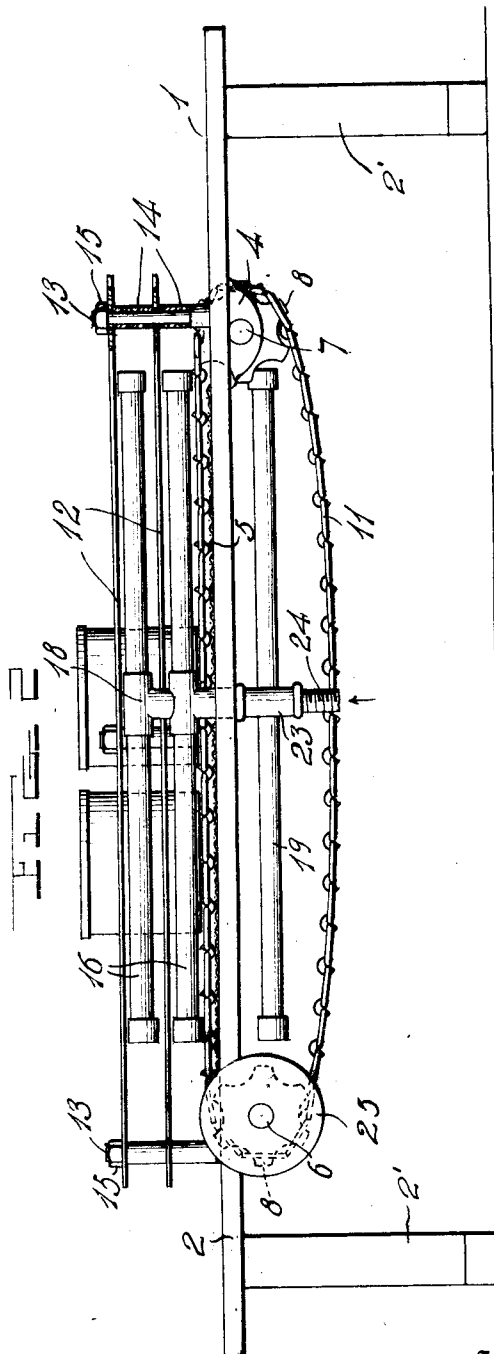
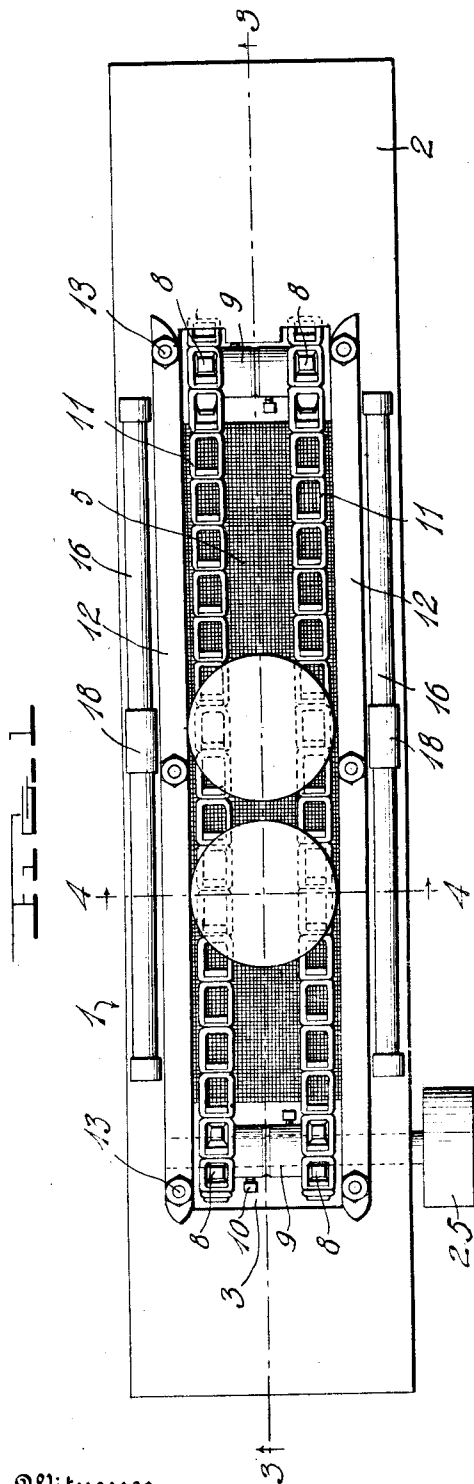


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1,055,843.

Patented Mar. 11, 1913.

