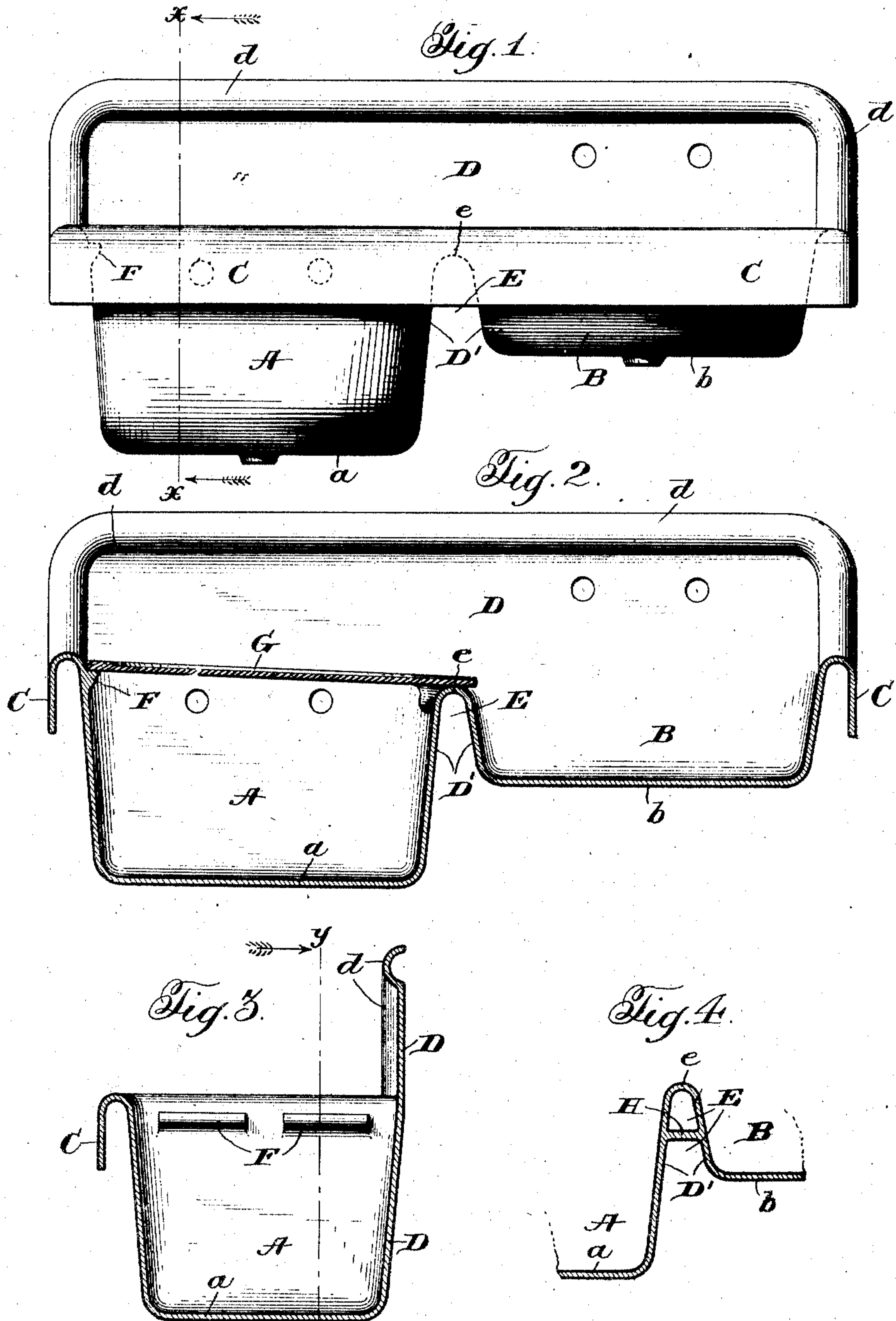


F. H. CALDWELL.
SINK, WASHTUB, AND SIMILAR ARTICLE.
APPLICATION FILED DEC. 14, 1908.

928,425.

Patented July 20, 1909.



Witnesses:
James Hutchinson.
Calvin T. Truitt.

Inventor:
Frank H. Caldwell,
by W. W. McLean Attorney.

UNITED STATES PATENT OFFICE.

FRANK H. CALDWELL, OF CHATTANOOGA, TENNESSEE, ASSIGNOR TO THE CAHILL IRON WORKS, OF CHATTANOOGA, TENNESSEE, A CORPORATION OF TENNESSEE.

SINK, WASHTUB, AND SIMILAR ARTICLE.

No. 928,425.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed December 14, 1908. Serial No. 467,496.

To all whom it may concern:

Be it known that I, FRANK H. CALDWELL, a citizen of the United States, residing at Chattanooga, in the county of Hamilton and State of Tennessee, have invented certain new and useful Improvements in Sinks, Washtubs, and Similar Articles, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in sinks; wash tubs, and similar articles, and more particularly to that class of ware commonly known as porcelain enameled cast iron.

