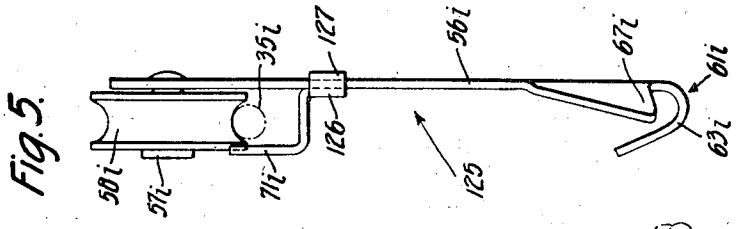
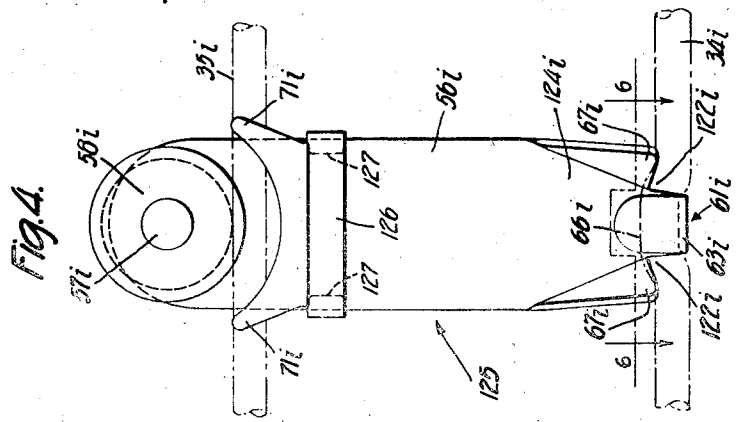
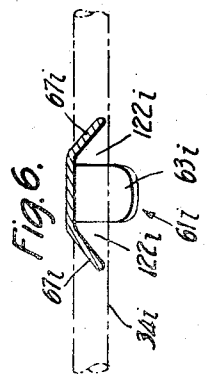
Dec. 21, 1948. J. WALDHEIM 2,456,658

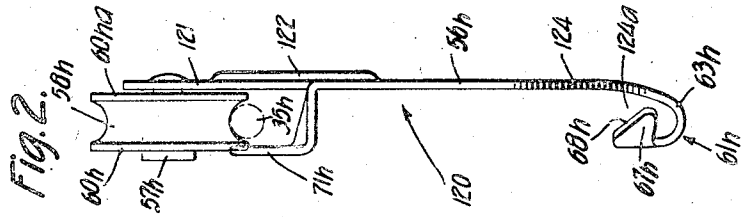
CLOTHESLINE HOLDER

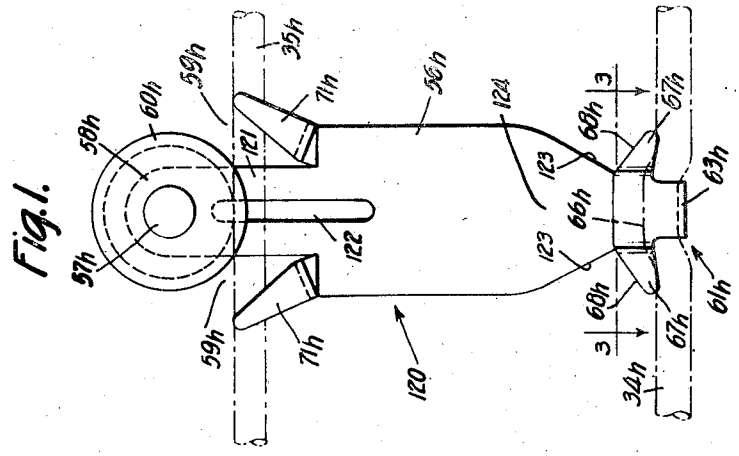
Original Filed Dec. 5, 1938 3 Sheets-Sheet 1

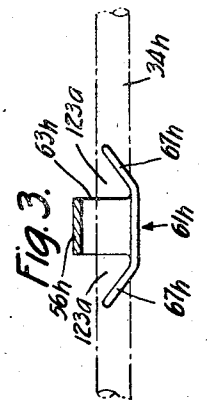












INVENTOR.

John Waldheim

Dec. 21, 1948. J. WALDHEIM 2,456,658

CLOTHESLINE HOLDER

Original Filed Dec. 5, 1938 3 Sheets-Sheet 2

Fig. 12.

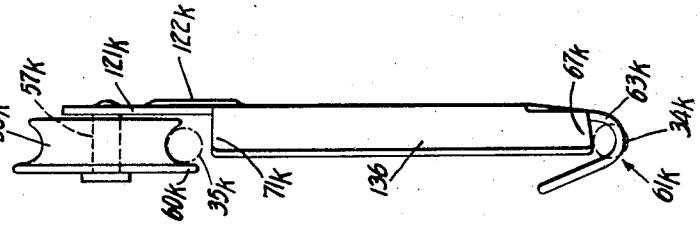


Fig. 11.

