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PATENTED AUG. 11, 1903.

J. LINGO.

DRYING APPARATUS FOR LAUNDRIES.

APPLICATION FILED MAY 24, 1902.

NO MODEL.

FIG. 2.

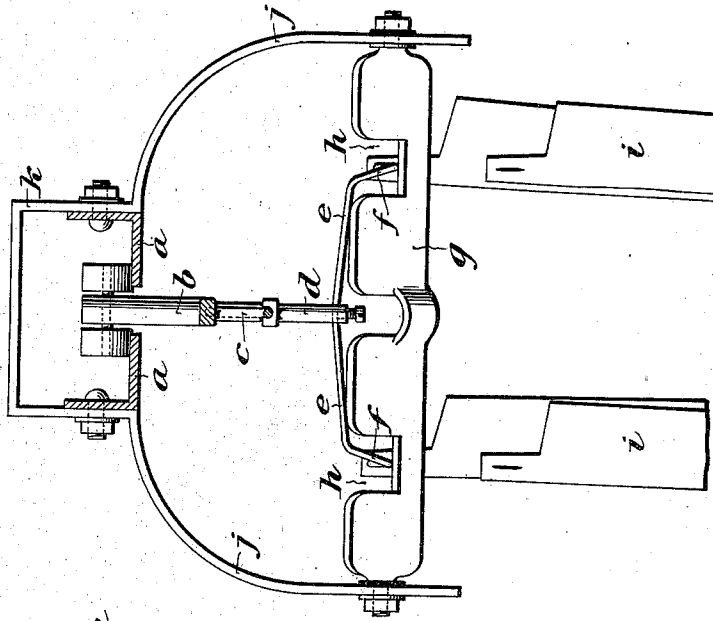
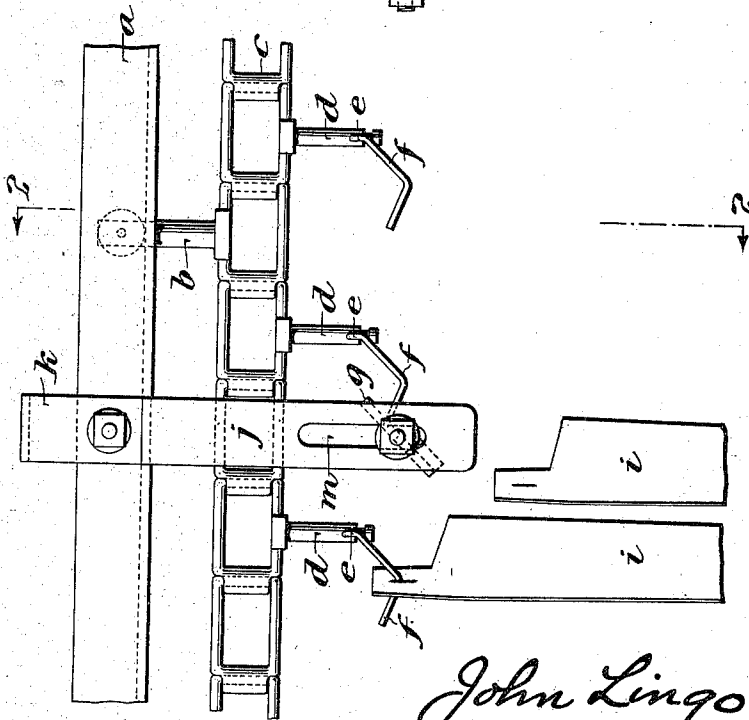


FIG. 1.



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DRYING APPARATUS FOR LAUNDRIES.

SPECIFICATION forming part of Letters Patent No. 736,274, dated August 11, 1903.

Application filed May 24, 1902. Serial No. 108,760. (No model.)

To all whom it may concern:

Be it known that I, JOHN LINGO, a citizen of the United States, residing in the city and county of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Drying Apparatus for Laundries, of which the following is a specification.

In the conduct of modern laundries where a large number of articles of clothing are operated upon, it is a desideratum to conduct the operations by automatic machinery or appliances wherever possible, to the end of reducing the expense and shortening the time incident to the work.

In connection with modern laundries it is customary to provide a carrier upon which articles, after having been washed, are suspended, and by which they are carried through or about a heated apartment that they may become dry.

The carrier is, of course, provided with clothing engaging devices or means through which the washed articles are supported by it.

It is the object of my invention to provide a simple and inexpensive means, by which the articles may be automatically stripped or removed from the traveling carrier at a selected point, my improved devices being of such character as will not occasion tearing of the articles.

In the accompanying drawings I show, and herein I describe, a good form of a convenient embodiment of my invention. It is to be understood, however, that other forms differing considerably in arrangement may be resorted to without departure from the spirit of my invention.

In the accompanying drawings,
Figure 1 is a view in side elevation of a section of a traveling conveyer associated with which are devices embodying my invention.

Figure 2 is a sectional elevation of the apparatus, section being supposed on the dotted line 2—2 of Figure 1.