The primary object of the invention is to provide an article of the general character stated, either in the nature of a casting, or finished device, possessing novel characteristics enabling the furnishing of two or more receptacles, such as basins, tubs, sinks, or other receivers, in a single casting possessing the strength and durability required in an article of this kind.

Novel details inherent in a structure made in keeping with my invention embrace, first, a formation of the means which separates the adjoining receivers, sinks, etc.,—more specifically the walls therebetween,—whereby to accommodate for serious differences in the temperature of the water etc., in adjacent tanks, and thus allow for the contraction and expansion, to protect the enamel and casting from cracking or breaking. Heretofore it has been attempted to provide, for instance, a pair of tubs, separated by a solid division wall, which said wall was of course at times subjected to very high heat derived from the contents of one of the tubs, and to extreme cold from the contents of the other tub.

My present invention comprehends, in lieu of the solid partition referred to, a hollow rib or wall closed at its top but open at its ends and also at its bottom where the sides of the same merge into the bottoms of the receptacles, whereby an air space intervenes the opposite sides of said rib or wall, and said sides are, if not entirely, to a very substantial extent, independent of each other so far as the expansive and contractive influence of the contents of the receptacles on the walls is concerned.

Secondly, the invention includes the provision of an article of the character referred

to provided with two adjoining receiving portions, separated by an intermediate partition, said partition terminating at its upper edge in a plane lower than the plane of the surrounding edge or marginal portion of the device, to cooperate with one of the ends of one of the receptacles in supporting a drain board whereby said drain board will occupy an inclined position within said receptacle to permit the usual drip or drain to run off from the dishes or the like.

With the foregoing characteristics of the invention in mind, I have shown in the accompanying drawings forming part hereof, a structure constituting one embodiment of the invention, and the details, and arrangement of such structure will be apparent from an inspection thereof in connection with the detailed description hereinafter contained.

In the drawings: Figure 1 is a front view of a combined sink and tub, Fig. 2 is a longitudinal section through the same showing in dotted lines the position occupied by a drain board, Fig. 3 is a transverse section on the line $x-x$ of Fig. 1, and Fig. 4 is a sectional view of a detail modification.

Referring more specifically to the drawings, wherein like reference characters refer to corresponding elements in the several views, A represents one receptacle and B an adjoining receptacle, it being understood that any number of adjoining receptacles may be utilized at will, and also that the specific character of the receptacles or receivers is quite immaterial, those in the present instance being shown as the usual wash tub and sink.

The receptacles A and B are cast integrally together, also integral with the surrounding margin or apron C and back D, the edge of the back being formed hollow as at d to strengthen the same and provide an outstanding rib.

It is to be noted that instead of a single wall being provided between the receptacles A and B, I provide a double or hollow partition D arched and integrally connected at the upper edge of the same, and the opposite sides merging and being complementary in thickness to the bottoms a and b of the receptacles. This arrangement affords practically independent inner walls for the receptacles A and B, which may, without lia-

bility of serious injury to the enamel or casting, be subjected to either intense heat or extreme cold at the will of the user of the device. The sides of the partition wall or rib are separated by the air space E so that although the sides are connected at their upper edges, this connection is not of such a substantial extent that any possible difference in the temperature of the contents of the two receptacles,—resulting in contrary actions on the metal, *i. e.*, expansion and contraction,—could have any serious or detrimental effect on the device as a whole, such as results from the subjection of the opposite sides of the same or a single thickness wall to the severely contrasting temperatures referred to.

The upper edge *e* of the hollow wall or rib is located a substantial distance below the plane of the upper surface of the marginal portion or apron C, and at the end of one of the receptacles, conveniently the receptacle A, there are one or more integrally formed supporting studs or flanges F, the upper or engaging surfaces of which are slightly above the plane of the upper edge of the hollow rib *e*, but also somewhat below the plane of the marginal or apron portion C. The purpose of the studs or flanges F is to constitute a rest for the outer end of a drain board represented at G, the lower end of the board resting upon the upper end *e* of the partition wall or rib. Thus the drain board will be inclined downwardly and inwardly toward the basin or sink B, and said drain board will also be confined entirely within the tub A and below the surrounding margin of said tub the drain board G when in use will, owing to its mounting on the tub A, also constitute a removable cover for the said tub.

In some instances where the tanks are very large and heavy, it may be desirable to provide one or more struts or braces H spanning the space E between the opposite sides of the hollow wall D' as shown in Fig. 4.

While I have disclosed in this application one embodiment of my invention and will in the hereto appended claims refer to a wash tub and sink, it will be clear to those skilled in the art that the invention is capable of many other embodiments differing in contour, arrangement, receptacles or receivers, etc., without in the least departing from the spirit of the invention.

The merits of this device arising from the single-piece formation of the casting, both from a sanitary standpoint, and that of strength and durability, are obvious.

