A. B. Nott,

Sink.

No. 112,621. Patented Mar. 14, 1871.

Fig. 1

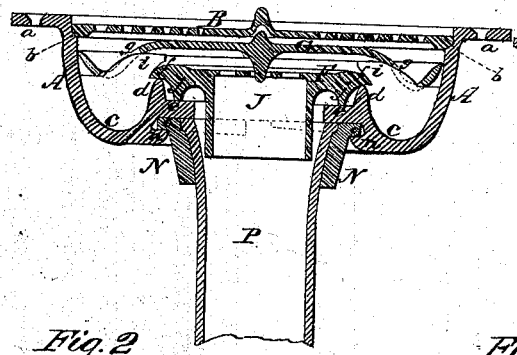


Fig. 4

Fig. 5

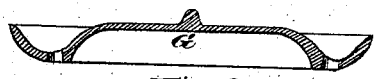


Fig. 6

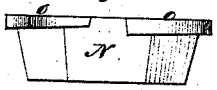


Fig. 2

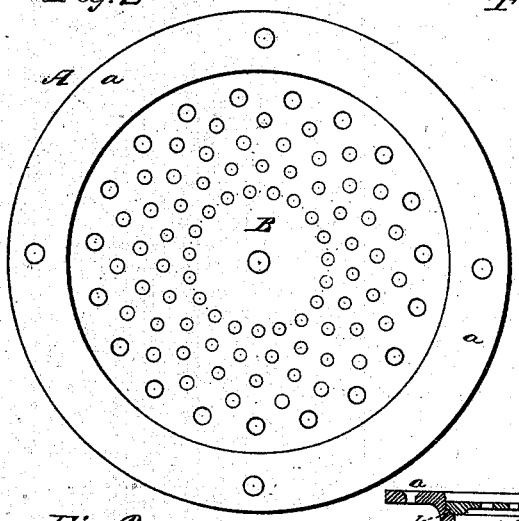


Fig. 7

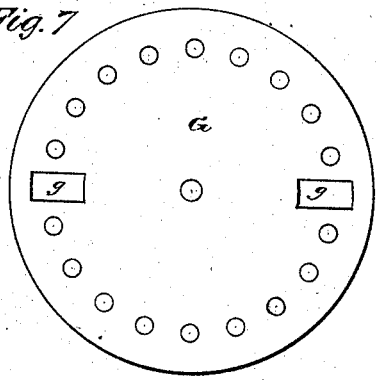


Fig. 8

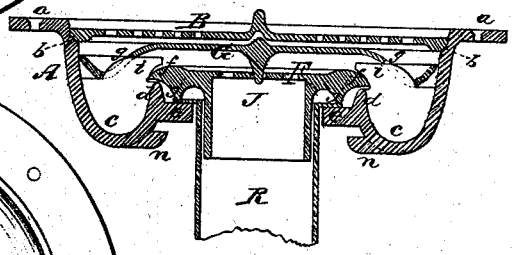
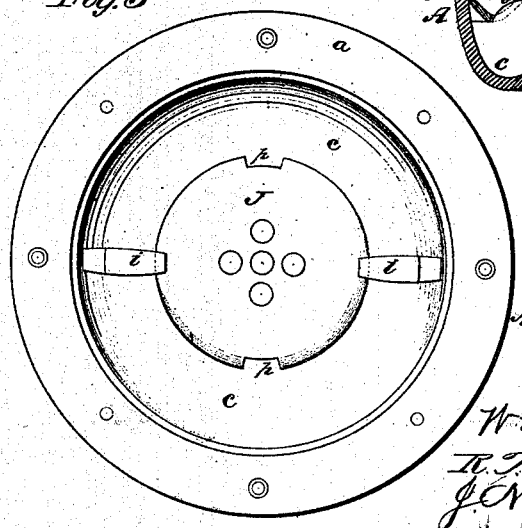


Fig. 3



Inventor
Aaron B. Nott.
by Mason, Fenwick & Lawrence

Witnesses
R. T. Campbell
J. N. Campbell

United States Patent Office.

AARON B. NOTT, OF FAIRHAVEN, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND P. E. MERRIHEW, OF SAME PLACE.

Letters Patent No. 112,621, dated March 14, 1871.

IMPROVEMENT IN THE MODES OF ATTACHING PIPES TO SINKS, DRAINS, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern.

Be it known that I, AARON B. NOTT, of Fairhaven, in the county of Bristol and State of Massachusetts, have invented a new and improved Mode of Attaching Pipes to Kitchen-Sinks, Drains, and Sinks of all kinds; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a diametrical section through a sink-basin, having a pipe secured to its bottom side.

Figure 2 is a top view of the basin covered by its perforated plate.

Figure 3 is a top view of the basin, with two of its perforated plates removed.

Figures 4, 5, 6, and 7 are views, in detail, of parts which belong to the basin.

Figure 8 is a diametrical section through the basin, showing a thin metal pipe applied to it.

Similar letters of reference indicate corresponding parts in the several figures.

