Dec. 26, 1950 J. J. KUBIAK 2,535,428

CLOTHESLINE WASHER

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Fig. 1.

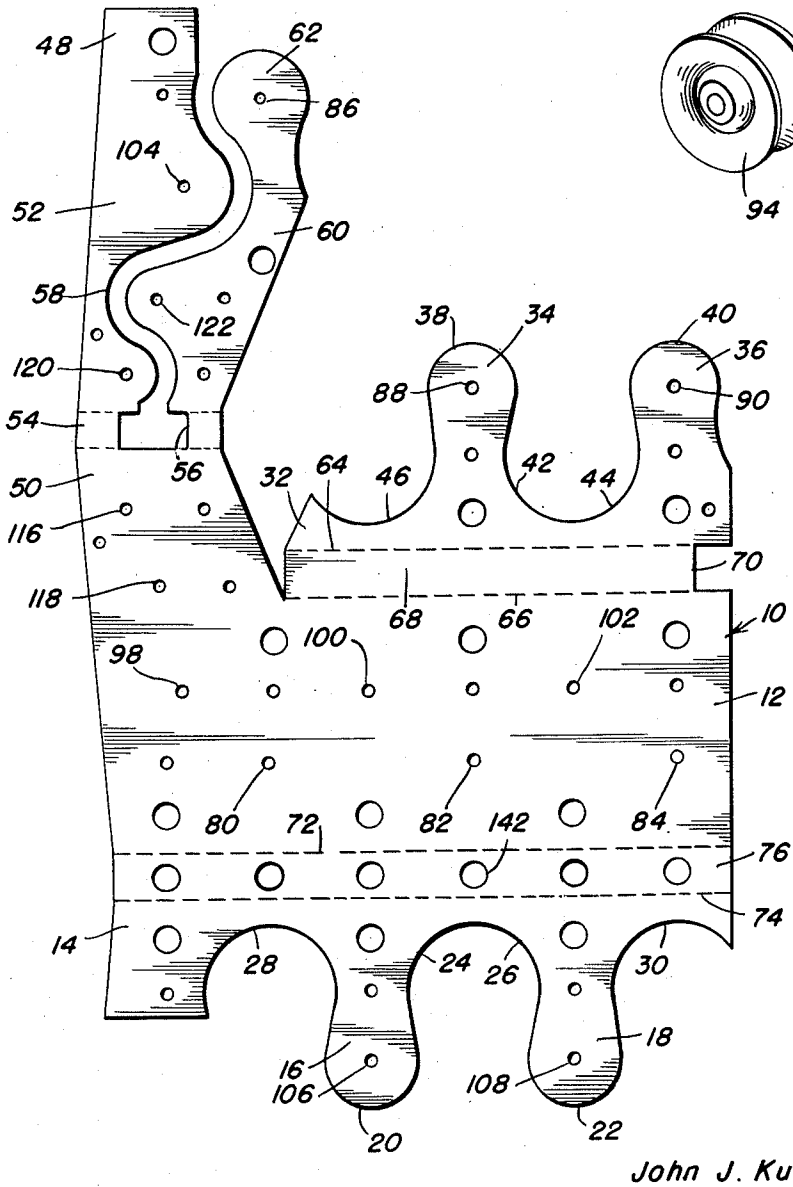


Fig. 5.

John J. Kubiak
INVENTOR.

BY Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

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Fig. 2.