Having thus described the invention, what is claimed is:

1. An article of the character described comprising a casting having an integrally formed adjoining wash tub and sink, the adjacent walls of the tub and sink forming a

hollow space opening at the bottom and ends to the exterior of the casting.

2. An article of the character described comprising a casting having an adjoining wash tub and sink, a marginal or apron portion bordering both said wash tub and sink, and a back extending upwardly beyond the wash tub and sink, all of integral formation, the adjacent walls of the wash tub and sink forming a hollow space opening at the bottom and ends to the exterior of the casting.

3. An article of the character described comprising a casting having an adjoining wash tub and sink, and a marginal or apron portion bordering both said wash tub and sink, all of integral formation, the adjacent walls of the wash tub and sink forming a hollow space opening at the bottom and ends to the exterior of the casting.

4. An article of the character described comprising a casting consisting of an integrally formed adjoining wash tub and sink, the adjacent walls of which form a hollow space opening at its bottom and ends to the exterior of the casting, and a continuous marginal portion bordering said front extending a substantial distance downwardly before the same and spaced therefrom, substantially as described.

5. An article of the character described comprising a casting consisting of integrally formed receptacles connected together by a partition wall or rib, and a marginal portion bordering both of said receptacles, the upper end of the partition wall or rib terminating in a plane below the upper surface of said marginal portion, and the end wall of one of the receptacles being provided with supporting means in a plane intermediate the top of the partition wall or rib and the upper surface of the marginal portion.

6. A casting of the character described consisting of an integrally formed wash tub and sink, the adjacent walls of which form a hollow space open at the bottom and ends to the exterior of the casting, said adjacent walls merging into each other and into the bottom portions of the tub and sink respectively.

7. A casting of the character described consisting of an integrally formed wash tub and sink, the adjacent walls of which form a hollow space open at the bottom and ends to the exterior of the casting and merge into each other and into the bottom portions of the tub and sink, and the connected top of said walls terminating at a point below the upper edges of the tub and sink, substantially as described.

8. In combination with a device of the character described consisting of an integrally formed adjoining wash tub and sink, a partition therebetween terminating at its upper edge in a plane below that of the upper surface of the device, of a cover for the tub

adapted to rest upon said upper edge of the partition to constitute a drain board discharging into the sink.

9. An article of the character described comprising a casting having adjoining receptacles the adjacent walls of which form a hollow space opening at the bottom and ends to the exterior of the casting, and a back common to both of said receptacles and extending upwardly from the upper edge of the same, all of integral formation.

10. An article of the character described comprising a casting having adjoining receptacles the adjacent walls of the receptacles forming a hollow space opening at the bottom and ends to the exterior of the casting, and a back common to both of said receptacles and extending upwardly from the upper edge of the same, and an apron connected to the upper edges of the receptacle spaced from the walls thereof and extending downwardly a substantial distance before said walls, all of integral formation.

11. An article of the character described comprising a receptacle having a back extending upwardly therefrom, the said back having an outstanding hollow rib reinforcing the margin thereof, and a rim portion surrounding the receptacle extending outwardly and downwardly from the upper edges thereof, and said rim merging into the outstanding reinforcing rib of the back, substantially as and for the purpose described.

12. An article of the character described comprising integrally formed adjoining receptacles having a common back extending upwardly therefrom, said back having an outstanding hollow rib reinforcing the margin thereof, and a rim portion common to and surrounding said adjoining receptacles extending outwardly and downwardly from the upper edges thereof, and said rim merging into the outstanding reinforcing rib of the back, substantially as and for the purpose described.

13. An article of the character described comprising integrally formed adjoining re-

ceptacles having a common back extending upwardly therefrom, said back having an outstanding hollow rib reinforcing the margin thereof, and a rim portion common to and surrounding said adjoining receptacles extending outwardly and downwardly from the upper edges thereof, and said rim merging into the outstanding reinforcing rib of the back, the adjacent walls of the two receptacles forming a hollow space therebetween, substantially as and for the purpose described.

14. An article of the character described comprising integrally formed adjoining receptacles having a common back extending upwardly therefrom, said back having an outstanding hollow rib reinforcing the margin thereof, and a rim portion common to and surrounding said adjoining receptacles extending outwardly and downwardly from the upper edges thereof, said rim merging into the outstanding reinforcing rib of the back, the partition between the adjoining receptacles terminating in a plane below that of the upper surface of the rim.

15. An article of the character described comprising integrally formed adjoining receptacles having a common back extending upwardly therefrom, said back having an outstanding hollow rib reinforcing the margin thereof, and a rim portion common to and surrounding said adjoining receptacles extending outwardly and downwardly from the upper edges thereof, said rim merging into the outstanding reinforcing rib of the back, the adjacent walls of the receptacles forming a hollow space and merging into the bottoms of the receptacles and also into each other at a point below the plane of the upper surface of the rim.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK H. CALDWELL.

Witnesses:

G. A. MARVIN,
JAS. H. MILANS.