

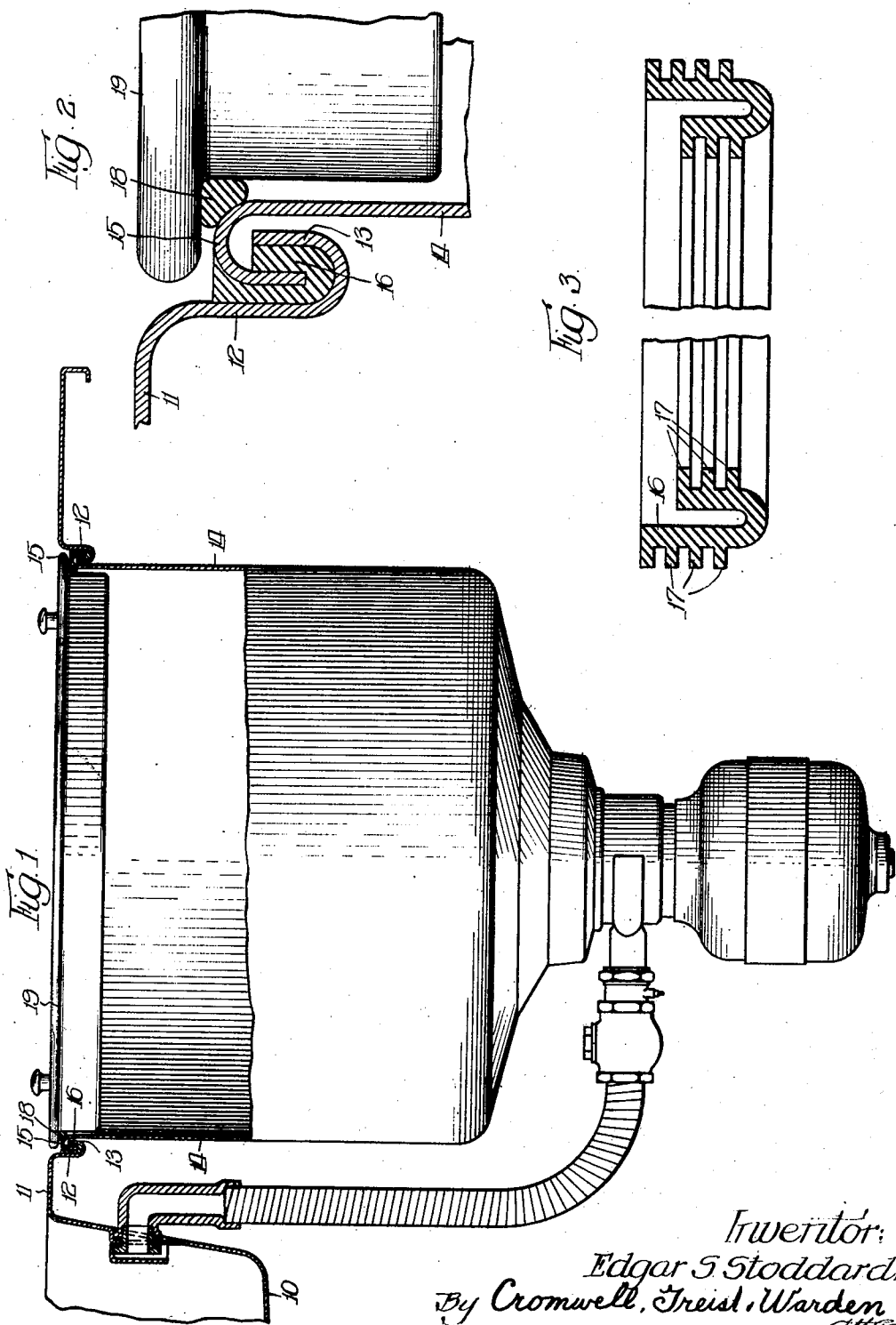
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SUSPENSION JOINT

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SUSPENSION JOINT

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2 Claims. (Cl. 248—16)

The present invention relates to tank suspensions, and has particular reference to an improved joint for the suspension of dishwashing machine tanks and the like.

A principal object of my invention is the provision of a joint whereby dishwashing machine tanks and the like may be removably suspended from suitable supporting members. An additional object is to provide a removable suspension joint which is water tight, and easily constructed. A further object is the construction of an improved type of gasket to be used in connection with the removable joint. These and other objects will be apparent from an understanding of the following description of a preferred embodiment of my invention.