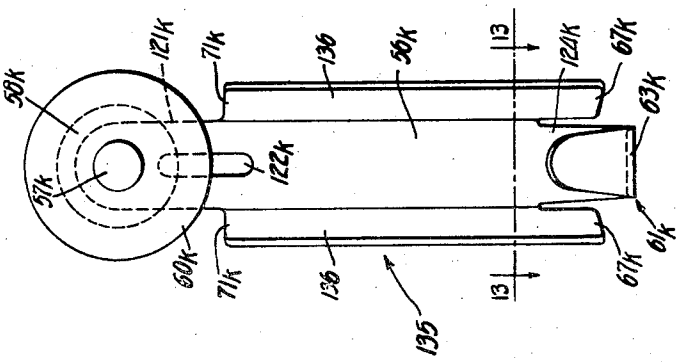


Fig. 13.

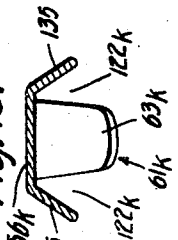


Fig. 8.

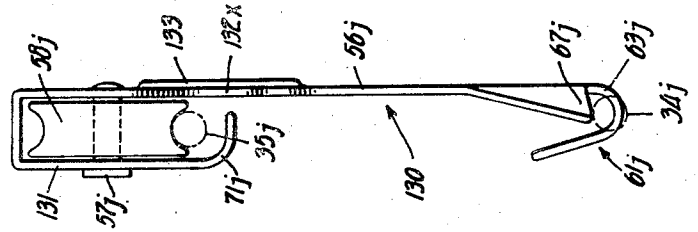


Fig. 7.

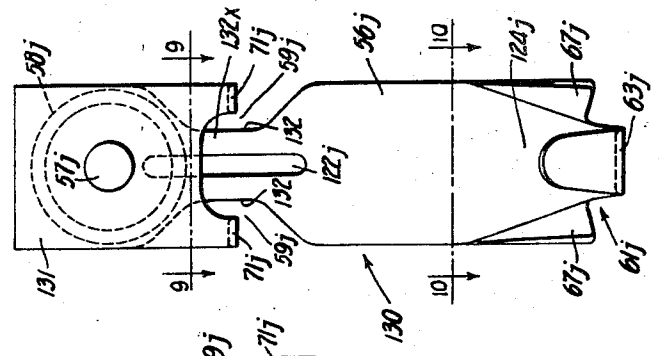


Fig. 10.

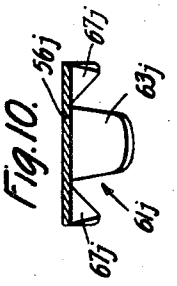
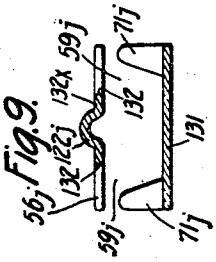


Fig. 9.



INVENTOR.

John Waldheim

Dec. 21, 1948. J. WALDHEIM 2,456,658

CLOTHESLINE HOLDER

Original Filed Dec. 5, 1938 3 Sheets-Sheet 3

Fig. 17.

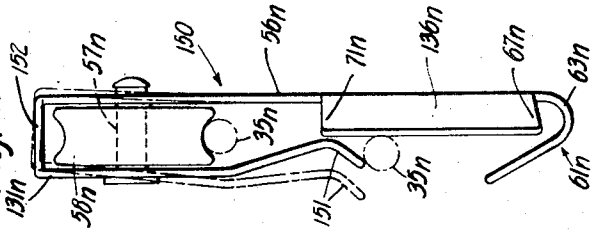


Fig. 16.

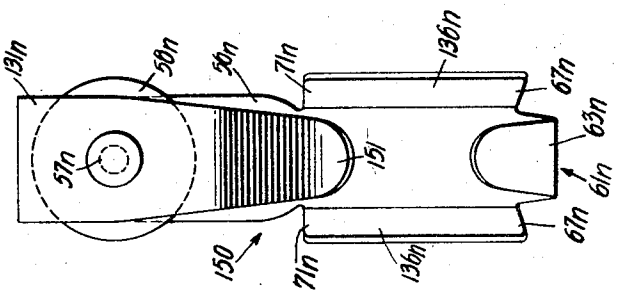


Fig. 15.

