a, and the adjacent side portions of the sheet are provided with longitudinally extending coatings of paste 7^b.

A U-shaped water casing 9 is provided of such dimensions as to seat on the paste carrying end portion of the pile of sheets and this casing is held for vertical sliding movement by upstanding guide pins 10 slidable through outwardly projecting ears 11 on the arms of the casing. The top portions of the free ends of the arms of the casing are provided with transverse slots 12, and extended through these slots are inner ends of relatively narrow wicks 13 which are adapted to be held within the casing by set screws 14 threaded through the tops of the casing legs and clamping the wicks against the bottom of the casing. The outer ends of the wicks are adapted to lie upon the topmost sheet 7, and to hold said wicks thereagainst to properly moisten the paste coats 7^b, a weight bar 15 is provided, the same having its end portions downwardly offset to seat on the wicks, and apertured for the reception of upstanding guide pins 16 on the bed plate 5. The bight portion of the water casing is provided in its top with a longitudinal slot 17 through which is passed the inner end of a wide wick 18 secured by the set screws 19 and the outer portion of this wick rests on the paste coated section 7^a of the topmost sheet 7, being properly held thereagainst by the downwardly offset intermediate portion of a weight bar 20, the ends of this weight bar being apertured for the reception of upstanding guide pins 21 on the arms of the casing.

The wicks are retained in a suitable moistened condition by capillary attraction, and thus upon successively withdrawing the sheets 7, the side and end coatings of paste are properly moistened, the weight of the casing 9 holding the pile of sheets in proper relation, in conjunction with the guide pins 6.

While I have shown and described a preferred form of my invention adapted for a particular purpose, it is obvious that other and perhaps simpler embodiments of my invention may be employed to meet differing conditions of use, without departing in any manner from the spirit of my invention, or exceeding the scope of the appended claims.

What is claimed:—

1. A moistening device comprising a bed plate, a fluid container connected therewith

and adapted to have a pile of sheets disposed thereadjacent, said pile of sheets resting on the bed plate, a fluid distributing means connected with the container, and means movable independently of the container for continuously forcing the distributing means into engagement with the pile of sheets.

2. A moistening device comprising a bed plate, a fluid container connected therewith, said bed plate being adapted to have a pile of sheets disposed thereon adjacent said container, and a wick projecting from the upper portion of the container and depending at the sides thereof into engagement with said pile of sheets, the fluid from the container being fed to said sheets by capillary action.

3. A moistening device comprising a bed plate, a fluid container connected therewith for vertical movement thereabove, a wick projecting from the upper portion of the container and depending at the sides thereof, and means movable independently of the container for urging the free end of the wick toward the bed plate.

4. A moistening device comprising a bed plate, a fluid container connected therewith for vertical movement and normally movable theretoward, a fluid distributing means projecting from the container, and means movable independently of the container and engaging the free end of the fluid distributing means for forcing the same toward the bed plate.

5. A moistening device comprising a bed plate, spaced pairs of upstanding guide pins at the sides thereof adapted to receive a pile of sheets therebetween, a fluid container slidably connected with one pair of guide pins, a wick projecting from the upper portion of the container and depending at the side thereof, and a pressure bar slidably connected with the other pair of guide pins and engageable with the outer end of the wick.

6. A moistening device for envelop forming sheets comprising a bed plate, a U-shaped fluid container connected therewith for vertical movement thereabove and adapted to rest on a pile of sheets on the bed plate, a fluid distributing member disposed longitudinally of the base of the fluid container and a pair of fluid distributing members disposed at the free ends of the arms of the fluid container, said distributing means being adapted to engage said sheets.

7. A moistening device for envelop forming sheets comprising a bed plate, a U-shaped fluid container connected therewith for vertical movement thereabove, and adapted to rest on a pile of sheets on the bed plate, a wick projecting from the container between the legs thereof, and fluid distributing means at the free ends of the legs of the container, said wick and fluid distributing means being adapted to engage said sheets.

8. A moistening device comprising a bed plate, a fluid container connected therewith for vertical movement thereabove, a wick projecting from the upper portion of the container and depending at the side thereof, means movable independently of the container for urging the free end of the wick toward the bed plate to engage the articles thereon, and means for securing the wick to the container comprising a set screw threadedly passed into the container for binding the inner end of the wick to the bottom of the container.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

OSCAR LOEWENBACH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."