

J. E. KELSO & G. BINDER.
CLOTHES DAMPENING MACHINE.
APPLICATION FILED OCT. 12, 1911.

1,129,990.

Patented Mar. 2, 1915.

2 SHEETS-SHEET 1.

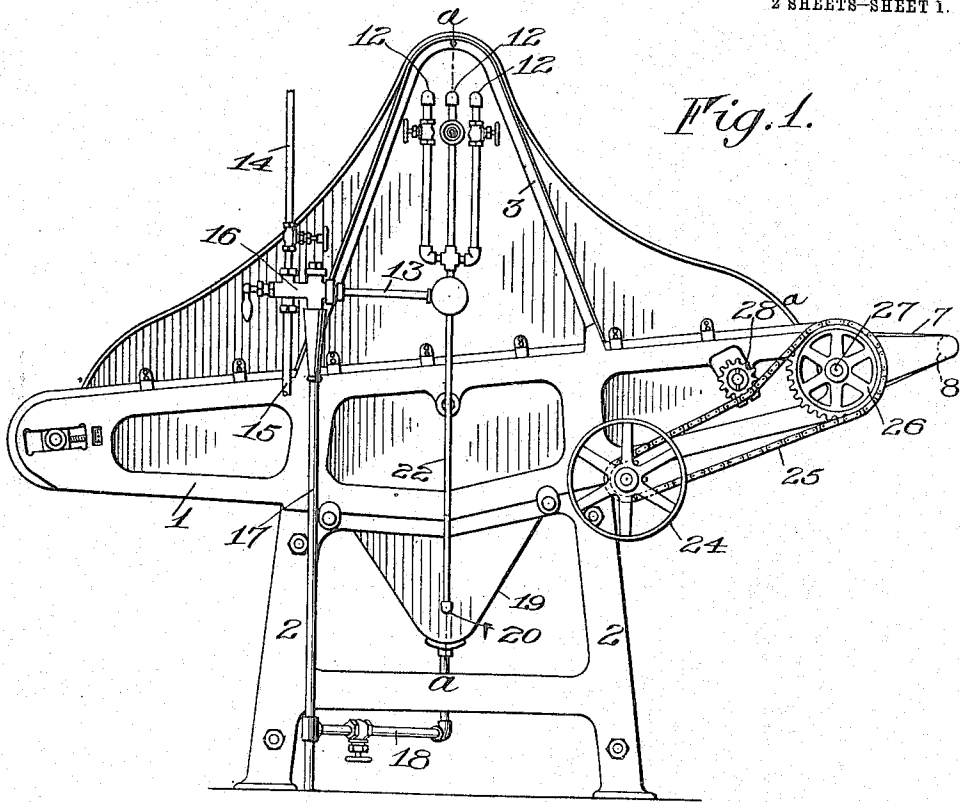


Fig. 1.

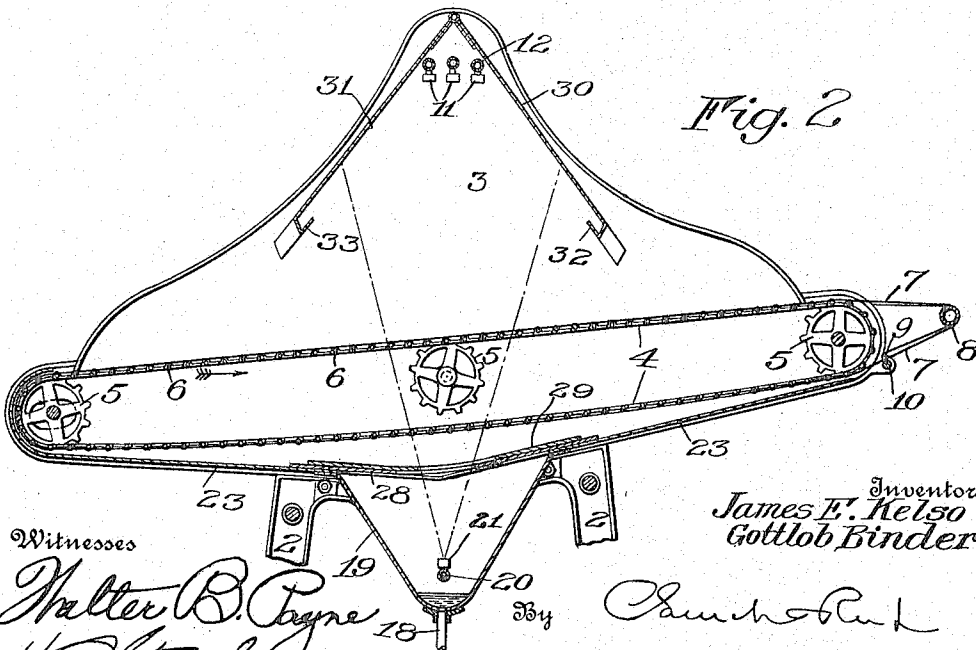


Fig. 2.