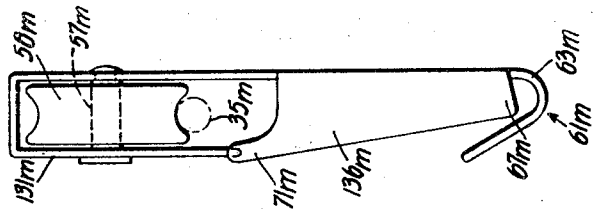
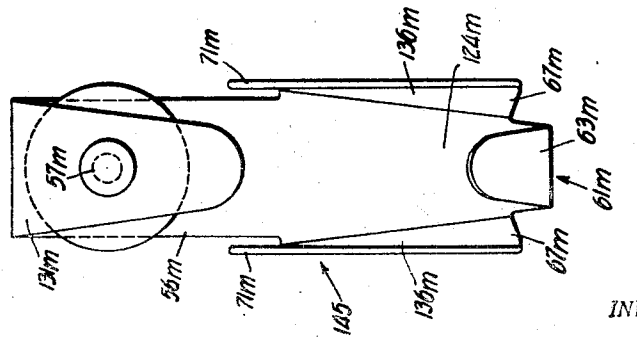


Fig. 14.



INVENTOR.

John Waldheim

Patented Dec. 21, 1948 2,456,658

UNITED STATES PATENT OFFICE

2,456,658

CLOTHESLINE HOLDER

John Waldheim, Elizabeth, N. J.

Original application December 5, 1938, Serial No. 243,955. Divided and this application January 5, 1944, Serial No. 517,288

22 Claims. (Cl. 211—119.02)

1

This invention relates to improvements in pulley clothes line holders or spacer and is a division of my application Ser. No. 414,665, filed October 11, 1941, which has matured into Patent No. 2,393,490, and this application which is a division of my application No. 243,955, filed December 5, 1938, now Patent 2,292,415, dated August 11, 1942.

Features of the invention relate to novel means for gripping one of the reaches of the clothes line, and means to prevent accidental detachment of the holder from the reaches.

Other features and advantages will hereinafter appear.

In the drawings, which form part of the specification:

Figs. 1 and 2 are front and end elevations, respectively, of one type of holder or spacer;

Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 1;

Figs. 4 and 5 are front and end elevations, respectively, of a modification of the type of holder shown in Fig. 1;

Fig. 6 is a horizontal section taken on the line 6—6 of Fig. 4;

Figs. 7 and 8 are front and end elevations, respectively, of another modification of the holder shown in Fig. 1;

Figs. 9 and 10 are horizontal sections taken on the lines 9—9 and 10—10, respectively, of Fig. 7;

Figs. 11 and 12 are front and end elevations, respectively, of still another modification of the type of holder shown in Fig. 1;

Fig. 13 is a horizontal section taken on the line 13—13 of Fig. 11; and

Figs. 14 to 17 are views of two further modifications of the types of holders shown in Figs. 1 and 11.

Similar reference characters represent similar parts throughout the specification.

The holder or spacer 120 shown in Figs. 1, 2 and 3 is provided with a roller 58*h* to rotate on a spindle 57*h* secured to an upwardly projecting extension 121 of the body part 56*h*, said extension being reinforced by a rib 122 pressed rearwardly therefrom. The holder is illustrated for use on an ordinary pulley clothes line having two reaches namely a lower, clothes carrying reach 34*h* and an upper, idle reach 35*h*, said reaches forming part of a loop supported at opposite ends by pulleys, not shown.

Guard fingers or keepers 71*h* are located one on each side of the extension 121. They project forwardly from the body part 56*h* and then upwardly into overlapping relation, as seen in Fig. 2, with the forward flange 60*h* of the roller 58*h*, to thus prevent accidental detachment of the holder from the reach 35*h* while the holder is in a vertical position on the clothes line. As seen in Fig. 1, the upwardly extending portions of the fingers 71*h* are diagonally disposed with reference to the body part 56*h* of the holder, or in other words, they extend outwardly away from each other to form, with the roller 58*h*, diagonal passage ways 59*h* which together form a bent slot through which the reach 35*h* may be passed to attach the holder to, or detach it from said reach, it being necessary to diagonally dispose the reach 35*h* and the holder with reference to each other in Fig. 1, first to one side of the roller 58*h* and to the opposite side, in order to pass the reach 35*h* through one of the passage ways 59*h* and then through the other. In this form of holder the flange 60*h* is the same size as the other flange 60*h*[a] at the rear of the roller 58*h*.

2

Means 61*h* is provided to secure the holder to the lower reach 35*h*. In this form of holder said means includes a single hook 63*h* to support the reach 34*h*. Said hook is bent up from the lower end of the body part 56*h* and is provided at its upper, free end with two, diagonally disposed guard members or keepers 67*h* to extend over the reach 34*h* and thus prevent accidental detachment of the latter from the holder. Said members 67*h* function also, in cooperation with the lower or curved portion of the hook 63, to form a bight 66*h* in the reach 34*h* to thus cause the holder 120 to travel with said reach. Still another function of the gripping means 61*h* in cooperation with the reach 34*h*, which is in a taut condition, is to keep the holder vertical to the reach 34*h* and thus prevent accidental movement of the upper reach 35*h* through the slots 59*h*. Maintaining of the holder in its vertical position also prevents it from getting into a position in which the forward extension of either keeper 71*h* may cooperate with roller 58*h* to press against or bind on the upper reach 35*h*. The inclined edges 68*h* of the guard members 67*h* facilitate movement of the reach 34*h* past said guard members while it is being inserted from above into the hook 63*h*.