2 SHEETS—SHEET 1.



Witnesses

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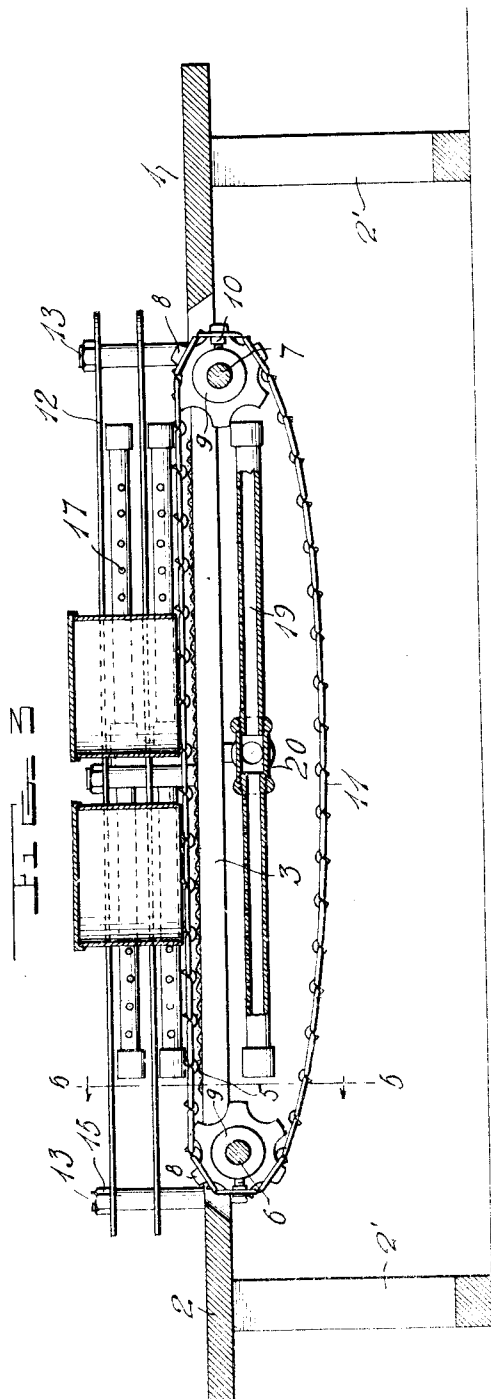


FIG. 3

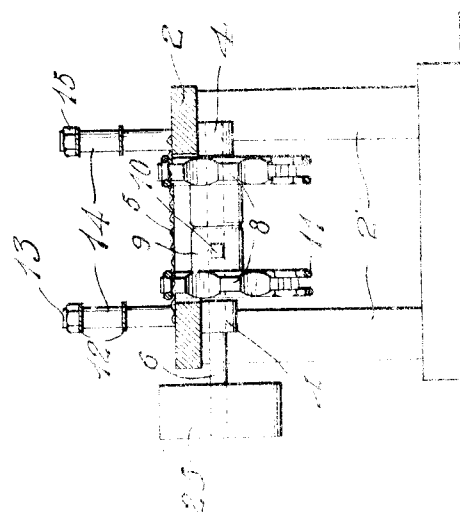
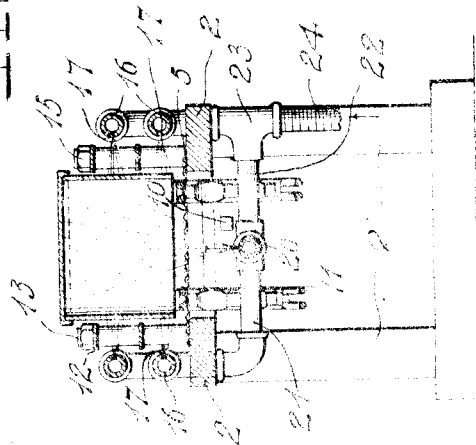


FIG. 4



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UNITED STATES PATENT OFFICE

CHARLES H. WARREN, OF CATHLAMET, WASHINGTON.

CAN-WASHING MACHINE.

1,055,843.

Specification of Letters Patent.

Patented Mar. 11, 1913.

Application filed October 7, 1912. Serial No. 724,461.

To all whom it may concern:

Be it known that I, CHARLES H. WARREN, a citizen of the United States, residing at Cathlamet, in the county of Wahkiakum and State of Washington, have invented certain new and useful Improvements in Can-Washing Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in can washing machines.

One object of the invention is to provide a can washing machine having an improved construction and arrangement of conveying mechanism whereby the cans are brought into position to receive the sprays of water discharged from the washing mechanism.

Another object is to provide a machine of this character which will be simple, strong, and durable, efficient and reliable in operation and which will simultaneously wash the inside and the outside of the cans.

With these and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings: Figure 1 is a plan view of my improved can washing machine. Fig. 2 is a side view thereof. Fig. 3 is a central vertical longitudinal section of the same taken on the line 3—3 of Fig. 1. Fig. 4 is a vertical cross sectional view taken on the line 4—4 of Fig. 1. Fig. 5 is a similar view taken on the line 5—5 of Fig. 3.