In accordance with my invention the lower edge of a depending supporting flange or casing is turned inwardly and upwardly substantially parallel to the flange portion, and spaced therefrom. The upper edge of a dishwashing machine tank or other receptacle which it is desired to attach to the supporting flange is turned outwardly and downwardly substantially parallel to the tank portion and spaced therefrom. The tank is then lowered through the supporting casing so that the turned edges of the casing and tank interlock to form a loose joint. To render the joint water-proof and noiseproof, a flexible gasket substantially U-shaped in cross-section is fitted about the curled tank edge and into the channel formed by the upwardly extending edge of the supporting casing.

My invention will be further understood by reference to the following more specific description and the accompanying drawing, in which

Fig. 1 is a cross-sectional view of a dishwashing machine tank suspended from a sink assembly in accordance with my invention;

Fig. 2 is a detailed sectional view of the suspension joint used in the modification shown in Fig. 1; and

Fig. 3 is a cross-section taken through the center of a preferred form of gasket to be used in my tank suspension joint.

In the drawing, 10 represents a sink basin having an adjacent shelf or drain portion 11. The shelf 11 is provided with a cylindrical flange 12 depending therefrom. The lower edge portion of this flange is turned inwardly and upwardly substantially parallel to the cylindrical flange to form a curled portion 13 having a U-shaped cross-section, the sides of which portion are spaced a substantial distance apart.

Through the opening defined by flange 12 and

curled portion 13 is lowered a dishwashing machine tank 14, having a top 19 spaced from the tank by gasket 18. The upper edge of this tank is turned outwardly and downwardly substantially parallel to the walls of the tank to form a cross-section having an inverted U-shaped curled portion 15, which portion cooperates with curled portion 13 to form a loose interlocking joint. When the tank is in place the members 12, 15, 13 and 14 are spaced a substantial distance apart.

Inasmuch as the sink structure and tank are generally coated with vitreous enamel, and as it is desirable to make the joint both water-tight and noiseless, a circular gasket 16, composed of a resilient material such as rubber, and conforming to the shape of the cooperating portions of the joint, is provided. This gasket is a continuous ring substantially U-shaped, in cross-section, and is fitted about the curled portion 15 of the tank and into the channel formed by the inwardly and upwardly turned edge 13 of the cylindrical flange. In this manner, there is no contact of metal upon metal in the joint. The weight of the dishwashing machine insures a firm joint which is noiseless and water-tight.

It is preferred to employ the modified gasket shown in Fig. 3. This gasket is provided with outwardly extending projections 17. The gasket including projections 17 is preferably slightly greater in size than the distance between the upturned edge of curled portion 13 and the flange 12. When the tank is lowered, in position, with the gasket fitted about the downturned edge of curled portion 15, these flexible projections are readily contorted to form a firm connection regardless of slight irregularities in the shape of the flange and curled edge. A smooth gasket is less readily contorted to the exact shape of the flange and curled edge.

In certain instances it may be desirable that the flange 12 be eliminated, whereby the top of the tank will extend above the member 11. That is, the supporting member may be simply provided with an opening surrounded by an upturned flange. Also, it is not essential that the channel formed by flange 12 and curled portion 13 be continuous.

My invention is to be distinguished from certain prior art joints, for example, as shown in Patent No. 593,558, in which interlocking members are crimped to form a permanent union.

Many modifications of my invention will occur to one skilled in the art and such variations as come within the spirit of my invention are intended to be included in the appended claims.

I claim:

1. In combination, a sink shelf having a cylindrical flange provided with an inwardly and upwardly turned edge spaced therefrom to form a supporting channel, a tank provided with an outwardly and downwardly turned upper edge, said downwardly turned edge being removably fitted into said supporting channel to form a suspension joint, and a U-shaped gasket spacing said edges and supporting the weight of said tank.
2. In combination, a supporting member having a downwardly extending portion provided with an inwardly and upwardly turned lower

edge spaced therefrom to form a supporting channel, a supported member having an upwardly extending portion provided with an outwardly and downwardly turned edge spaced therefrom, a resilient U-shaped gasket mounted about said downwardly turned edge, the outer portions of said gasket being provided with vertically spaced projections contacting the walls of said supporting channel, said downwardly turned edge and said gasket being removably fitted into said supporting channel.

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