The lower end of the body part 56*h* of the holder is cut away at its side edges, as seen at 123 in Fig. 1, to form a downwardly pointing tapered portion 124. The side edges 123 form with the keepers 67*h* passageways 123*a*, which together form a bent slot as seen in Fig. 3, through which

the reach 34*h* may be passed into or out of the hook 63*h*. In order to remove the reach from the hook a portion of the reach 34*h* and the holder may be diagonally positioned with reference to each other in Fig. 3 so that the reach 34 is clear of the guard member 67*h* at one side of the holder, after which the reach 34 may be moved upwardly past said guard member partly free of the gripping means 61*h*. This operation is then repeated at the opposite side of the holder to completely remove the reach 34*h* from the gripping means. By a similar manipulation of the reach 34*h* and holder 120 said reach may be inserted into the gripping means 61*h*. The reach 34*h* may also be inserted into the hook 61*h* by first placing the reach in a notch 124*a*, Fig. 2, and then pushing it downwardly past the keepers 67*h*.

In the holder 125 shown in Figs. 4, 5 and 6 the guard fingers or keepers 71*i*, which cooperate with the roller 58*i* to prevent accidental detachment of said holder from the reach 35*i*, are formed on a separate piece 125 of material having lips 127 to embrace and firmly grip the side edges of the body part 56*i*.

The hook 63*i* of the securing means 61*i*, at the lower end of the holder 125, is also bent up from the lower end of the tapered portion 124*i* of the body part 56*i*, but the guard members or keepers 67*i*, which prevent accidental detachment of the reach 34*i* from the holder 125 and also cooperate with the curved portion of hook 63*i* to form the bight 66*i* in the reach 34*i*, are bent up from the tapered portion 124*i* thus providing a strong structural support for the guard members 67*i*. The guard members 67*i* are diagonally disposed with reference to the reach 34*i*, Fig. 6, and form with the upper free end of the hook 63, passage ways 122*i* through which the reach 34*i* may be moved vertically while inserting said reach into or removing it from the hook 63*i*. The keepers 67*i* are bent up from opposite sides of the downwardly pointing tapered portion 124*j* of the body part 56*j* which is similar to the portion 124 of the holder 120 of Fig. 1.

The holder 130 shown in Figs. 7 to 9 inclusive is similar to the one shown in Fig. 4, the securing means 61*j*, being identical with that of holder 125, and the various corresponding parts are indicated by the same reference characters with the substitution of the letter *j* for the letter *i*. The roller 58*j*, at the upper end of the holder 130, rotates on a spindle 57*j*, which is supported at its rear end by the body 56*j*, its forward end being supported by a portion or tongue 131 bent from the upper end of said body part to extend over the roller 58*j*, and then downwardly in front of the roller 58*j* to receive the forward end of the shaft 57*j*.

The extension 131 is provided at its lower end with two keepers or fingers 71*j* which project rearwardly and under the reach 35*j*, as seen in Fig. 8. The fingers 71*g* present stop faces which are arranged at right angles to the body part and they cooperate with a narrow portion 121*x* of said body part and with the tongue 131 to prevent accidental detachment of the holder from the reach 35*j*. The body part 56*j* has cut-outs 132 one at each side thereof to form the narrow portion 132*x* which cooperates with the rearwardly extending portions of fingers 71*j* to provide passage ways 59*j* which together form a bent slot, see Fig. 9 also, through which the reach 35*j* may be passed while attaching the holder 130 to or detaching it from the reach 35*j*. This attaching of the holder to or detaching it from the upper reach is done in successive stages by placing the holder successively in two positions diagonally of the reach which is effected by moving the holder about its vertical axis first to one side and then to the other to align the ends of the bent slot successively with the upper reach so that the reach may be passed first through one end of the slot and then through the other end. The narrow portion 132*x* of the body part 56*j* may be reenforced by a rib 122*j* pressed rearwardly therefrom to prevent bending of said narrow portion 132*x*.

The holder 135, shown in Figs. 11 to 13 inclusive, has features similar to those of other holders above described and especially those of the holder 125, Fig. 4. The body 56*k* of the holder is provided with intermediate means or body members 136, at its sides, which are bent up at the side edges of the body part 56*k* and serve as reenforcing members therefor so that the holder may be made of comparatively thin sheet metal. Guards or keepers 71*k*, are formed by the upper ends of the body or reenforcing members 136. These keepers 71*k* present stop faces which are located in a plane extending at right angles to the body part 56*k* and cooperate with an enlarged flange 60*k* on the front of the roller 58*k*, to prevent accidental detachment of the holder from the reach 35*k* on which the roller 58*k* runs. Guards 71*k* form with flange 60*k* slots 59*k* through which the reach 35*k* may be passed, to or from the roller 58*k*, by bending said reach or by manipulating the holder in a manner similar to that described in connection with the holder 120, Fig. 1. The roller 58*k* is supported on a spindle 57*k*, secured to a narrow extension 121*k* of the body part 56*k*, which is reenforced by a rib 122*k* to strengthen it. Guards or keepers 67*k* form the lower extremities of the reenforcing members 136 and cooperate with the hook 63*k* to form the bight in the associated reach 34*k*.