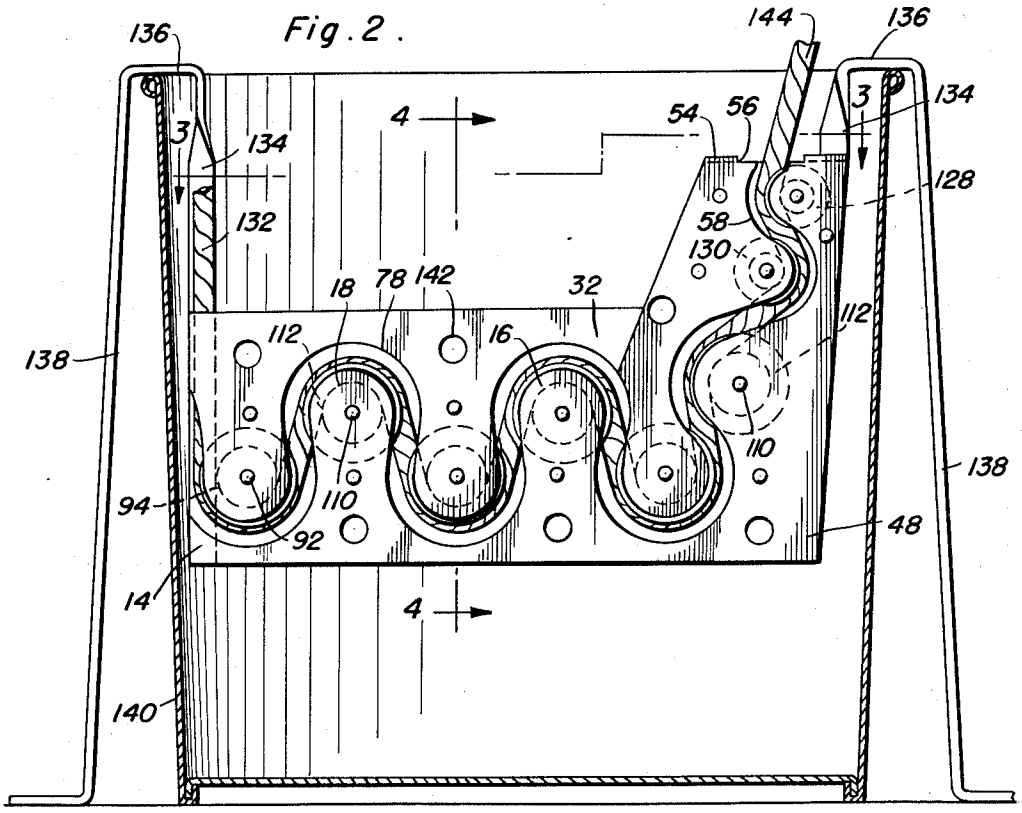


Fig. 4.

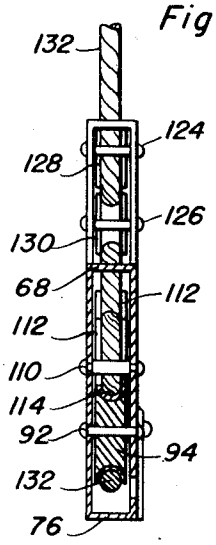
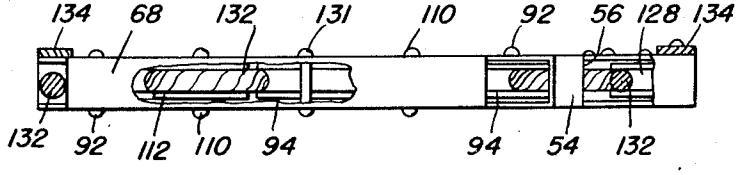


Fig. 3.



John J. Kubiak
INVENTOR.

BY Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

Patented Dec. 26, 1950

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UNITED STATES PATENT OFFICE

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CLOTHESLINE WASHER

John J. Kubiak, Brooklyn, N. Y.

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4 Claims. (Cl. 68—175)

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This invention relates to new and useful improvements in devices for washing clotheslines and the like and the primary object of the present invention is to provide a pair of side walls extendable into a washing fluid and embodying a novel and improved arrangement of washing rollers about which a clothesline is trained to be pulled between the side walls and through a washing fluid in which the rollers are submerged.

Another important object of the present invention is to provide a clothesline washer including a plurality of upper washing rollers and lower washing rollers about which is trained a flexible line, and novel and improved means for rinsing the line after the same has been pulled through the upper and lower rollers.

A further object of the present invention is to provide a device for washing and rinsing clotheslines and the like including a pair of side walls supporting therebetween a group of rollers, and a continuous opening provided in one of the side walls whereby clothesline may be entrained about the rollers in a convenient manner.

