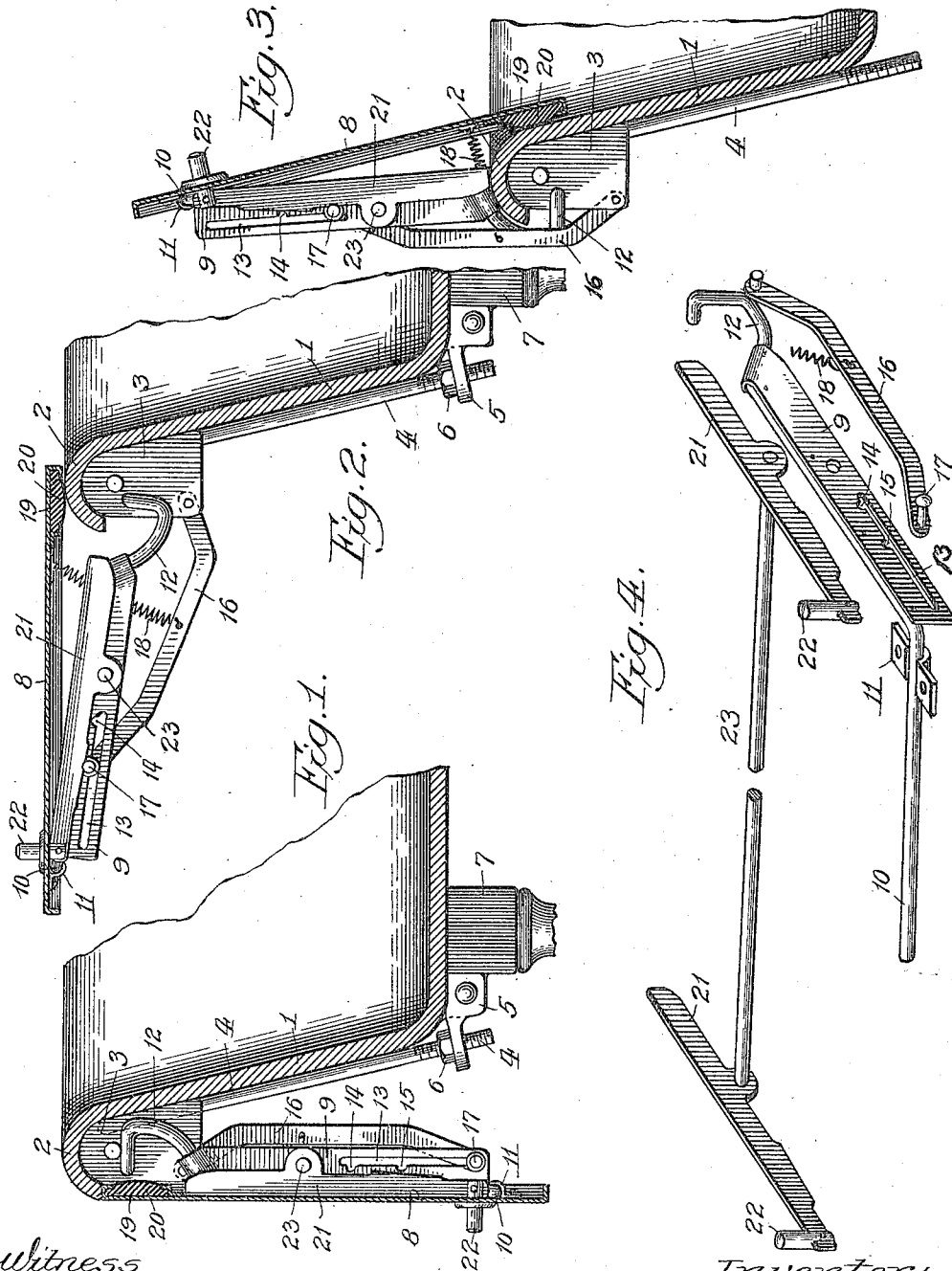


A. HETZNER.
 DROP LEAF ATTACHMENT.
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1,184,679.

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DROP-LEAF ATTACHMENT.

1,184,679.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT HETZNER, a citizen of the United States of America, and a resident of Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Drop-Leaf Attachments, of which the following is a specification.