Witnesses

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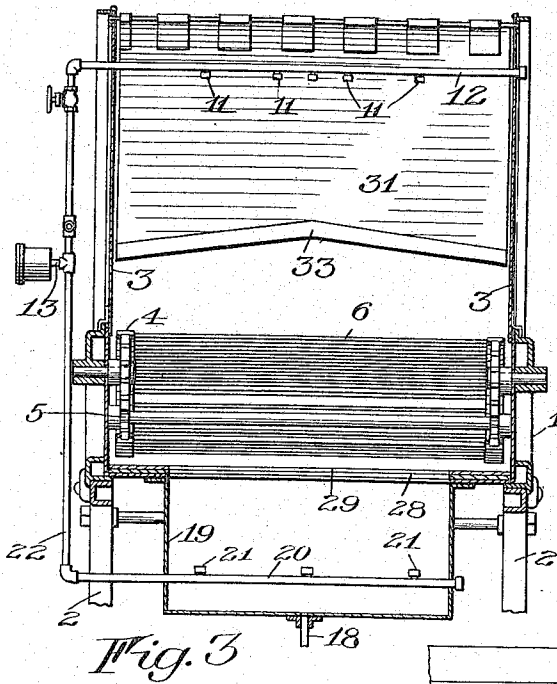


Fig. 3

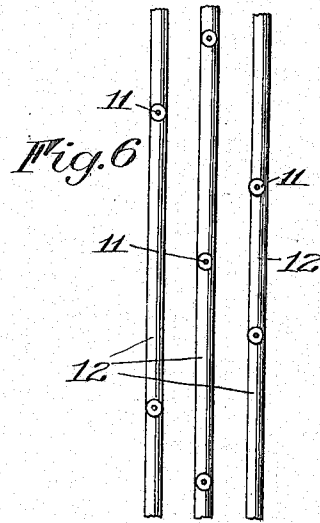


Fig. 6

Fig. 4.

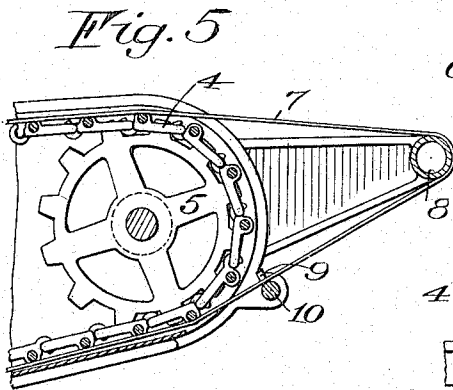
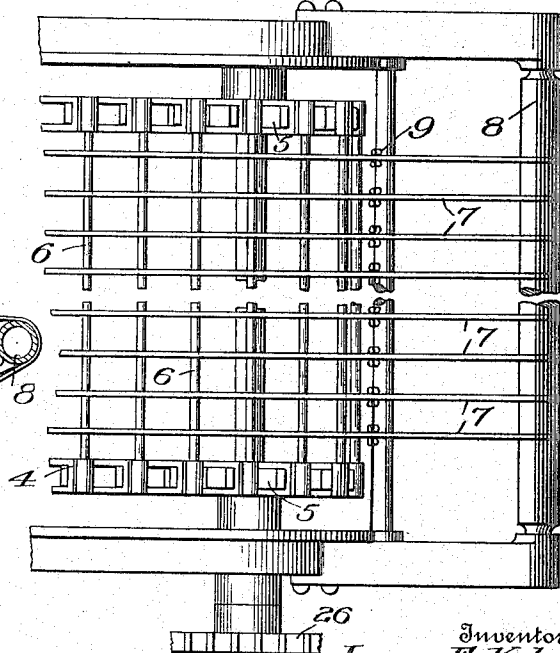


Fig. 5



Witnesses

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CLOTHES-DAMPENING MACHINE.

1,129,990.

Specification of Letters Patent.

Patented Mar. 2, 1915.

Application filed October 12, 1911. Serial No. 654,331.

To all whom it may concern:

Be it known that we, JAMES E. KELSO and GOTTLLOB BINDER, both of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Clothes-Dampening Machines; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference numerals marked thereon.

The present invention relates to clothes dampening machines, and it has for its object to provide means for dampening articles of clothing in laundries, in an improved and more efficient manner.

A further object of the invention is to enable a person to dampen large quantities of clothes more expeditiously, and so that the moisture will be evenly distributed throughout the texture of the goods and on both surfaces.

Another object of the invention is to obviate the necessity of individually handling each article, while being dampened, the present construction making provision for taking the pieces as they are fed to the machine by the operator, and automatically dampening and delivering them into a suitable receptacle.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 is a view in side elevation of a dampening machine embodying a preferred form of the invention; Fig. 2 is a longitudinal, vertical sectional view of the same; Fig. 3 is a transverse, vertical sectional view taken on the line *a-a* of Fig. 1; Fig. 4 is a plan view of the frame, and table-conveyer, with parts broken away; Fig. 5 is a detail sectional view of the table-conveyer, with parts broken away, and Fig. 6 is a detail inverted plan view of the upper spraying device, as employed in the present embodiment.

