

March 17, 1942.

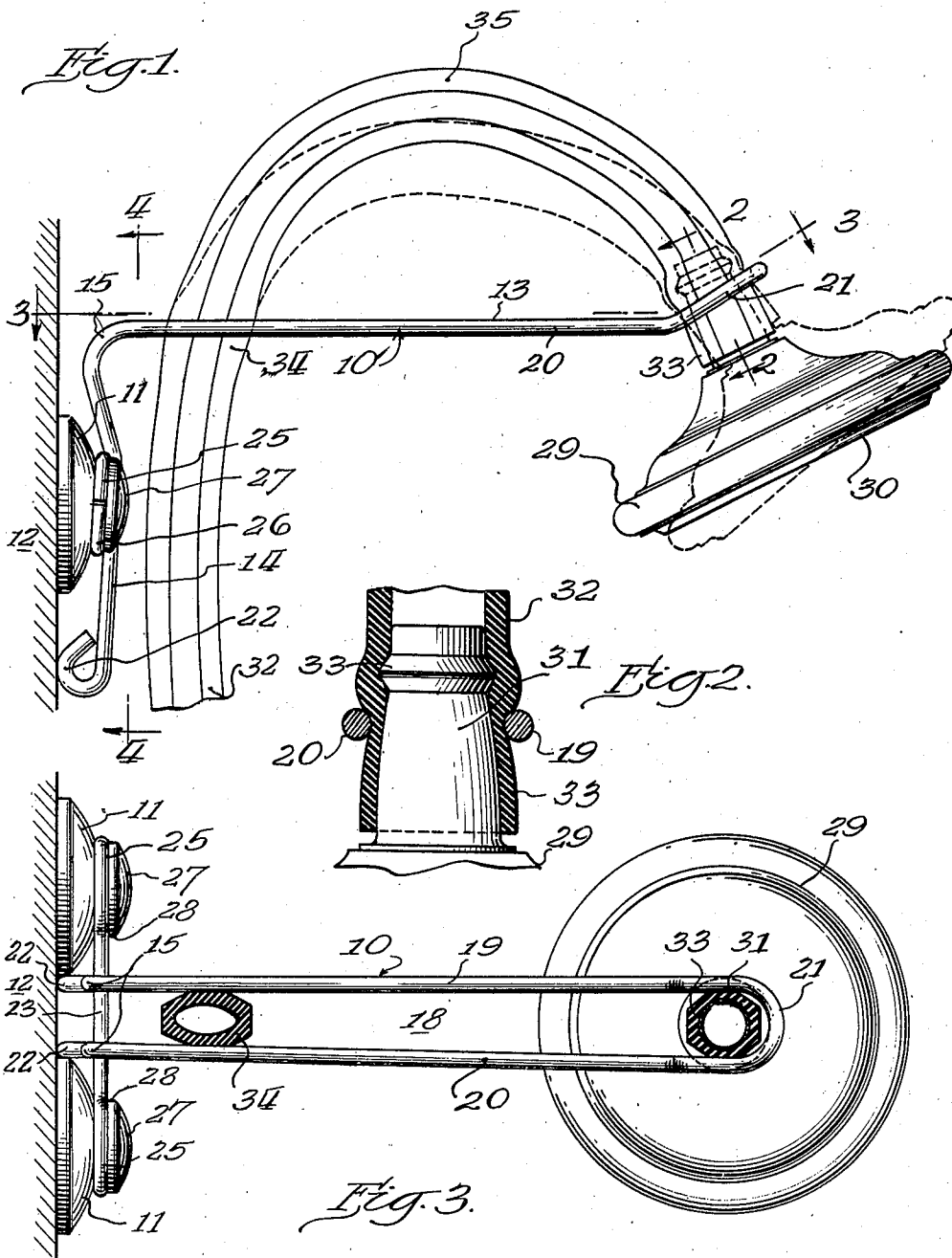
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2,276,779