A still further aim of the present invention is to provide a clothesline washer that is simple and practical in construction, strong and reliable in use, small and compact in structure, neat and attractive in appearance, relatively inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a plan view of the back forming the roller housing that is used in conjunction with the present invention;

Figure 2 is a side elevational view showing the present invention in use and applied to a receptacle containing a washing fluid, and with parts of the receptacle broken away and shown in section;

Figure 3 is a longitudinal sectional view taken substantially on the plane of broken section line 3—3 of Figure 2, showing the present invention removed from the receptacle, and with parts of the same broken away and shown in section;

Figure 4 is a transverse vertical sectional view taken substantially on the plane of section line 4—4 of Figure 2; and,

Figure 5 is a perspective view of one of the

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washing rollers or wheels that is used in conjunction with the present invention.

Referring now to the drawings in detail, wherein for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents generally, the blank or sheet of rust-proof metal that forms the roller housing or casing that is used in conjunction with the present invention. This blank 10 includes a substantially rectangular side member or wall 12 one longitudinal edge of which is integrally formed with a longitudinal extension 14 that forms the lower portion of a further side wall which opposes the side wall 12. The extension 14 is provided with a pair of longitudinally spaced, outwardly projecting arms or ears 16 and 18 having rounded outer edges 20 and 22, rounded and connected inner side edges 24 and 26, and further rounded or arcuate inner side edges 28 and 30.

Integrally formed with a portion of the remaining longitudinal edge of the side member 12, is an extension 32 that forms the upper portion of the side wall opposing the side wall 12. The extension 32 is provided with longitudinally spaced, outwardly projecting arms or ears 34 and 36 that are provided with rounded outer edges 38 and 40, and connected inner arcuate side edges 42 and 44. The ear 34 is further provided with an arcuate inner side edge 46. The numeral 48 represents a further extension that is integrally formed with the side wall 12, adjacent the extension 32. This latest extension 48 includes a first upper side portion 50 and an elongated second upper side portion 52 that are connected by an integral strip 54. A central slot or opening 56 is provided in the strip 54 and communicates with one end of an undulated opening 58 that extends throughout the length of the extension 48. One side 60 of the extension 48 terminates in a rounded portion or ear 62 for a purpose which will later be more fully apparent.

It should be noted, that spaced parallel fold lines 64 and 66 are provided in the extension 32 between which there is formed an upper wall or strip 68 that is notched at one end as at 70 to provide an entrance opening. Also, there is provided a pair of spaced parallel fold lines 72 and 74 on the extension 14 forming a lower wall or strip 76 therebetween.

In forming the roller housing, the extension 14 is folded upwardly and the extension 32 is folded downwardly so that the ears 16 and 18 are loosely positioned on opposite sides of the

ear 34 and there exists an undulated opening 78 between the extensions 14 and 32. The upper side of extension 48 is folded downwardly and secured in spaced relationship to the extension 14 with the rounded portion 62 spaced relative to the arcuate edge 28 and the undulated openings 58 and 78 communicating with each other.

Extending transversely between longitudinally spaced openings 80, 82 and 84 provided in the side wall 12 and openings 86, 88 and 90 provided in the ears 62, 34 and 36 respectively, is a plurality of lower axles 92 that rotatably support lower washing wheels or rollers 94 having annular grooves 96.

Extending transversely between longitudinally spaced openings 98, 100 and 102 in the side wall 12, and openings 104, 106 and 108 provided in the extension 48, and ears 16 and 18 respectively, is a plurality of upper axles 110 that support upper washing rollers or wheels 112 which are also formed with annular rope engaging grooves 114. The upper rollers 112 are staggered relative to the lower rollers 94 for a purpose which will later be more fully apparent.

Fixed between openings 116 and 118 provided in the upper side portion 50 and opposing openings 120 and 122 provided in the upper side portion 52, is a pair of further axles 124 and 126 that rotatably support a pair of rinsing rollers 128 and 130.