The holder 145, illustrated in Figs. 14 and 15, is in some respect like the holder 135 of Fig. 11, and in other respects like the holder 130 shown in Figs. 9 and 10. It may be used for the same purpose as those previously described. Its roller 58*m* runs on a spindle 57*m* supported by the body part 56*m* and an extension or tongue 131*m* thereof. The extension or tongue 131*m* in the present holder cooperates, at its lower end, with the guards 71*m* formed at the upper end of the reenforcing members 136*m*, which are similar to the members 136 of holder 135 and also include horizontal stopping faces, to prevent accidental detachment of the holder from the reach 35*m*. The lower end of the extension 131*m* forms with said guards 71*m*, slots 59*m* which together form a bent slot through which the reach may be passed, by bending it or manipulating it in a manner similar to that described in connection with Fig. 1. The securing means 61*m* for attaching the holder 145 to the lower reach of the line is similar to that shown in Figs. 4 and 11, the various parts of the securing means having the same reference characters applied thereto except that in some instances the letter *m* has been substituted for the letters *h* and *k* and in one instance the letter *m* has been added to the numeral 136.

It will be observed that the holder 145 has a downwardly pointed portion 124*m* of the body part, similar to those portions 124 and 124*i* shown in Figs. 1 and 4 respectively, from the lower narrow end of which the hook 63*m* extends, and that

the reenforcing members **136**, the lower ends **67***m* of which serve as guards or keepers, are bent.

The holder **150**, shown in Figs. 16 and 17 is also provided with reenforcing members **136***n*, the lower ends **67***n* of which cooperate with the hook **63***n* to form the securing means **61***n*, as in Figs. 11 and 14. The upper ends **71***n* of the reenforcing member **136***n* also have horizontal faces which cooperate with a downwardly projecting extension or tongue **131***n* to prevent accidental detachment of the holder from the reach **35***n*. In the present form of the invention the spindle **57***n*, upon which the roller **58***n* rotates, is of extraordinary length and is floatingly supported by the body part **56***n* and the extension **131***n* for a purpose stated hereinafter.

To attach the holder **150** to the reach **35***n* the bent off lip **151** is placed over the reach **35***n*, as in Fig. 17, and the holder is then pulled downwardly causing the tongue **131***n* to spring outwardly to the position shown in broken lines while the reach **35***n* passes by the guard members or keepers **71***n* at the upper edges of the reenforcing members **136***n*. It will be seen by an inspection of Fig. 17 that the lower end of the tongue **131***n* extends downwardly and rearwardly towards the members **71***n* and consequently if for any reason the reach **35***n* works downwardly it is guided by said tongue **131** onto the guard members **71***n* and thus accidental detachment of the reach from said holder is prevented.

To detach the reach **35***n* from said holder **150** the latter may be pressed rightwardly in Fig. 17 while the reach is near the upper edges of the members **136***n*. Thus the tongue **131** engages the reach **35***n* and is sprung thereby to the position indicated in dot-and-dash lines. The holder may then be moved upwardly until the members **71***n* pass the reach **35***n*. The securing means **61***n* on the lower end of the holder **150** is constructed and used like that of holder **135**, Fig. 11; the various parts thereof having the same reference characters with the addition of letter *n* instead of *k*.

An advantage of the extraordinary length of spindle **57***n* is that it permits not only the extension **131***n* and body part **56***n* to spring as in Fig. 17, but it also permits a slight springing of the horizontal portion **152** of the extension **131***n* thus permitting greater freedom of movement of the vertical portion of the extension **131***n* away from the body part **56***n*. This resilient yielding of the portions of the extension and body part located above the spindle cannot take place in a structure similar to that shown in Fig. 15 in which the vertical portion of the extension **131***m* and the body part **56***m* are definitely fixed by the length of the spindle **57***n*.

It will be understood that all of the holders **125**, **130**, **135** and **145** are held vertical to the lower reach of the clothes line in a manner and for the purpose brought out in connection with the holder **120**.

All corners with which the reaches come in contact, in all forms of the invention, are broken or in other words rounded to prevent chafing of said reaches.

While certain preferred embodiments of the invention have been described, it will be understood that certain parts may be used with others and that changes in the form, arrangement, proportions, sizes and details thereof may be made without departing from the scope of the invention as defined in the appended claims.