On the 23d day of November, A. D. 1869, Letters Patent of the United States were granted to me for an invention which was designed for securing waste-pipes to kitchen-sinks. In the schedule making part of my said Letters Patent it is set forth that the invention consists in securing a waste-pipe to the upper side of a concave depression, which is made into the bottom of a sink, by means of a clamping-cap, and a packing-ring, which the said bowl or depression was adapted to receive.

My present invention is applicable to sinks for domestic purposes, whether made of iron, wood, soapstone, or other material; also, to gutters for houses, to drains, cesspools, and to tanks of various kinds.

It consists—

First, in a flanged bowl or basin, having a centrally-raised rim in its bottom, surrounding a double annular seat above and below, which latter are fastening-lugs, said seat being adapted to receive on its upper side a flange which is formed on a packing-tube or collar, and on its bottom side the end of a waste-pipe, and a nut for securing the pipe in place, as will be hereinafter explained.

Second, in a double seat, having lugs above and below it, adapted to receive and hold firmly in place upon its upper side a flanged packing-tube, and also to receive and hold in place to its bottom side a waste-pipe and the retaining-nut thereof, whether said seat and lugs be cast in a depression which is formed on a tank, or whether the said parts be cast separately and afterward secured to a tank or other object, as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawing—

A represents a bowl or basin, which is not cast with a tank, and which may be circular, rectangular, or of any other shape adapted to the object for which it is designed.

This bowl is constructed with a flange, *a*, around its margin, which is perforated, for allowing it to be secured above or beneath the bottom of a tank or other object.

An annular depression, *c*, is made in the bottom of the bowl A, which depression surrounds an annular elevation, *d;* and within this elevation, below its upper margin, is an annular flange, *e*, the upper and bottom sides of which are smooth and horizontal, and form two seats.

Inside of the bowl, and rising from the annular depression *c*, are two overhanging lugs, *i i*, which are arranged diametrically opposite each other, and slightly overhang the flange *e*, as shown in figs. 1 and 3.

The upper side of the flange *e* receives through it and supports a flanged tube, F.

The bottom side of said seat *e* receives against it the upper end of a waste-pipe, P, and the upper flanged end of a confining-nut, N, which is forced home against the seat by the action of the tapering flanges O O upon two lugs *n n*.

The lugs *n n* are cast on the bottom of the bowl A, diametrically opposite each other, and serve, in conjunction with the two tapering flanges O O, to allow the upper end of pipe P to be forced snugly against the bottom of flange *e*.

It will be seen that the upper end of pipe P is spread out so as to give it a flaring shape, and that the interior of the nut N is made to correspond to such shape, thus firmly securing the pipe P into the nut, and preventing its detachment from the bowl A except by first detaching the said nut.

The flanged tube F is constructed with a tubular portion, J, that extends down through the opening surrounded by the seat *e*, and fits snugly into the pipe P.

This tubular portion J terminates at its upper end in a perforated diaphragm, which is surrounded by a flange, *f*, which has an annular rib, *j*, formed on its bottom side, that is forced down hard upon the upper side of the flange *e*, when the flange *f* is confined in place beneath the lugs *i i*, as shown in figs. 1 and 2.

The notches *p p*, into the edge of the flange *f*, allow this flange to be adjusted beneath the lugs *i i*.

B is a perforated strainer-disk, which is inserted

into the bowl A, and supported upon a shoulder, *b*, formed in this bowl near its upper margin.

Beneath this strainer is another strainer, which is slotted at *g g*, so that it will receive the upper portions of the lugs *i i* and rest down snugly in place.

This strainer is dome-shaped centrally, so as to cover the perforated end of tube J, and it has an annular depression near its circumference, which is perforated and received more or less into the annular portion *c* of the bowl A, as shown in the accompanying drawing.

In fig. 8 a thin metal pipe, R, is represented secured to the bowl, with a flange on the upper end of this pipe resting upon the upper side of the flange *e*, and confined down in place by means of the flange which is on the upper end of the tube J.

It will be seen, from the above description, that I am enabled to attach pipes of different kinds to a bowl, A, in a very secure manner, and without liability of leaking, and also to readily detach a pipe from the bowl at pleasure, for cleaning out, repairing, &c.

It will also be seen that the bowl A may be made separate from the object for which it is designed, and secured either to the upper or bottom side of such object.

It will also be seen that pipes may be attached, as above described, to depressions cast in the bottoms of tanks and other objects, instead of to the detachable bowls.

By my invention I greatly facilitate the process of molding, as I obviate the necessity of setting cores, which, under the old plans, are necessary to be used to produce the pipes on the bowls.

Having described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The annular double seat-flange *e*, formed within a raised portion, *d*, of the flanged bowl A, in combination with lugs *i i n n*, substantially as and for the purposes described.

2. The flanged tube F, constructed as described, and combined with the seat *e*, substantially as described.

3. The flanged nut N and pipe P, in combination with the flange *e* and lugs *n n*, and with the flanged tube F, substantially as described.

Witnesses: AARON B. NOTT.

ISAAC THACHER,

H. W. RICHMOND.