It is preferred, that the extensions 14, 32 and 48 be fixed to and spaced from the side wall 12 by a plurality of rivets and the like 131 which are so located as not to interfere with the engaging of a rope 132 about the rollers.

In practical use of the present invention, the depending ends 134 of a pair of hook elements 136 are fixed to the side wall 12. These hook elements 136 are integrally formed with support legs 138 that will retain the present clothesline washing apparatus within a suitable receptacle 140 containing a suitable cleaning fluid. It is preferred, that the side wall 12 and extensions 14, 32 and 48 be provided with suitable water vents 142 that will permit cleaning fluid to enter the roller housing to engage a clothes rod or the like which is entrained above the rollers.

One end of the rope or clothesline 132 is extended through the undulated openings 78 and 58 and the said rope or clothesline is trained over the upper rollers 112, under the lower rollers 94, and between the rinsing rollers 128 and 130. As the free end 144 of the rope 132 is pulled through the opening 56, the rope will be washed by the rollers 94 and 112, and the rinsing rollers 128 and 130 are so disposed as to frictionally engage the rope and force the cleaning fluid therefrom.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A clothesline cleaner comprising a roller support, said roller support being constructed from a single blank of material and including a first side wall, a pair of extensions adapted to form a second side wall, strips securing said extensions to said first side wall, said strips forming an upper wall and lower wall respectively, a pair of ears carried by each of said extensions, the ears of one extension being staggered with respect to the ears of the other extension, a plurality of shafts carried by said ears and said first side wall and a further extension integrally formed with said first side wall, and having first and second portions and a strip joining said portions, said second portion being secured to said first side wall and coplanar with said pair of extensions, said second portion including an ear disposed adjacent one ear of one of said pair of extensions, further shafts carried by said first and second portions, and rollers mounted on said plurality of shafts and said further shafts.

2. A clothesline cleaner comprising a roller support, said roller support being constructed from a single blank of material and including a substantially rectangular side member, first and second extensions, strips securing said extensions to the longitudinal side edges of said side member, first and second ears carried by each of said extensions, and a further extension projecting laterally from one longitudinal side edge of said side member, said further extension including first and second portions, an ear carried by the second portion of said further extension, means securing said first portion to said second portion, further means securing the first and second ears of first and second extensions to said side member, the ear carried by said second portion being disposed adjacent the first ear of said first extension, the ears of said first extension being staggered with respect to the ears of said second extension, and rollers mounted on said securing means and said further securing means.

3. A clothesline cleaner comprising a roller support, said roller support being constructed from a single blank of material and including a substantially rectangular side member, first and second extensions, strips securing said extensions to the longitudinal side edges of said side member, first and second ears carried by each of said extensions and a further extension projecting laterally from one longitudinal side edge of said side member, said further extension including first and second portions, an ear carried by the second portion of said further extension, means securing said first portion to said second portion, further means securing the first and second ears of first and second extensions to said side member, the ear carried by said second portion being disposed adjacent the first ear of said first extension, the ears of said first extension being staggered with respect to the ears of said second extension, and rollers mounted on said securing means and said further securing means, the ears of said first extension being spaced from the ears of said second extension to provide an undulated rope receiving slot, said second portion of said further extension having a rope receiving slot communicating with the first-mentioned rope receiving slot.

4. A clothesline cleaner comprising a roller support, said roller support being constructed from a single blank of material and including a substantially rectangular side member, first and second extensions, strips securing said extensions to the longitudinal side edges of said side member, first and second ears carried by each of said extensions and a further extension projecting laterally from one longitudinal side edge of said

side member, said further extension including first and second portions, an ear carried by the second portion of said further extension, an upper pair of shafts securing the ears of said second extension to said side member, upper rollers mounted on said upper shafts, a lower pair of shafts securing the ears of said first extension to said side member, lower rollers mounted on said lower shafts, a plurality of vertically spaced horizontal shafts securing said first portion to said second portion, and further rollers mounted on said plurality of horizontal shafts, said second portion of said further extension being coplanar with the ears of said first and second extensions.

JOHN J. KUBIAK.

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