Similar reference numerals throughout the several figures indicate the same parts.

In the construction herein disclosed, which illustrates one embodiment of the invention, 1 designates a main supporting-

frame, which rests on the standards 2, and carries the upright portions 3 for a purpose to be described hereinafter. Arranged within the main supporting-frame is a table-conveyer, or traveling platform, which preferably includes the endless chains 4 traveling about the sprocket wheels 5, and connected by the transverse rods or bars 6. The table-conveyer travels in the direction indicated by the arrow in Fig. 2, the articles of clothing being placed thereon flatwise, at the lower end, and discharged at the upper end after the dampening operation is completed. The supporting-frame and table-conveyer are arranged at an angle, as shown, in order to enable a basket, or other suitable receptacle to be placed beneath the delivering end of the machine, while at the same time the feeding end is at a proper elevation to enable the operator to position the clothes readily upon the table-conveyer. In order to discharge the articles of clothing at the delivery end of the machine, and to have them rest properly on the table-conveyer, the latter preferably includes a plurality of longitudinally arranged cords, or other suitable flexible members 7 which pass over the roller 8 at the delivery end of the machine, and are guided by pins, or other suitable spacing members 9 arranged on the cross bar 10. The cords 7 travel in contact with the conveyer and are supported by the rods 6 at the receiving end of the machine, thereby serving to maintain the articles of clothing in proper position and to carry them off from the conveyer at the delivery end of the machine.

The clothes are dampened, while moving through the machine by means of spraying devices, preferably arranged above and below the table-conveyer, and in the present embodiment, the upper spraying device comprises a series of nozzles 11 carried by the pipes 12, the latter being connected to the supply pipe 13 which furnishes the spraying liquid, preferably in the form of a mixture of steam and water, the steam entering from inlet 14 and the water from inlet 15, and being intermingled by the injector 16.

17 is an overflow pipe, which is connected by the pipe 18 to the catch pan 19 arranged beneath the table-conveyer and in which the water collects.

The lower spraying device preferably comprises pipe 20 provided with nozzles 21,

and suitably connected to the supply pipe by means of the pipe 22, said lower spraying device being preferably disposed above the bottom of the catch pan 19 as shown. The main supporting frame is provided with a bottom 23, to which the catch pan 19 is connected at the center, as shown in Fig. 2.

The table-conveyer may be moved in any suitable manner, as in the present embodiment, by means of power applied to the pulley 24 which carries a suitable sprocket, a chain 25 having engagement with said sprocket and with the sprocket wheel 26 mounted on the shaft 27.

28^a is a chain-tightening sprocket wheel, preferably arranged as shown in Fig. 1.

In order properly to direct the lower spray onto the lower surface of the clothes and to prevent the spray from striking the operator at the end of the machine, there may be provided means arranged between the spraying device and the table-conveyer for limiting the lateral spreading of the spray, the same including in the present embodiment, a pair of baffle plates 28 and 29, which extend across the bottom and are provided with centrally disposed openings as shown. The lower baffle plate 28 rests directly on the bottom 23, and constitutes a support for the upper baffle plate 29, which may be moved relatively thereto so as to decrease or enlarge the opening through which the spray passes. By adjusting the baffle plates relatively to each other, the extent of lateral spreading of the spray can be accurately controlled.

Arranged above the upper spraying device is a hood, which preferably comprises the downwardly extending plates 30 and 31 pivotally arranged on the upright portions 3. The hood serves to direct the upper spray, and to catch the steam and water from the lower spray and throw the same back onto the table-conveyer and into the catch pan below. It is quite essential that none of the condensed steam, or water, fall onto the articles of clothing in the form of

drops, as this causes spotting of the clothes, and to this end, the plates 30 and 31 of the hood are provided at their lower edges with drip receivers, the same, in the present embodiment, consisting of flanges 32 and 33 which extend from the middle of the hood downwardly toward the sides thereof as shown in Fig. 3, so as to catch the water that may run down the inner surfaces of the hood, and carry it off to the sides where it may be discharged without coming in contact with the clothes on the table-conveyer.

While the invention has been shown and described herein embodying a preferred form, it is to be understood that it is not limited to the exact construction and arrangement of parts set forth, but may be modified, without departing from the essential features, as comprehended by the claims hereinafter.

We claim as our invention:

1. In a clothes dampening machine, the combination with a traveling table-conveyer adapted to support articles of clothing flatwise, of a spraying device arranged above the table-conveyer and directed toward the same, a hood extending from above the spraying device downwardly about the same, and drip receivers formed inwardly of the hood at its lower edges.

2. In a clothes dampening machine, the combination with a traveling conveyer, of a spraying device arranged above the conveyer and directed downwardly toward the same, a hood extending from above the spraying device downwardly about the latter, the lower edges of the hood being inclined from the center downwardly and provided with inwardly and upwardly directed flanges for catching the drip and carrying it to the sides of the machine.

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