SUPPORTING BRACKET FOR SPRAY DEVICES

Filed Aug. 14, 1939

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 4

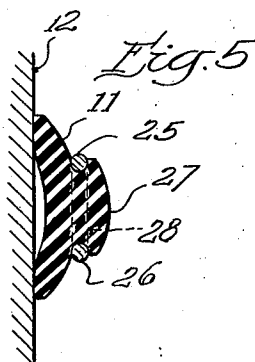
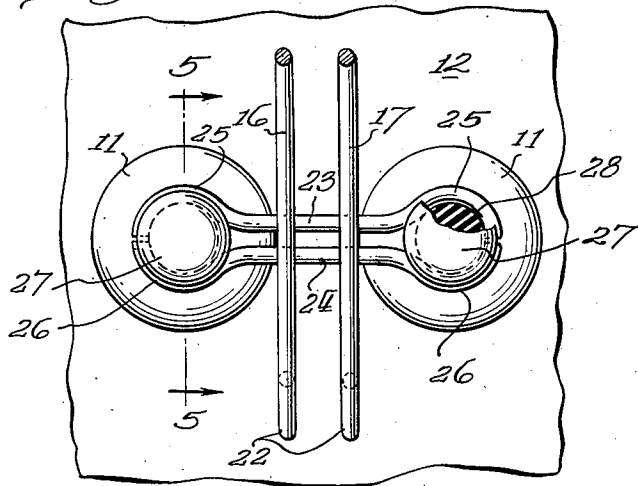


Fig. 7

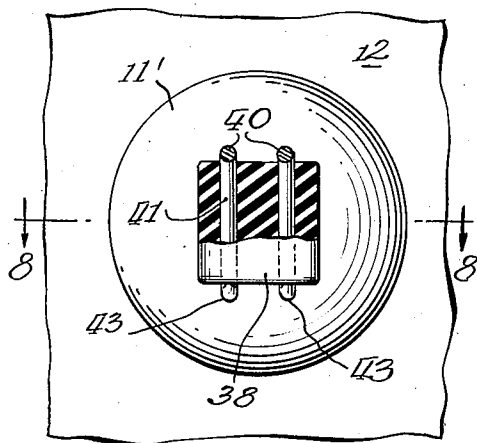


Fig. 8

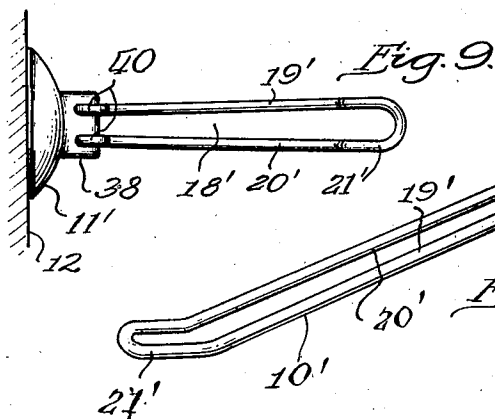
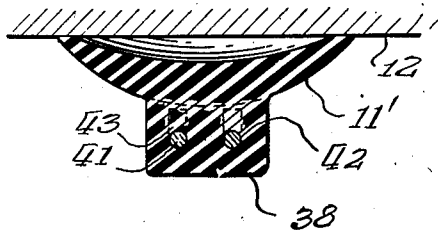
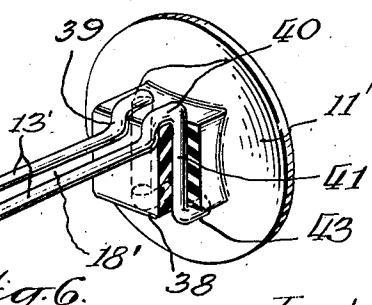


Fig. 6



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UNITED STATES PATENT OFFICE

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SUPPORTING BRACKET FOR SPRAY DEVICES

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3 Claims. (Cl. 248—75)

This invention relates to bath sprays and more particularly to a bracket whereby a bath spray may be held to a relatively stationary support such as a wall or the like for the purpose of being used as a shower fixture.

An object of this invention is to provide an improved device of the character described which will enable a bath spray to be detachably associated therewith for the purpose of acting as a shower fixture.

A further object of this invention is to provide a device of the character described which will comprise a bracket adapted to be attached by means of suction devices or the like to a relatively stationary support, said bracket being adapted to have a bath spray associated therewith, said bracket having novel and improved means whereby said bath spray may be adjusted to a plurality of positions.

