Feb. 20, 1940. J. G. JACKSON 2,190,987

STRAINER BOWL BRACE

Filed Jan. 22, 1937

Fig. 1.

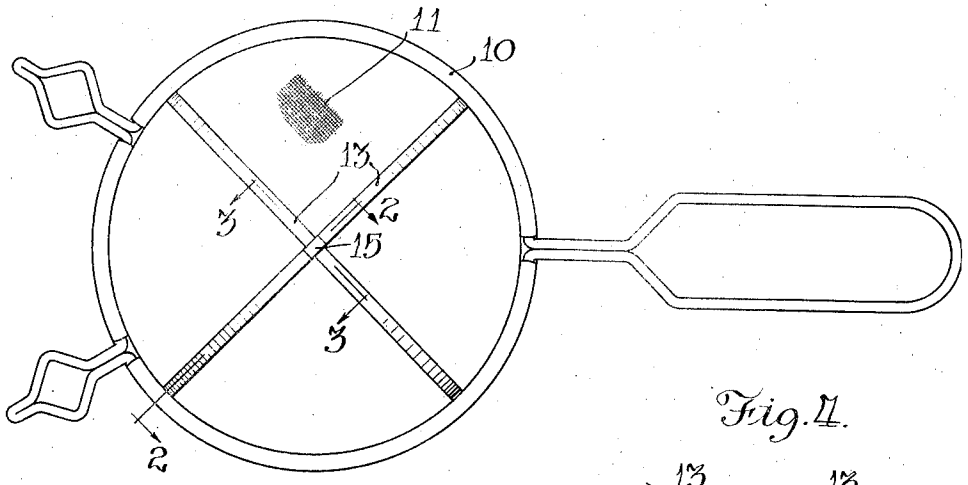


Fig. 4.

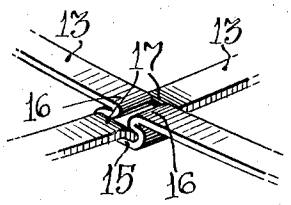


Fig. 2.

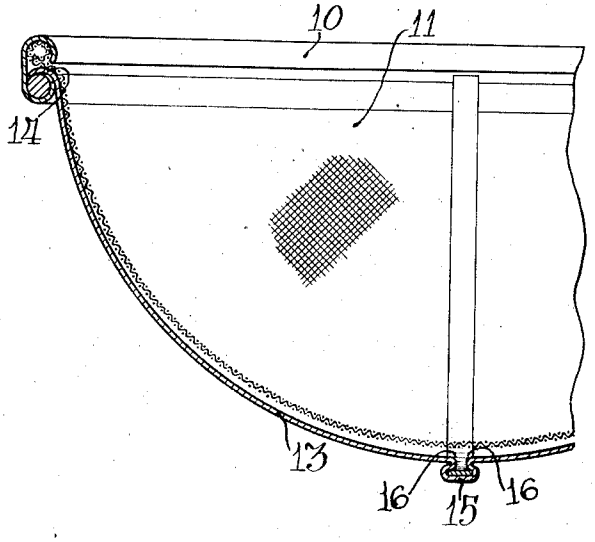
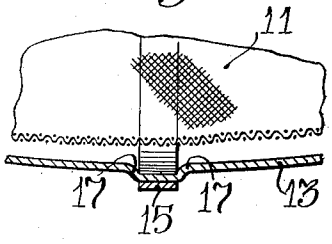


Fig. 3.



Inventor
Joseph G. Jackson.
By. Stanley Hoods
Atty.

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STRAINER BOWL BRACE

Joseph G. Jackson, Oak Park, Ill., assignor to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois

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3 Claims. (Cl. 210—155)

This invention relates to strainer bowl braces and has for its object to so form, mount and secure said braces that the several elements thereof will be incapable of relative movement and will completely brace and support each other.

Among its other objects the present invention attains a more rigid and substantial brace, greater protection for the strainer bowl, and a general maintenance of the shape and appearance of the entire structure.

With the above and other objects in view, as will be apparent, this invention consists in the construction, combination and arrangement of parts, all as hereinafter more fully described, claimed and illustrated in the accompanying drawing, wherein:

Fig. 1 is a bottom plan view of a strainer illustrating the present brace structure embodied therein,

Fig. 2 is a section through the brace, being taken along line 2—2 of Fig. 1,

Fig. 3 is a similar section taken at right angles to that of Fig. 2 along line 3—3 of Fig. 1, and

Fig. 4 is a perspective view of the interior of the brace structure disclosing the cooperation between the crossed elements or members thereof.