I claim:

1. In a holder for a pulley clothes line having a clothes carrying reach and an idle reach, the combination of a single body part having two substantially parallel side edges, a single roller mounted on the upper end of said body part and located at the front of said body part to run on the idle reach, two reenforcing members, one on each side edge of said body part, said reenforcing members extending forwardly from the side edges of the body part, the upper ends of said reenforcing members assisting to prevent accidental detachment of the holder from the idle reach, and hook-means located at the lower end and the front end of said body part into which a clothes carrying reach may be inserted, the lower ends of said reenforcing members cooperating with said hook-means to form a bight in the clothes carrying reach, the lower ends of said members being also effective to prevent accidental detachment of the clothes carrying reach from said hook-means.

2. In a holder for a pulley clothes line consisting of two reaches, the combination of a single body part having parallel sides, means at one end of said body part and within the confines of said body part widthwise thereof for securing said holder to one reach of the clothes line, said means including a hook extending from said body part to the front thereof to support the line reach, and two diagonally disposed members on said body part cooperating with said hook to maintain said holder in a vertical position with respect to said reach and also prevent accidental detachment thereof from said reach, said diagonally disposed members forming with said body part a bent slot through which said reach may be passed downwardly at one side of the body part into said hook, a roller on said holder to facilitate freedom of transit of said holder on another reach of said line, and means to prevent accidental detachment of the holder from the last mentioned reach while the holder is in a vertical position, the last mentioned means forming with said roller a bent slot having two portions through which the second mentioned reach may be passed in two stages to attach the holder thereto or detach it therefrom upon moving the holder from its vertical position successively to two other positions diagonal to the second mentioned reach, thus properly locate the bent portions of the slot with respect to the second mentioned reach.

3. In a holder for a pulley clothes line having an upper reach and a lower reach, the combination of a single vertically disposed body part, a single member on the lower end of said body part to engage the lower reach of the clothes line to support the latter, lower portions on said holder having means to cooperate with said member to provide gripping means to engage said lower reach to cause said holder to travel with said lower reach and to maintain said holder vertical to and in a plane parallel to the clothes line, a single roller on the upper end of said body part to ride on the upper reach of the clothes line, upper portions on said holder located beneath said roller to prevent accidental detachment of the upper reach from the upper part of said holder while the latter is under the control of the gripping means, said upper portions being located with reference to the roller to form a bent slot so that the upper reach may be attached to or detached from the upper end of the holder in two successive stages upon placing the holder successively in two positions diagonal of the clothes line.

4. In a holder for a pulley clothes line having a plurality of travelling reaches, the combination of a body part, means to grip one of the reaches

to cause the holder to travel therewith, and transit means on said holder to travel on another one of said reaches, the gripping means comprising a single member on the body part to engage one side of the associated reach, and two members on the body part to engage the opposite side of said associated reach to form with the first mentioned member a bight in the reach, the three members extending to the same side of the body part and being disposed with reference to the body part to form a gap at one side of the holder through which said associated reach may be passed to or from the gripping means.

5. In a holder for a pulley clothes line having a plurality of travelling reaches, the combination of a body part, means to grip one of the reaches to cause the holder to travel therewith, and transit means on said holder to travel on another one of said reaches, the gripping means comprising a hook bent forward from the lower part of the body part, and two keepers one at each side edge of the body part, said keepers being bent forward from the body part and extending over the reach located in the hook, said keepers having lower ends which are located in a plane above the lower part of the hook a distance slightly less than the diameter of the reach to produce with the hook a bight in said reach.

6. In a holder for a pulley clothes line having two reaches, namely a lower reach and an upper reach to travel simultaneously in opposite directions, the combination of a single body part, a single roller thereon to travel on the upper reach, a single hook to engage under the lower reach, said roller being located vertically above said hook, keepers on said holder one at each side of said hook to extend over the top of the lower reach and cooperate with the hook to grip said lower reach, two keepers on said holder near the upper end of the body part, one at each side edge thereof, and means cooperating with the upper keepers to prevent accidental detachment of the upper reach from the roller, the hook and its associated keepers cooperating with the lower reach to maintain said holder in a vertical position and thus prevent it from voluntarily occupying a position in which either one of the upper keepers binds on said upper reach.

7. In a holder for a pulley clothes line having two reaches, namely a lower reach and an upper reach to travel simultaneously in opposite directions, the combination of a body part, a single roller on said body part near its upper end thereon to travel on the upper reach, said body part having at its lower end a downwardly pointing tapered portion, an upwardly turned hook extending from the lower, narrow end of said tapered portion, said hook to support the lower reach, and keepers on said holder one located at each side of said hook and extending over said lower reach to prevent accidental dislodgement of the lower reach from said hook, said keepers cooperating with said hook to grip the lower reach to cause the holder to travel therewith.

8. In a holder for a pulley clothes line having two reaches, namely a lower reach and an upper reach to travel simultaneously in opposite directions, the combination of a single body part, a single roller on said body part to travel on the upper reach, an upturned hook extending from the lower end of said body part to support the lower reach, and two keepers on said holder, said keepers diverging outwardly with respect to each other from their supported ends to extend over the lower reach when in said hook, said keepers assisting in forming a bent slot at one side of the holder through which the lower reach may be inserted into said hook directly from the top of said hook, said keepers cooperating with said hook to grip the lower reach to cause the holder to travel therewith.