This invention relates to a drop-leaf attachment for kitchen sinks and like uses, and has for its object to provide a simple and efficient structural formation and association of parts, in which the drop-leaf is capable of adjustment from a dropped or inactive position to an approximately horizontal position and also to an approximately vertical position, for different useful functions in connection with kitchen sinks and the like.

Another object is to provide in connection with said drop-leaf, a simple and convenient means for latching and holding the drop-leaf in the aforesaid horizontal and vertical positions.

Another object is to provide a simple and efficient structural formation of the free end of the aforesaid drop-leaf, whereby the marring of the margin of the sink in continued use, is prevented. All as will hereinafter more fully appear.

In the accompanying drawings:—Figure 1, is a vertical section of the present drop-leaf attachment in place on a kitchen sink, the drop-leaf being shown in the down or inactive position. Fig. 2, is a similar view, with the drop-leaf shown in the horizontal position. Fig. 3, is a similar view, with the drop-leaf shown in its vertical position. Fig. 4, is a detail perspective view of the carrying frame, brace arm and accessories, in a detached condition.

Similar reference numerals indicate like parts in the several views.

Referring to the drawings, 1 designates a portion of an ordinary kitchen sink having the usual curved marginal rim 2 beneath which, in the present improvement, a pivot block or head 3 is fixedly secured in any usual manner affording a substantial attachment. In the construction shown in the drawings the block 3 is held in place by a thrust bolt 4, the lower end of which passes through a bracket piece 5 and is provided with an adjusting nut 6 by means of which an upward thrust movement is imparted to

the bolt 4 and block 3 to effect the required attachment. The said bracket 5 is attached to the supporting leg 7 of the sink or to the usual ear on said sink with which said leg 7 has attachment.

8 designates the drop-leaf or board, and 9 designates the skeleton supporting frame therefor, and which is connected at its outer end to the drop-leaf 8 by its longitudinal rod 10 and bearing clip 11, or other usual means affording pivotal connection between the parts, and for the function hereinafter stated. The skeleton frame 9 is connected at its other end to the pivot 3 aforesaid, in a pivotal manner, and inside of and below the outer part of the rim 2 of the sink 1 as shown, and to this end the skeleton frame 9 is formed with an offset end 12 carrying the pintle or pin by which pivotal connection is had with the pivot block 3 aforesaid.

In the preferred construction illustrated in the drawings, the skeleton frame 9, comprises two transverse members connected together by the longitudinal rod 10 above described, and said transverse members are provided with web portions formed with elongated slots 13 and with a pair of socket recesses 14 and 15 in each longitudinal slot 13 as shown.

16 designates one of the brace bars of the present construction, pivoted at one end to the pivot block 3 aforesaid, and at a point below the pivot of the skeleton frame 9 above described, and as shown in Figs. 1, 2 and 3. At its other end said brace bar 16 is provided with a lateral stud 17 moving in the elongated slot 13 and adapted for successive engagement in the socket recesses 14, 15, as described in detail in the operation of the mechanism.

The drop-leaf or board 8, is usually of a rectangular form and has its sole and pivotal connection with the skeleton frame 9, through the longitudinal rod 10 above described, and is yieldingly held to place by a tension spring 18 extending from said drop-leaf 8 to the brace-bar 16 aforesaid. In the preferred construction, said drop-leaf 8 is formed by a marginally flanged plate of metal suitably enameled, and with its free end which is adapted to bear upon the rim 2 of the kitchen sink formed as follows: 19 designates a longitudinal recess formed in the underside of the drop-leaf 8, and adapt-

ed to contain a filler piece 20 of a yielding material, such as rubber, which acts as the bearing surface for the drop-leaf and prevents abrasion of the rim of the sink in actual use.

21 designates a pair of latch operating bars, each of which is individual to an end of the drop-leaf 8 and is provided at its outer end with an operating stud or push button 22 extending through a guide opening formed therefor in the drop-leaf 8, as shown. The operating bars 21 are connected together by a longitudinal rod 23 to move in unison, and each operating bar is individual to a transverse member of the skeleton supporting frame 9 aforesaid, and pivoted in the web portion of said transverse member by the aforesaid rod 23 at a distance inside the elongated slot 13, in said transverse member. The lower edge of said operating bar is adapted for operative engagement with the lateral stud 17 of an associated brace bar 16, to push said stud 17 out of its engagement in the socket recess 14 or 15 when the push button 22 is depressed by the hand of the operator. In such releasing manipulation it is necessary that the fingers of the operator's hand be used to support the drop-leaf 8 while the push-button 22 is being depressed, as otherwise said push-button would not move independent of the drop-leaf, owing to the fact that the operating bar 21 carrying said push button has its pivotal point on the skeleton supporting frame 9 and not upon the drop-leaf 8.