Similar letters of reference indicate corresponding parts.

In the accompanying drawings, *a* are a pair of rails assumed attached to any usual and convenient supports not shown.

b is a traveler consisting of a suspension bar arranged within and free for travel along the space between the two rails *a*, and at its upper end provided with a pair of rollers which rest and travel upon said rails.

c is a chain, to a link of which said suspension bar is attached.

It is, of course, to be understood that the rails are of very considerable length, that the chain is preferably of length corresponding to the rails, both said rails and said chain being usually endless, and that said chain is supported by a series of the travelers referred to, which are suitably spaced apart.

Any suitable means, not herein shown, may be employed to occasion the continuous travel of the chain and its travelers and the articles carried by it.

The chain and its travelers may be generally referred to as a traveling conveyer. It is manifest that the precise construction and arrangement of the parts of the traveling conveyer are not of the essence of the invention.

d are supporting arms connected with and depending from selected links of the chain, and said arms are in the form illustrated as to their lower ends provided with branch arms *e*, which extend from their opposite sides, in a direction transverse with respect to the axis of the adjacent portion of the chain, and are, as to their outer ends, respectively, equipped with downwardly and rearwardly extending fingers *f*, which fingers are preferably slightly dished in the center so as to be approximately V-shaped or U-shaped.

I refer to the fingers *f* as rearwardly extending because they extend from the branch arms in a direction the opposite of that in which the conveyer travels.

Upon the fingers *f* the articles are after having been washed, suspended one by one in any convenient manner by an operative. In the drawings such articles are indicated by the letter *z*.

g is a stripper device, which I prefer to make in the general form of a plate or elongated strip, and which is so arranged that it extends beneath and transversely with respect to the traveling conveyer, in such position that as the conveyer travels the articles suspended from the fingers encounter

said stripper device, and, being retained by it against further travel, while the conveyer continues to travel, said articles are caused to slip rearwardly along said fingers and drop

5 from their rear ends.

I prefer to form said stripper bar as an approximately flat plate and set it at such inclination as to be approximately perpendicular to the axes of the rear portions of fingers.

10 I further prefer to provide recesses *h* in the edge of said stripper bar, through which the downwardly and rearwardly extending fingers will pass, to the end that the upwardly extending pair of bounding members or side walls of said recesses may, when articles of

15 considerable bulk are mounted on said fingers, cooperate with the bottom portions of the recesses in engaging said articles and holding them against travel while the fingers in the continued travel of the conveyer are withdrawn from them.

I do not, of course, restrict myself, in constructing apparatus embodying my invention, and in supplying the upwardly extending

25 members which form the respective sides of the passages through which the rearwardly extending fingers are drawn,—to providing such members by forming them as edges or walls of recesses in a broad plate, nor do I

30 restrict myself to the precise arrangement of said members illustrated in the accompanying drawings.

The bar, being stationary, will, as is manifest, as the conveyer travels along, be encountered, two by two as the apparatus

35 shown happens to be organized, by the articles suspended from the conveyer, and will automatically strip said articles from the fingers, allowing them to drop by gravity upon the floor or into any selected receptacle beneath.

When rails of the character illustrated in the drawings are employed, I prefer to support the bar *g* as to its respective ends in a

45 pair of depending brackets *j*, conveniently formed as continuations of an angular frame *k*, the respective sides of which frame may be riveted fast to the side flanges of the rails.

When resort is had to this arrangement, as is manifest, the brackets will be rigidly supported with respect to the rails and afford a firm support for the bar *g*. Of course, where other forms of rails are employed, the connection between the brackets and the rails

50 may be correspondingly varied, and of course said stripper device may be mounted on any desired support.

In order to adjust the angle of the flat bar *g* to any desired set, and to enable its vertical adjustment with respect to the conveyer, I provide the respective bracket-arms with vertically extending slots *m* and provide the bar *g* with threaded extensions, projecting through said slots. Nuts mounted upon said

65 threaded extensions, one on the inside of each bracket, and one, together also with a jam-

nut, if required, on the outside of each bracket, will operate to bind said bar in any selected position of vertical or rotative adjustment.

Where forms of traveling conveyers, other than that herein depicted, are employed, the arrangement of the stripper-bar may be varied accordingly.

In Figure 1 of the drawings, the traveling 75 conveyer is supposed to be moving to the right, and the stripper-bar has just operated to slip from the finger *f* the article *i*, and will strip another article *i* from the succeeding finger *f*, as soon as in the travel of the conveyer said 80 article encounters and is arrested by said bar.

I prefer that the relation between the fingers *f* and the recesses *h* should be as shown such that the lower portions of said fingers will in passing the stripper-bar drag over or 85 encounter the bottoms of said recesses.

As will be understood, the bottom and sides of a recess constitute article engaging members, each of which faces or confronts a side of a finger other than that or those confronted 90 by another or the others of said members. The broad faced plate, with a recess or recesses in its upper edge, is, however, the preferred arrangement. The breadth of the portions adjacent to the recesses overcomes any 95 tendency of the garments which encounter the stripping device to curl around it. I do not claim the inventorship of the traveling conveyer or of rearwardly extending fingers either broadly or in the form illustrated and 100 described.