9. A holder for a pulley clothes line having two reaches, namely a lower reach and an upper reach to travel simultaneously in opposite directions, said holder being composed of a single vertically disposed body part, a single roller on the upper end of said body part to travel on the upper reach, an upturned hook extending from the lower middle portion of said body part to support the lower reach, and two keepers on said body part one at each side edge thereof and located at opposite sides of said hook, said keepers extending over the lower reach when the latter is in said hook and forming with said hook a bent slot through which the lower reach may be passed downwardly into said hook, said keepers having lower edges which are located at a common plane in a level above the bottom of said hook a distance slightly less than the diameter of the reach to produce a bight in the lower reach, said keepers being also effective to prevent accidental removal of the reach from said hook.

10. In a holder for a pulley clothes line having two reaches to travel in opposite directions, namely an upper reach and a lower reach, the combination of a body part, means on the lower end of said body part to support the lower reach, a roller supported on the upper end of said body part to run on the upper reach, a tongue extending from the upper end of the body part over said roller and then downwardly in front of said roller to a level below the lower end of the roller, and two rigid members integral with said holder one at each side of said tongue and free there from but cooperating with the lower end of said tongue to permit insertion of the upper reach to said roller and to prevent accidental detachment of said holder from said upper reach.

11. In a holder for a pulley clothes line having two reaches to travel in opposite directions, namely an upper reach and a lower reach, the combination of a body part, means on the lower end of said body part to support the lower reach, a roller supported on the upper end of said body part to run on the upper reach, a tongue extending from the upper end of the body part over said roller and then downwardly in front of said roller, side members one at each side of the body part, the upper ends of said side members forming with the lower end of said tongue a bent slot through which the upper reach may be passed to or from the roller, the lower ends of the side members cooperating with the supporting means to grip the lower reach.

12. In a holder for a pulley clothes line having two reaches to travel in opposite directions, namely an upper reach and a lower reach, the combination of a body part, means on the lower end of said body part to support the lower reach, a roller to run on the upper reach, a tongue extending from said body part over said roller and downwardly at the front thereof, a pin to support said roller, said pin being supported at one end by the body part and at its other end by said tongue, two members one on each side of the body part, said members cooperating with said tongue and said body part to prevent accidental detachment of the holder from the upper reach, said pin being slightly longer than the space between the tongue and the body part to permit

flexing of said tongue and the upper portion of the body part when the lower part of said tongue is moved outwardly during an insertion of the upper reach to said roller.

13. In a holder for a pulley clothes line having an upper reach and a lower reach, said reaches to travel simultaneously in opposite directions, the combination of a single body part, a single upturned hook bent from the lower end of said body part, two members bent from said body part at opposite sides of said hook to form a bent slot with said hook, said slot being located at the same side of the holder to which the hook extends so that the lower reach may readily be inserted through said slot into said hook, said members being also effective to form with said hook, a bight in said lower reach, to cause said holder to travel with it, and means on said holder to engage the upper reach of the line.

14. A holder for a pulley clothes line having an upper reach and a lower reach, said reaches to travel simultaneously in opposite directions, said holder consisting of a single body part, means on the lower end of said body part to grip the lower reach to cause the holder to travel with it and prevent accidental detachment of said holder from said lower reach, a roller on the upper end of said holder to run on said upper reach, two guards on said body part to assist in preventing accidental detachment of the holder from the upper reach, said guards being arranged one to each side of a vertical plane extending longitudinally of the holder through the axis of said roller, and means on said holder located between said guards to cooperate therewith in preventing accidental detachment of the holder from said upper reach.

15. In a holder for a pulley clothes line having two reaches, the combination of a single body part, a single roller on the upper end of said body part to run on one of said reaches, hook-means at the lower end of said body part to engage the other reach, intermediate substantially parallel members on the opposite sides of the body part, said members being located between the roller and the hook-means, the ends of said members nearest the roller assisting to prevent accidental detachment of the holder from the reach engaged by the roller, the ends of said members nearest said hook-means being arranged to cooperate therewith to prevent accidental detachment of the holder from the second mentioned reach.

16. In a spacer for a pulley clothes line, having two reaches, the combination of a single narrow body part, means within the confines of said body part and at one end thereof to engage one of said reaches, a roller on the other end of and in front of said body part to engage the other reach, a tongue extending from said body part to the front of said roller, a pin to support said roller, said pin being supported by said body part and said tongue, and rigid means on said holder, said rigid means having a stopping face located in a plane extending substantially at right angles to the body part and cooperating with the free end of said tongue and with said body part to prevent accidental detachment of the spacer from the last mentioned reach.