Heretofore, strainers, consisting of a wire cloth strainer bowl, secured at its edge portion to a strainer frame which is usually provided with a support, such as a handle, have had braces closely following the external contour of the bowl, extending from one point on the strainer frame to a diametrically opposed point thereon, said braces crossing each other at the approximate center of the bowl but not having any interconnection one with the other at the point of crossing. Consequently, the crossed brace member or elements fail to act as braces for each other, and any one of them may be bent, twisted or warped out of shape without materially affecting the others, frequently resulting in the denting or distortion of the strainer bowl. Furthermore, the crossed elements of these prior bowl braces can and do move relatively one to the other, thereby causing the extremities thereof to become loosened with respect to, and sometimes completely disengaged from, said frame.

The present invention is confined to the construction and cooperation of the brace elements or members and has in view a construction wherein each brace element or member braces and supports its companion or cooperating elements or members, thereby preventing the independent bending, twisting or distortion of any one brace member or element. Furthermore, the several elements or members of the braces are immovable relatively and hence, the extremities thereof, attached to the strainer frame, have no play or movement relative to said frame and no tendency to be loosened or disengaged therefrom as a result of such movement. Thus, by the use of the present invention, the entire strainer structure is improved and strengthened.

Reference being had more particularly to the drawing, 10 denotes a metallic strainer frame of any desirable shape and size to which is attached a wire cloth strainer bowl 11 here shown as hemispherical. The edge portion of the bowl 11 is fixedly attached to the strainer frame 10 in any suitable manner, such for instance, by a seam. The foregoing described strainer structure is given as an example of one type of construction and as it forms no part of the present invention and therefore, may be changed, altered, modified or completely departed from, without affecting in any manner the spirit and scope hereof.

Operating over and against the exterior surface of the bowl 11 are two or more brace elements or members 13, each of which is a relatively long, narrow, metallic strip bent or curved to follow closely the exterior contour of the bowl 11. Each of these brace elements or members 13 extend from a point one side of the frame 10 to a diametrically opposed point on the frame and cross each other at the approximate center of the bowl 11. The extremities of the brace elements or members 13 are permanently secured to the frame 10 at the points where they join it in any suitable manner, as for instance, by the rebent portions or hooks 14 at the extremities of the elements or members 13, folded or engaged in the seams.

At the point where the brace elements or members 13 cross, the usual relative positions thereof are reversed by the present arrangement, i. e. the brace element or member 13 which heretofore has lain or been situated adjacent or against the outer surface of the bowl 11 is herein somewhat removed therefrom while the member or element 13 heretofore crossing exteriorly of the first member or element herein lies or is situated adjacent or against the outer surface of the bowl. This is accomplished by folding what would heretofore have been the outer brace element or member 13 but which herein is actually the inner element or member lying against or adjacent the outer face of the bowl 11, upon itself to form a loop 15 having ends or clips 16, said loop and clips snugly and closely embracing the companion brace element or member 13 at the ap-

proximate center of its length. The clips 16 of the loop 15 are located between the exterior surface of the strainer bowl 11 and the inner surface of the complemental element or brace 13.

Upon each side of the loop 15 the unlooped element or member 13, which is here the outer element or member 13, is bent angularly, as at 17, to create a pair of outwardly extending spaced shoulders, said shoulders defining an indentation in which the inwardly folded clips 16 of the crossing strip are snugly seated for engaging the edges of the unlooped element.

From the foregoing, it is manifest that a single, unitary brace, consisting of two or more elements or members 13 which cross each other at the approximate center of the strainer bowl, is provided by the present invention. It is also apparent that these elements or members 13 are incapable of relative movement, the loop 15 and clips 16 stopping relative movement in one direction and the shoulders 17 stopping it in the opposite or transverse direction. The brace members or elements 13 brace, reinforce and support each other and consequently better protect and brace the bowl 11 than would two or more unconnected, relatively movable brace elements or members.

What is claimed is:

1. A brace for strainer bowls or the like, consisting of a pair of crossed strips, one of said strips being folded upon itself to provide clips for engaging the edges of the other strip at the point of crossing, and shoulders on the latter strip lying against the lateral edges of said clip in the first strip.

2. A brace for strainer bowls or the like, including a relatively narrow metallic strip bent or curved to follow closely the exterior contour of a strainer bowl, a relatively narrow metallic strip bent or curved to follow closely the exterior contour of a strainer bowl and crossing exteriorly of the first strip, outwardly bent shoulders formed in the first strip at the point of crossing with the exteriorly crossing strip, and inwardly folded clips formed in the exteriorly crossing strip snugly seated in the indentation in the first strip defined by said shoulders for engaging the edges of the first strip.

3. A brace for strainer bowls or like devices, including a number of crossed strips, each of the strips being shaped or formed to provide means at the point of crossing of said strips for interlocking said strips with each other to prevent relative movement in all directions.

JOSEPH G. JACKSON.