A further object of the present invention is to provide a device of the character described which will comprise a bracket having means whereby same may be attached to a relatively stationary support such as a wall or the like, said bracket being adapted for having a bath spray associated therewith, said bath spray being held upon said bracket so that the hose portion thereof adjacent to the spray head may assume a gooseneck formation, and simple and improved means for varying the directed angle of said spray head.

Still a further object of the present invention is to provide a device of the character described comprising a bracket adapted to be attached to a relatively stationary support such as a wall or the like and having a bath spray associated therewith, means associated with said bracket for limiting motion thereof caused by the reaction to the force of water passing through said bath spray.

Still a further object of the present invention is to provide a device of the character described comprising a bracket adapted to be fixed to a relatively stationary support such as a wall or the like for supporting thereon a bath spray with the portion of the hose of said spray adjacent the spray head being held in the formation of a gooseneck, means formed on said bracket for pivotally mounting said spray head and for holding the same in any position to which it may be moved.

Still a further object of the present invention is to provide a device of the character described comprising a bracket adapted to be attached by means of suction devices to a relatively stationary support such as a wall or the like for supporting articles thereon, said bracket having a portion

thereof engaging against said support for the purpose of bracking the same and to thereby relieve undue strain on said suction devices.

Still a further object of the present invention is to provide a device of the character described comprising a bracket adapted to be fixed to a relatively stationary support such as a wall or the like and having a bath spray supported thereon, said bracket including an arm extending at an angle to said support, said arm being in the form of a looped member for receiving said bath spray therein, with the spray head pivotally held in the forward portion of said member, and a portion of the hose adjacent said spray head being yieldably held by the rear portion of said member.

A further object of the present invention is to provide a device of the character described which will be simple in construction and operation and which will be economical to manufacture and which will at the same time efficiently carry out the purposes for which same is designed.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists in certain novel features of construction, arrangement and combination of parts hereinafter fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportion, size and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

For the purpose of facilitating an understanding of my invention, I have illustrated in the accompanying drawings a preferred embodiment thereof, from an inspection of which, when considered in connection with the following description, my invention, its mode of construction, assembly and operation, and many of its advantages should be readily understood and appreciated.

Referring to the drawings in which the same characters of reference are employed to indicate corresponding or similar parts throughout the several figures of the drawings:

Fig. 1 is a side elevational view of an embodiment of my improved bracket and showing a bath spray associated therewith.

Fig. 2 is a longitudinal sectional view of a segment of the hose of the bath spray and a portion of the arm of my improved bracket taken along the line 2—2 of Fig. 1 and in the direction indicated.

Fig. 3 is a plan view of my improved bracket having a bath spray associated therewith taken generally along the line 3—3 of Fig. 1 and in the direction indicated, showing portions of the hose of said bath spray in section.

Fig. 4 is a view of the attaching means of my improved bracket taken generally along the line 4—4 of Fig. 1 and in the direction indicated, with portions of the bracket in section.

Fig. 5 is a sectional view through one of the suction devices of my improved bracket taken along the line 5—5 of Fig. 4 and in the direction indicated.

Fig. 6 is a perspective view of a modification of my improved bracket.

Fig. 7 is a view of the attaching means of the embodiment of my invention illustrated in Fig. 6 taken therefrom in a manner similar to that in which Fig. 4 is taken from Fig. 1.

Fig. 8 is a sectional view of the suction means of my modified embodiment taken along the line 8—8 of Fig. 7 and in the direction indicated.

Fig. 9 is a plan view of the modified embodiment of my invention.

Referring to the drawings more particularly by characters of reference, the numeral 10 designates generally my improved bracket to which are fixed suction means, comprising in the present instance concavo-convex rubber cups 11 adapted to adhere to a relatively stationary support, such as a wall 12 or the like. The bracket illustrated in Fig. 1 comprises an arm 13 which extends substantially perpendicular to the wall 12 and a downwardly extending arm 14. The extension 14 is arranged substantially at right angles to the arm 13 and is disposed generally parallel to the stationary support 12.