17. In a spacer for a pulley clothes line having two reaches, the combination of a single narrow body part, means within the confines of said body part and at one end thereof to engage one of said reaches, a roller on the other end of and in front of said body part to engage the other reach, a tongue extending from said body part to the front of said roller, a pin to support said roller, said pin being supported by said body part and said tongue, and rigid means on said holder, said rigid means having a stopping face located in a plane extending substantially at right angles to the body part and cooperating with the free end of said tongue and with said body part to prevent accidental detachment of the spacer from the last mentioned reach, said pin being longer than the space between the tongue and the body part to permit flexing of said tongue and a portion of the body part when the free end of said tongue is moved outwardly to permit passage of the reach from the exterior of said spacer to said roller.

18. In a spacer for a pulley clothes line having two reaches, namely a clothes carrying reach and an idle reach, the combination of a single narrow body part, means within the confines of said body part and at the lower end thereof to grip the clothes carrying reach, a roller on the other end of and in front of said body part to engage the idle reach, a tongue extending from said body part to the front of said roller, said tongue having a free end extending below the lower edge of said roller, a pin to support said roller, said pin being supported by said body part and said tongue, and rigid means on said holder, said rigid means having a stopping face located in a plane extending substantially at right angles to the body part and beneath the free end of said tongue to cooperate with the latter and with said body part to prevent accidental detachment of the spacer from the idle reach.

19. In a spacer for a pulley clothes line having two reaches, namely a clothes carrying reach and an idle reach, the combination of a single narrow body part, means within the confines of said body part and at the lower end thereof to grip the clothes carrying reach, a roller on the other end of and in front of said body part to engage the idle reach, a tongue extending from said body part to the front of said roller, said tongue having a free end extending below the lower edge of said roller, a pin to support said roller, said pin being supported by said body part and said tongue, and rigid means on said holder, said rigid means having a stopping face located in a plane extending substantially at right angles to the body part and beneath the free end of said tongue to cooperate with the latter and with said body part to prevent accidental detachment of the spacer from the idle reach, said pin being longer than the space between the tongue and the body part to permit flexing of said tongue and a portion of the body part when the free end of said tongue is moved outwardly to permit passage of the idle reach from the exterior of said spacer to said roller.

20. In a spacer for a pulley clothes line having two reaches, the combination of a single narrow body part, means within the confines of said body part and at one end thereof to engage one of said reaches, a roller on the other end of and in front of said body part to engage the other reach, a tongue extending from said body part to the front of said roller, a pin to support said roller, said pin being supported by said body part and said tongue, rigid means on said holder, said rigid means having a stopping face located in a plane extending substantially at right angles to the body part and cooperating with the free end of said tongue and with said body part to prevent accidental detachment of the spacer from the last mentioned reach, said pin being longer than the space between the tongue and the body part to permit flexing of said tongue and a portion of

the body part when the free end of said tongue is moved outwardly to permit passage of the reach from the exterior of said spacer to said roller, the reach engaging means being also rigid and including a hook member extending from the body part around under the associated reach, and two members, one at each side of the body part, each of the latter members having a substantially horizontal face to engage the upper part of the clothes carrying reach so as to form with said hook a bight in said clothes carrying reach to thus cause the spacer to travel therewith.

21. In a spacer for a pulley clothes line having an upper reach and a lower reach, said reaches being arranged to travel in opposite directions, the combination of two elements namely a single narrow body part, and a roller thereon to ride on the upper reach, one of said elements having a portion extending lengthwise of said spacer, a single member in the middle of the lower end of said single body part to support the lower reach, two members one at each side of said single member and within the confines of said body part, said two members having each a horizontal face engaging the upper part of the lower reach and cooperating with said single member to grip said lower reach to maintain the spacer vertical to the line, and means on said spacer including a horizontal stopping face to cooperate with the lengthwise extending portion to prevent accidental detachment of the spacer from the upper reach while the spacer is held vertical to said line.

22. In a holder for a pulley clothes line having

two reaches to travel in opposite directions, the combination of a body part, means on the lower end of the body part to grip the lower reach to cause the holder to travel therewith, a roller supported on the upper end of the body part to run on the upper reach, a tongue-like portion extending over the top of said roller from the body part and downwardly at the front of said roller, said body part having a narrow portion located lower than the roller to form two cut-outs one in each side edge of the body part, and two members on the lower edge of the tongue-like portion, said members extending inwardly from said tongue-like portion towards said cut-outs and forming a bent slot with said narrow portion through which slot the upper reach may be passed to and from said roller.

JOHN WALDHEIM.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
325,470	Young	Sept. 1, 1885
466,458	Donnan	Jan. 5, 1892
468,098	Hayward	Feb. 2, 1892
539,577	Elblein	May 21, 1895
695,397	Johnson	Mar. 11, 1902
705,101	Lemaire	July 22, 1902
1,292,339	Lopan	Jan. 21, 1919
1,459,115	Pedersen	June 19, 1923
1,605,511	Chilton	Nov. 2, 1926