I do not, of course, restrict myself to passages or recesses of the precise form illustrated in the drawings. In the employment of the apparatus shown in the drawings, it is 105 manifest that according to the form, bulk and disposition of the articles upon the fingers will depend the number of edges or members of said recesses which will act against the articles to occasion their withdrawal from 110 the fingers.

Having thus described my invention, I claim—

1. In a clothes drying apparatus, in combination with a traveling conveyer having a series of rearwardly extending fingers, a stripper 115 consisting of a rigidly supported plate, extending beneath and transversely with respect to said conveyer and its fingers.

2. In a clothes drying apparatus, in combination, a traveling conveyer having a series of rearwardly extending fingers, a stripper device consisting of a bar extending transversely beneath said conveyer and having upwardly extending members between which 120 said fingers pass, said bar in the region below the open space between said upwardly extending members having an approximately flat downwardly extending face.

3. In combination, in a clothes drying 130 apparatus, a traveling conveyer having rearwardly extending fingers, a stripper consist-

ing of a rigidly supported structure having an open topped passage into which said fingers extend in the travel of the conveyer.

4. In a drying apparatus for a laundry, in combination, a traveling conveyer having a series of fingers for supporting garments, and a stripper device provided with an open topped passage, through and against the bottom of which passage said fingers are drawn in the travel of the conveyer, substantially as set forth.

5. In a drying apparatus for a laundry, in combination with a traveling conveyer having a rearwardly extending finger, a stripper device having an open topped passage through and against the bottom of which said finger is drawn in the travel of the conveyer, and means for varying the vertical adjustment of said stripper device, substantially as set forth.

6. In a drying apparatus for a laundry, in combination with a traveling conveyer having a rearwardly extending finger, a stripper device having an open topped passage through and against the bottom of which said finger is carried in the travel of the conveyer, and means for adjusting the inclination of said stripper device, substantially as set forth.

7. In a drying apparatus for a laundry, a stripper device having an approximately horizontal article engaging member, and two article engaging members extending upward from said first named engaging member, means for varying the vertical adjustment of said stripper device, and means for adjusting the inclination of said stripper device, substantially as set forth.

8. In a drying apparatus for a laundry, a traveling conveyer having two series of clothes supporting devices, a stripper device arranged beneath said conveyer and having two open topped passages, into which respectively clothes supporting devices of the respective series extend in the travel of the conveyer.

9. In a drying apparatus for a laundry, a traveling conveyer, a transversely extending stripper plate disposed beneath said conveyer, and means for adjusting the rotative set of said plate.

10. In a drying apparatus for laundries, a traveling conveyer, a transversely extending stripper plate disposed beneath said conveyer, and means for adjusting the vertical set of said plate.

11. In a drying apparatus for a laundry, in combination, a traveling conveyer having two series of rearwardly extending fingers, a stripper device extending beneath and transversely with respect to said conveyer, and having two approximately U-shaped pas-

sages, through and against the bottom of which passages said respective series of fingers are drawn in the travel of the conveyer.

12. In a drying apparatus for a laundry, in combination, a traveling conveyer having two series of rearwardly extending fingers, a stripper device extending beneath and transversely with respect to said conveyer, and having two approximately U-shaped passages, through and against the bottoms of which passages said respective series of fingers are drawn in the travel of the conveyer, and means for varying the vertical adjustment of said stripper device.

13. In a drying apparatus for a laundry, in combination, a traveling conveyer having two series of rearwardly extending fingers, a stripper device extending beneath and transversely with respect to said conveyer, and having two approximately U-shaped passages, through and against the bottom of which passages said respective series of fingers are drawn in the travel of the conveyer, and means for varying the rotative adjustment of said stripper device.

14. In a drying apparatus for laundries, in combination, a pair of rails a conveyer provided with rearwardly extending fingers, a pair of brackets supported from the rails, a stripper device, the respective ends of which are entered in vertically extending slots in the respective brackets, and means for securing said ends in selected positions intermediate of the length of said slots, substantially as set forth.

15. In a drying apparatus for laundries, in combination, a pair of rails a conveyer provided with two series of rearwardly extending fingers, a pair of brackets supported from the rails, a stripper device, the respective ends of which are supported in, and free for rotative adjustment with respect to, the brackets, and means for securing said ends in various positions of rotative adjustment.

16. In a drying apparatus for laundries, in combination, a support, a conveyer supported upon and adapted to travel with respect to said support and having fingers, a pair of slotted brackets, a broad faced stripper device embodying recesses for said fingers and extending as to its respective ends within the slots of the brackets, and means for securing said device in said slots, substantially as set forth.

In testimony that I claim the foregoing as my invention I have hereunto signed my name this 23d day of May, A. D. 1902.

JOHN LINGO.

In presence of—

S. SALOME BROOKE,
F. NORMAN DIXON.