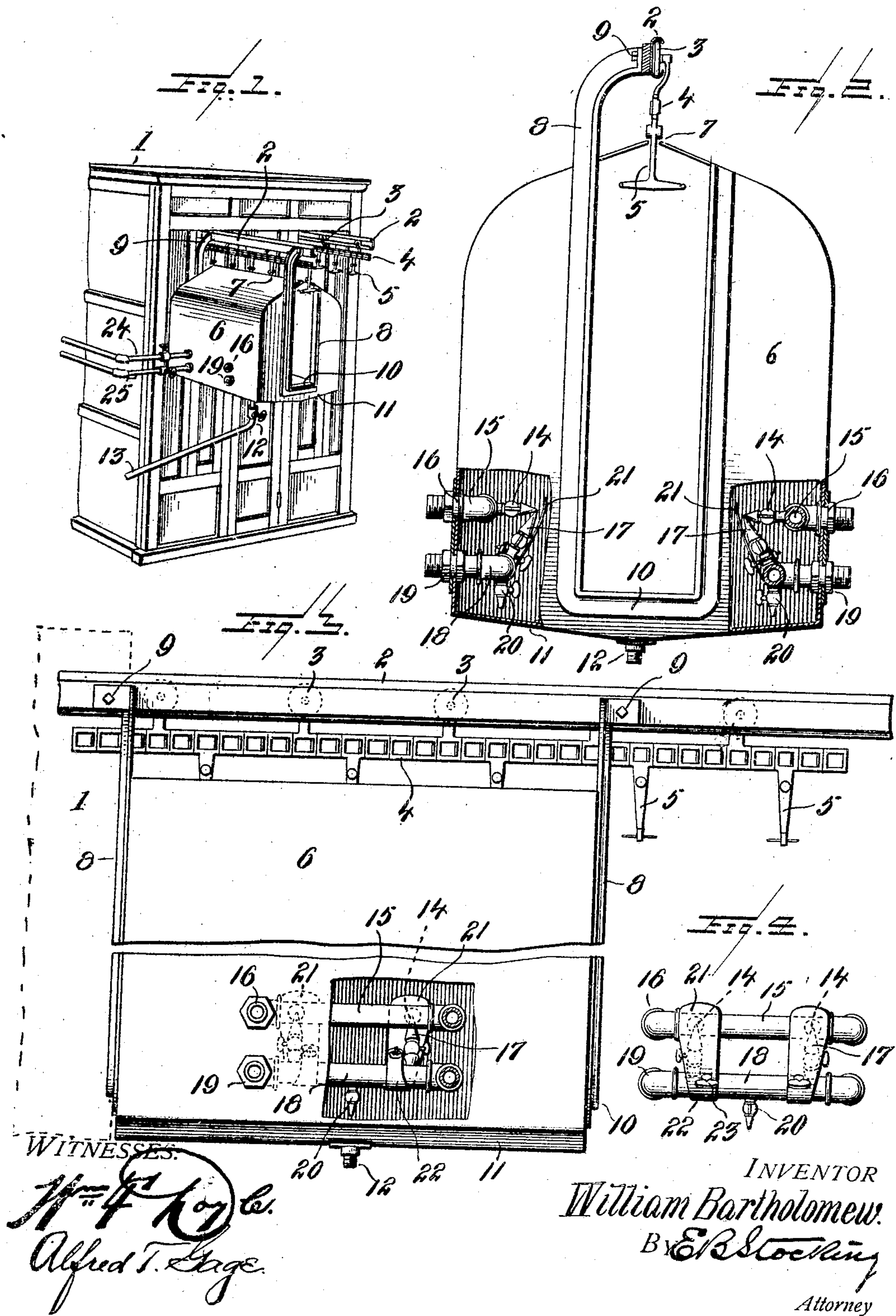


No. 877,824.

PATENTED JAN. 28, 1908.

W. BARTHOLOMEW.
DAMPENING ATTACHMENT FOR DRY ROOM CONVEYERS.

APPLICATION FILED APR. 17, 1907.



UNITED STATES PATENT OFFICE.

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DAMPENING ATTACHMENT FOR DRY-ROOM CONVEYERS.

No. 877,824.

Specification of Letters Patent.

Patented Jan. 28, 1908.

Application filed April 17, 1907. Serial No. 363,715.

To all whom it may concern:

Be it known that I, WILLIAM BARTHOLOMEW, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Dampening Attachments for Dry-Room Conveyers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a dampening attachment for dry room conveyers, and particularly to an endless conveyer used in connection with laundry work so that the goods passing from the dry room are dampened preparatory to the ironing operation.

The invention has for an object to provide a novel and improved construction of dampener suspended from the track of the carrier immediately adjacent to the exit opening from the dry room so that the dried goods and the portion of the carriers supporting the same pass through the moistening casing before the goods are taken from the carrier in condition to be immediately ironed.

A further object of the invention is to provide a novel and improved construction and arrangement of the moistening means so as to produce an atomized mist or cloud effect and avoid the direct contact of water with the goods in a drop or globule form as when sprayed thereon.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a perspective showing the application of the invention to a dry room; Fig. 2 is an enlarged end elevation with parts in section; Fig. 3 is a side elevation of the casing with parts broken away, and Fig. 4 is a detail elevation of the atomizing device and baffle plates therefor.

Like numerals refer to like parts in the several views of the drawing.