The arms of the bracket may be formed of any suitable material, however, in the embodiment illustrated I provide for same being made of wire so that ease in fabrication is assured. Thus the arms 13 and 14 may be formed from a single piece of wire bent to form the closed loop at the free end of the arm 13, and the free ends of the wire being bent substantially at right angles to the body portion of the arm 13, as shown at 15 to produce the leg portions 16 and 17. The space formed between the sides 19 and 20 is designated as 18, and is somewhat wider at the outermost portion of the arm 13 than at the point close to the bend 15 for a purpose to be described below. The tip of the arm 13 is bent up slightly as shown at 21.

The legs 16 and 17 of the downwardly extending arm 14 are provided at their lowermost ends with curled up portions 22 adapted to bear against the wall 12 for the purpose of bracing the bracket 10 when in operative position on the wall.

Intermediate the ends of the arm 14 a pair of cross braces 23 and 24 are secured thereto, as by welding or the like. The ends of the cross braces are curved, the upper brace 23 having its ends 25 curved so that the radius is downward, and the lower brace 24 having its ends 26 curved so that the radius is upwards. Thus the combination of the two braces 23 and 24 provide substantially circular wire loops at the ends of the brace members. These wire loops are adapted to accommodate the knobs 27 of the rubber suction cups 11 by encompassing the grooves 28 formed on said rubber suction cups 11.

By means of the above arrangement, the bracket is held to the wall 12 by the suction cre-

ated by said suction cups 11 in a well-known manner.

It should be appreciated that in order for the suction devices 11 to operate at their best efficiency and adhere as closely as possible, it is essential that they be moved or disturbed as little as possible, thus permitting them to retain their vacuum. As weight is applied to the bracket 10 there is a pull exerted on the upper ends of the cups 11 by reason of the arm 13 being urged downwardly. To prevent the exertion of any uneven pull on said suction cups due to the weight of the object disposed on the bracket I have provided the portions 22 which engage against the wall 12 when the bracket is in attached position thereby acting as a brace for said bracket, thus making it possible to attain a more secure support with a bracket of this type.

The present invention has been described with respect to its use in general, but, as illustrated, I particularly have devised this bracket for the purpose of supporting a bath spray in a novel and utilitarian manner so that same may be used as an adjustable shower bath fixture.

The bath spray used with my improved bracket is a conventional one, said bracket being designed to accommodate no special type of bath spray. The particular one illustrated comprises a spray head 29 having a perforated face 30 for producing a spray of water. The head 29 is provided with a neck 31 adapted to fit into and be held by a flexible hose 32, the other end of which is adapted to be fastened to the faucet of a bath tub or a lavatory or the like source of water. The neck 31 of the spray head 29 is provided with an annular flange 33 or the like to aid in maintaining the end of the flexible hose 32 thereupon.

In associating the bath spray with the bracket 10 the neck portion 31 of the spray head 29 having the end of the flexible hose 32 secured thereto in the usual manner, is inserted in the closed end of the looped arm 13 thus bringing it within the upturn portion 21 within which portion it is held for pivotal movement only. An intermediate portion 34 of the hose 32 is inserted, as shown, in the narrower portion of the space 18, and is yieldably held therein. With the two portions of the hose 32 held as described, that portion of the hose immediately adjacent the spray head assumes a gooseneck formation 35. By this means water from the spray head may be directed downward so that what has been accomplished by means of the bracket 10 is to convert the bath spray into a shower bath fixture.

It will be seen that by reason of the arrangement of the hose the spray head may be adjusted to any angle desired as shown by broken lines of Figure 1. This is done by varying the radius of the gooseneck formation 35 which can be accomplished by moving the hose portion 34 up or down in the space 18. As the hose is moved upwards, as viewed in Figure 1, the spray head 29 will pivot about the portion 21 in a clockwise direction and as the hose portion 34 is moved downwards the spray head 29 pivots about the portion 21 in a counter-clockwise direction.

The hose 32 is considerably squeezed at 34 by the arms 19 and 20 in order that same may be yieldably held in any position to which it may be moved. However, the degree of constriction is insufficient to hinder flow of water therethrough.