In actual use, the drop-leaf 8 in its inactive position shown in Fig. 1, will depend vertically with its upper edge, under the influence of the spring 18, drawn beneath and flush with the outer edge of the marginal rim 2 of the kitchen sink, as shown.

When it is desired to raise the drop-leaf 8 into the horizontal position shown in Fig. 2, the operator initially depresses the push button 22, to cause a movement of the operating bars 21, the outward movement of the remote ends of said bars, causing the free end of drop-leaf 8 to tilt outward beyond the outer edge of the marginal sink rim 2, after which said drop-leaf is free to be swung into the required horizontal position and is automatically locked thereat, by the engagement of the lateral stud 17 of the bracing bar 16, in the socket recess 15 of the skeleton supporting frame 9.

When it is desired to raise the drop-leaf 8, into the vertical position shown in Fig. 3, the operator by manipulating the push-button 22, in the manner heretofore described, initially releases the lateral studs 17 from its engagement in the socket recess 15 aforesaid, after which the drop-leaf can be moved into the required vertical position and it is automatically locked thereat,

by the engagement of the aforesaid lateral stud 17 in the socket recess 14 of the skeleton supporting frame 9.

When it is desired to return the drop-leaf 8 to the down position illustrated in Fig. 1, the operator by manipulating the push button 22 in manner heretofore stated, initially releases the lateral stud 17 from its engagement in the socket recess 14, and maintains said stud in said released condition while the drop-leaf is being swung down into the desired position.

While the invention is shown as applied to kitchen sinks, it is not however limited to such special application, and may be used in connection with the hinged leaf of household and like stands.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:—

1. The combination of a pivot block adapted for connection with the curved marginal rim of a kitchen sink, a supporting frame pivoted at its inner end to said block by means of an angular extension, a drop-leaf pivoted to the outer end of the supporting frame, and a hinged brace intermediate of the supporting frame and the pivot block aforesaid, substantially as set forth.

2. The combination of a pivot block adapted for connection with the curved marginal rim of a kitchen sink, a supporting frame pivoted at its inner end to said block by means of an angular extension, a drop-leaf pivoted to the outer end of the supporting frame, a hinged brace intermediate of the supporting frame and the pivot block aforesaid and having pivotal connection with said pivot block at a point below the point of pivotal connection of the aforesaid supporting frame, and a spring tending to draw the free end of the drop-leaf toward the brace, substantially as set forth.

3. The combination of a pivot block, a supporting frame pivoted at its inner end to said block and provided with a transversely extending elongated slot and a pair of socket recesses in spaced relation, a drop-leaf pivoted to the outer end of said frame, a brace pivoted at one end to said pivot block at a point below the point of pivotal connection of the aforesaid supporting frame and having a lateral stud at its other end for engagement in the elongated slot and socket recesses aforesaid, a spring tending to draw the free end of the drop-leaf toward the brace, and an operating bar pivoted to the supporting frame aforesaid and adapted for operative engagement with the aforesaid lateral stud, said operating bar having a push button at its front end disposed in a guide opening in the drop-leaf, substantially as set forth.

4. The combination of a pivot block

adapted to fit beneath the curved marginal rim of a kitchen sink, a thrust bolt attached to said block and having bearing upon an accessory part of said sink, a supporting frame pivoted at its inner end to said block by means of an angular extension, a drop-leaf pivoted to the outer end of the supporting frame, and a hinged brace intermediate of the supporting frame and the pivot block aforesaid, substantially as set forth.

5. The combination of a pivot block adapted to fit beneath the curved marginal rim of a kitchen sink, a thrust bolt attached to said block and having bearing upon an accessory part of said sink, a supporting frame pivoted at its inner end to said block by means of an angular extension, a drop-leaf pivoted to the outer end of the supporting frame, a hinged brace intermediate of the supporting frame and the pivot block aforesaid and having pivotal connection with said pivot block at a point below the point of pivotal connection of the aforesaid supporting frame, and a spring tending to draw the free end of the drop-leaf toward the brace, substantially as set forth.

Signed at Chicago, Illinois, this 12th day of March, 1915.

ALBERT HETZNER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."