The numeral 1 designates a dry room of any ordinary construction which is provided with a track 2 extending in a circuit therefrom. Upon this track any desired form of conveyer is mounted to travel in the usual endless circuit, one thereof being illus-

trated as provided with bearing wheels 3 from which the sprocket chain 4 is suspended, said chain being provided with depending carriers 5 upon which the goods or articles to be dried are mounted in the usual manner. Upon this track or way the moistening casing 6 is mounted in any suitable manner so as to depend therefrom and permit the travel of a portion of the carriers through the slot 7 at the top of the casing so that the goods are entirely inclosed and subjected to the atomized liquid for moistening the same. A desirable means for supporting this casing is by angle iron hangers 8 which are bolted or otherwise secured at their upper ends 9 to the track or way and formed at their lower portion into a yoke 10 which surrounds the openings at the ends of the casing through which the goods pass. These are duplicated at opposite ends, as shown in Fig. 3. The casing may be of any desired shape or size and is provided with an inclined draining bottom 11 having the connection 12 from which a valved discharge pipe 13 extends to carry from the casing any water condensing therein.

The atomizing device comprises a water nozzle 14, preferably disposed in a horizontal plane, as shown in Fig. 2, and mounted at the opposite ends of the pipe 15 which extends longitudinally of the casing and is supported at its opposite ends from the side wall thereof in any desired manner, for instance, the nut and flange construction as shown at 16. Beneath the water nozzle a steam or air nozzle 17 is disposed at an angle to the discharge from the water nozzle so as to produce the atomizing effect of the liquid which is the most desirable form of dampening in the art. These steam nozzles extend from the supporting pipe 18 mounted in the side wall of the casing as shown at 19 and provided with the pet cock 20 by which any water of condensation may be drawn therefrom. Opposite the discharge from these nozzles a baffle plate 21 is disposed which deflects the atomized liquid upward and also prevents direct contact of the water with the goods passing through the casing. This plate is mounted so as to be adjustable toward and from the

nozzles by means of the lower end 22 thereof which surrounds the supporting pipe 18 and the plate is frictionally clamped in position by means of the headed screw 23 passing therethrough and entering a threaded portion of the lower end. It will be seen that the tension upon this screw will clamp the baffle plate in position so that it can be adjusted in its position relative to the nozzles. The water nozzle 14 is in communication with the valved supply pipe 24 and the steam nozzle with a similar pipe 25 extending to any suitable source of supply.

In the operation of the invention the dampening of the goods is effected immediately upon their discharge from the drier without the necessity of any further handling and they are adapted for the immediate ironing operation. The form of this dampener permits its use with any construction of endless carrier in connection with such dry rooms and it occupies the minimum space being elevated above the floor and entirely supported from the track, while at the upper portion only a narrow slot is open through which a portion of the carrier supporting the goods may travel thus confining the atomized moisture at the point of application to the goods and preventing the goods from coming into direct contact with the atomizing device or with any liquid which may collect within the casing. It will therefore be seen that the invention entirely obviates the use of an independent dampening device. The improved form of atomizer prevents the spraying of a jet of water against the goods and the consequent uneven dampening thereof as the moisture when applied in the atomized condition is properly absorbed by the fabric giving an even dampening to the proper degree required for the most rapid and efficient ironing operation.

Having described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. In a device of the class described, the combination with a carrier mechanism, of a depending dampening casing supported in the path of travel thereof and provided with a longitudinal opening in its upper portion through which a portion of the carrier may pass.

2. In a device of the class described, a track, a traversing carrier mounted thereon, a casing suspended from said track and provided with an opening through which a portion of said carrier may pass, a moistening device disposed within said casing at opposite sides of a central passage therethrough, an inclined bottom to said casing, and a discharge connection therefrom.

3. In a device of the class described, a support, a traversing carrier mounted thereon,

and a casing provided at its opposite ends with yokes suspended from said support and at its upper portion with a slot extending longitudinally of the support.

4. In a device of the class described, a support, a traversing carrier mounted thereon, a casing provided at the opposite ends with yokes suspended from said support and at its upper portion with a slot extending longitudinally of the support, and moistening devices supported within the casing at opposite sides of said slot.

5. In a device of the class described, a support, a traversing carrier mounted thereon, a casing provided at its opposite ends with yokes suspended from said support and at its upper portion with a slot extending longitudinally of the support, longitudinally extended moistening pipes within said casing on opposite sides of said slot, and a plurality of atomizing nozzles carried by said pipes and discharging toward each other.

6. In a device of the class described, a support, a traversing carrier mounted thereon, a dampener casing suspended from said support and having a passage therethrough, atomizing devices within said casing comprising liquid and pressure nozzles disposed at an angle to each other, and a baffle plate opposite the discharge from each of said nozzles and at one side of the passage through said casing.

7. In a device of the class described, a dampener casing having a passage therethrough, atomizing devices therein comprising nozzles disposed at an angle to each other, a baffle plate opposite the discharge from said nozzles, and means for supporting and adjusting said plate relative to the nozzles.

8. The combination with a conveyer track, of a carrier mounted to travel thereon, a casing supported from said track and provided with an opening at its top to receive a portion of said carrier and inclose the goods thereon, and a moistening device mounted in said casing.

9. The combination with a conveyer track, of a carrier to travel thereon, a casing provided with an opening at its top to receive a portion of said carrier, a moistening device mounted in said casing, and supporting yokes for said casing extended from one side of the carrier track.

10. A moistening casing provided with a feed passage therethrough and a slotted top portion, moistening devices supported by the side wall of said casing at the lower edge thereof and opposite the passage therethrough, and an inclined bottom to said casing.

11. A moistening casing provided with a feed passage therethrough and a slotted top portion, a moistening device supported by

the side wall of said casing at the lower edge thereof and opposite the passage there-through, an inclined bottom to said casing, and a baffle plate disposed between the moistening device and said passage.

5 12. The combination of a track and a traversing carrier thereon, a casing supported therefrom beneath said track to inclose a

portion of the carrier, and a moistening device within said casing.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM BARTHOLOMEW.

Witnesses:

WM. KROGMAN,

J. WEBB GRIFFEN.