It will be noted that the bent portions 15 of the bracket 10 extend considerably further to

the rear or to the left as viewed in Figure 1 of the arm portions 16 and 17. Thus knees 15 are formed which are comparatively close to the wall 12. The purpose of these knees is to prevent undue upward movement of the arm 13 from causing misdirection of the spray head 29 or from placing strain upon the suction cups 11. Movement of the arm 13 will be caused by reaction of the hose 32 and spray head 29 to the force of the passage of water through the gooseneck 35 tending to straighten same out.

A modification of my present invention is disclosed in Figures 6 to 9 inclusive wherein the bracket 10' comprises the looped arm 13' and is provided with the single suction cup 11'. The arm 13' consists of a closed wire loop 18' tapering from its widest point at the turned up portion 21' to its narrowest point at the extreme rear of the arm as best shown in Figure 9.

The suction cup 11' is provided with a projection 38 on the rear thereof to which the arm 13' is attached. Any method of attachment may be used. However, the means of attachment shown in the drawings comprises a series of bends at the end of each arm 19' and 20' which provide for a portion 39 resting against the projection 38, an extension portion 40 over the top of the projection, and a downwardly bent portion 41 adapted to extend into openings 42 provided in the projection 38. After insertion of the arm portions 41 into the openings 42 the free ends of the arms 19' and 20' may be bent over as shown at 43 to secure the looped arm 13' upon the suction cup 11'. This expedient, however, is not absolutely necessary.

It will be seen that in this modification simple means are provided whereby a bath spray may be associated with the bracket 10' to be held thereby in an adjustable manner. Thus the gooseneck 35 referred to above is formed on said bracket 10' and the spray head may be pivotally held so that same is adjustable as described above.

It should be apparent that I have provided a bracket which is adapted to be used in combination with a bath spray or other spray devices for the purpose of converting same into an adjustable shower fixture. It will further be seen that my novel and improved bracket provides for a gooseneck formation to be assumed in the hose of a bath spray in an efficient and ingenious manner so that the purposes of this invention will be carried out.

It is believed that my invention, its mode of construction and assembly, and many of its advantages should be readily understood from the foregoing without further description, and it should also be manifest that while a preferred embodiment of the invention has been shown and described for illustrative purposes, the structural details are nevertheless capable of wide variation within the purview of my invention as defined in the appended claims.

What I claim and desire to secure by Letters Patent of the United States is:

1. A device of the character described comprising a bracket adapted to be attached to a relatively stationary support and having a horizontally disposed forwardly extending arm provided with means for supporting a shower spray in operative position, said arm having a substantially right angle extension thereof arranged substantially parallel to and spaced from said support except for one end thereof, the opposite end of said extension being provided with a fulcrum normally spaced from the support but adapted to engage said support to limit motion of said horizontally disposed arm in one direction about said suction cups, said extension having a cross member associated therewith and arranged intermediate the ends of said extension, and suction cups carried by said cross member whereby said bracket may be caused to adhere to said support.

2. A device of the character described comprising a bracket adapted to be attached to a relatively stationary support and having a horizontally disposed forwardly extending arm provided with means for supporting a shower spray in operative position, said arm having a substantially right angle extension thereof arranged substantially parallel to and spaced from said support except for one end thereof, the opposite end of said extension being provided with a fulcrum normally spaced from the support but adapted to engage said support to limit motion of said horizontally disposed arm in one direction about said suction cups, said extension having a cross member associated therewith and arranged intermediate the ends of said extension, and suction cups carried by said cross member whereby said bracket may be caused to adhere to said support, the lower end of said extension having a portion bent to engage against said support and thereby prevent downward movement of said bracket.

3. A shower spray bracket for application to a relatively stationary support, comprising a bracket having a pair of arms arranged substantially at right angles to each other, a cross arm attached to one of said arms intermediate the ends thereof and having a pair of rubber suction cups attached to the ends of said cross arm whereby said bracket may be caused to adhere to said wall, fulcrums provided at either end of said first arm for bearing against said support, said second arm having means whereby a shower spray head may be operatively associated therewith, said fulcrums serving to limit motion of said second arm in either direction about said suction cups and said cross arm.

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