In the embodiment of the invention as shown in the present instance, I provide a supporting stand or table 1 comprising a top 2 and supporting legs 2'. In the top 2 is formed a centrally disposed longitudinal opening 3 and on the lower side of the table top near the ends of said opening are secured shaft bearing brackets 4. Arranged over the opening 3 and extending to near the ends thereof, is a wire netting cover 5 the edges of which are secured to the top of the table along the edges of the opening 3 as shown.

Revolubly mounted in the brackets 4 are sprocket gear shafts 6 and 7 on which are fixedly mounted pairs of sprocket gears 8, the hubs 9 of which project inwardly on the shafts and are provided with set screws

which engage the shafts and hold the sprocket gears against turning thereon. The inner ends of the hubs 9 engage and thereby positively hold the gears spaced apart the proper distance. Operatively engaged with the sprocket gears 8 are can conveying chains 11 the upper stretches of which are adapted to support the cans and to convey the same across the table 1 in position to receive the sprays of water ejected from the washing mechanism as hereinafter described.

The cans are held in position on and guided in their movement across the top of the table by pairs of parallel, flat, can guiding bars 12 which are arranged along the opposite sides of the opening 3 on the top of the table with their flat faces arranged parallel to the table top and their inner edges positioned in close proximity to the sides of the cans to be washed. The bars 12 are supported and held in parallel relation one above the other along the opposite sides of the opening 3 by posts or standards 13 which are secured at their lower ends in the top of the table and have arranged thereon upper and lower spacing sleeves 14 one of which is disposed between the lower plate and the top of the table, and the other of which is arranged between the upper and lower plates, whereby said plates are spaced apart and held in position on the posts. The upper ends of the posts 13 are threaded and have screwed thereon clamping nuts 15 whereby the plates 12 and the sleeves 14 are clamped together and firmly held in position on the posts. The ends of the guide bars or plates 12 are rounded on their ends to facilitate the entrance and passage of the cans between said bars.

The cans when carried across the table in the manner described are thoroughly washed on their outer sides by sprays of water which are ejected from and thrown against the outer sides of the cans from pairs of spray pipes 16 which are arranged on the top of the table along and adjacent to the outer edges of the parallel guide bars 12. The pipes 16 are arranged one above the other in parallel relation and are disposed opposite the spaces between the guide bars and between the lower guide bar and the top of the table and have in their inner faces series of water discharging perforations through which the water is forcibly ejected in sprays onto the sides of the cans as they

are conveyed across the table in the manner described. The flat guide bars perform the double function of guides for the cans and means for preventing the water ejected from the pipe 16 onto the cans from splashing and wetting surrounding objects. The pipes 16 are closed on their outer ends by suitable caps and are connected intermediate their ends to T couplings 18. The cans when moved across the table are washed on their inner faces by sprays of water ejected from a pipe 19 which is arranged below the opening 3 in the table and extends longitudinally at a suitable distance below the screen 5 as shown. The pipe 19 is closed on its outer ends by suitable caps and is connected intermediate its ends to a four-way coupling 20 one member of which is also connected by a short water conducting pipe 21 to the lower T coupling of the pipe 16 on one side of the table while the other member of the four-way coupling is connected by a short pipe 22 with a T coupling 23 which is connected with the pipes on the opposite side of the table and to which is connected a main water supply pipe 24. By thus arranging the water supply and spray pipes and the plates or bars 16, it will be seen that the water is supplied to all of said pipes and is simultaneously ejected therefrom through the perforations therein thus washing both the inside and outside of the cans, at the same time, while they are being conveyed across the table. By arranging the screen cover 6 beneath the upper stretches of the can conveying chains, it will be seen that the screen will effectually support said upper stretches of the chains and the cans carried thereby and assist in breaking up the jets of water from the pipe 19 into spray.

The can conveying chains may be operated in any suitable manner, said chains

being shown in the present instance as being driven by a pulley 25 which may be connected by a belt to a motor or other operating mechanism (not shown).

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as claimed.

Having thus described my invention, what I claim is:—

1. A can washing machine comprising a table, can conveying means mounted on said table, laterally spaced spray pipes arranged on opposite sides of said can conveying means, and flat laterally spaced can guiding bars positioned to prevent the splashing of the water sprayed from said pipes onto adjacent objects.

2. A can washing machine comprising a table, can guiding bars vertically spaced above said table, a series of vertically spaced can spraying pipes having their outlets arranged to discharge water beneath said guiding bars, a branch spraying pipe spaced from said table and having its outlets directed to discharge in a direction at right angles to that of the first mentioned pipes, and means for conveying cans past said spraying pipes.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES H. WARREN.

Witnesses:

JOHN C. HUGHES,
HAZEL G. WHITE.