

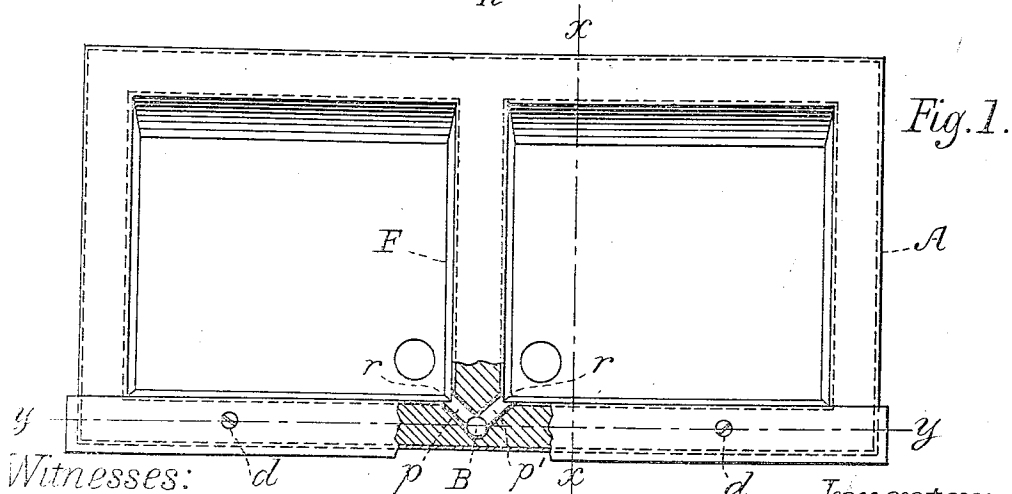
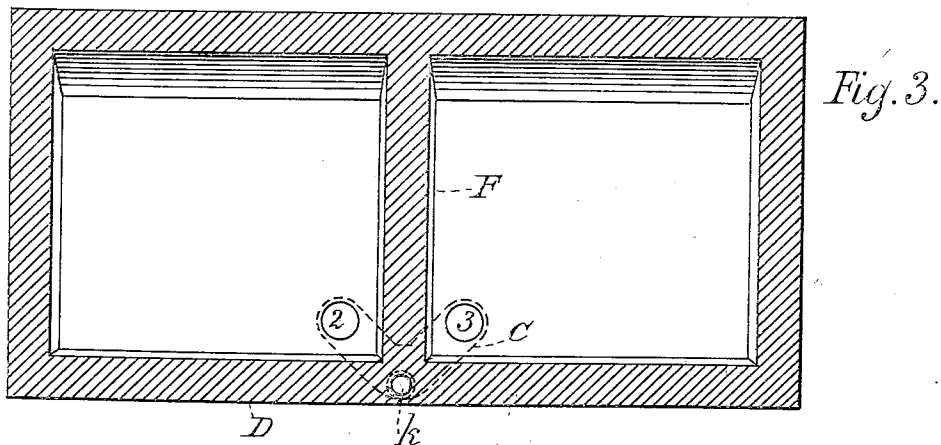
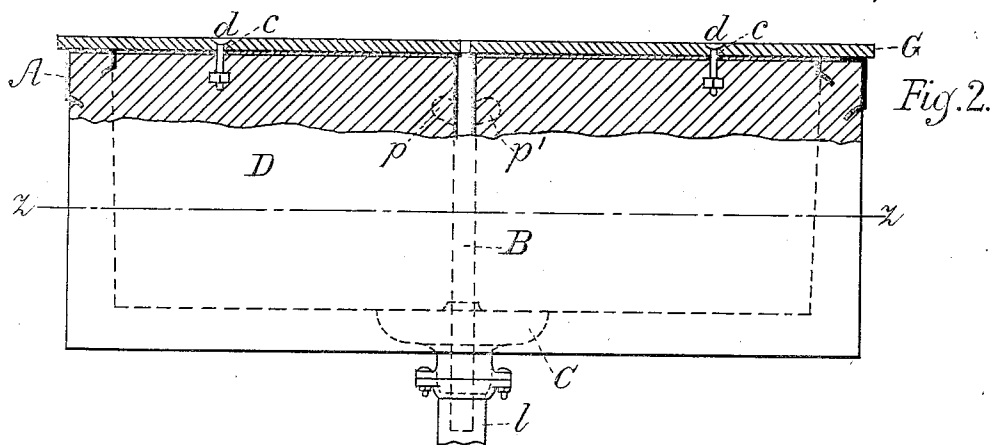
(No Model.)

2 Sheets—Sheet 1.

J. DE GROFF.
WASHTUB.

No. 499,781.

Patented June 20, 1893.



Witnesses:

Hugo Conrooch
Wm. Hargrove

Inventor:

John De Groff
by Fred. Arto's
his atty.

(No Model.)

J. DE GROFF.
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2 Sheets—Sheet 2.

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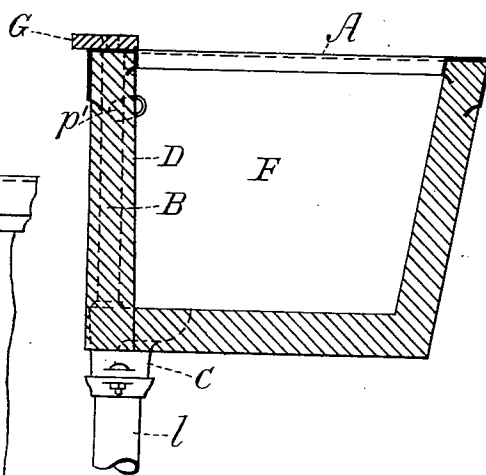
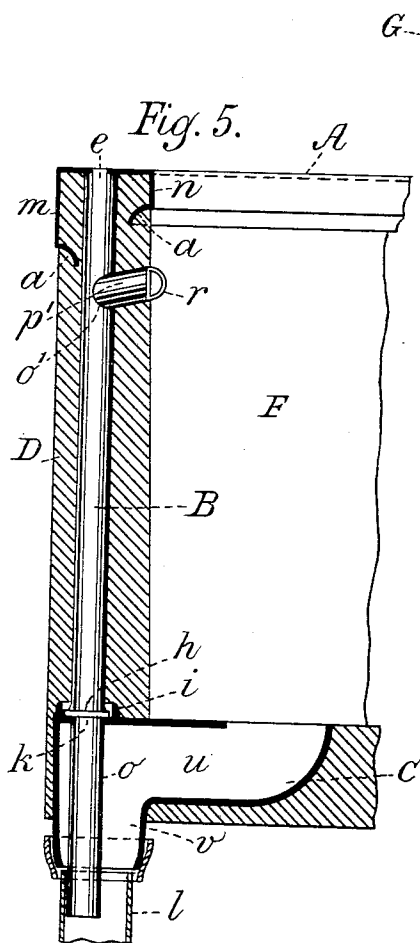
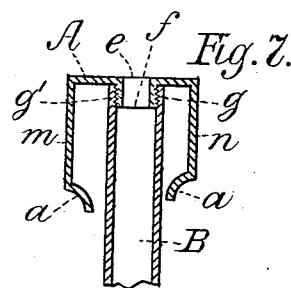
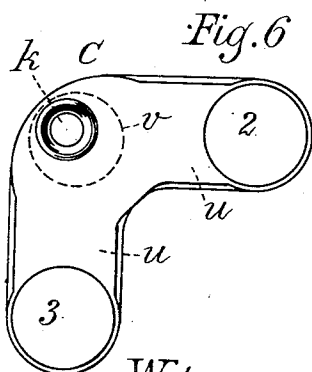
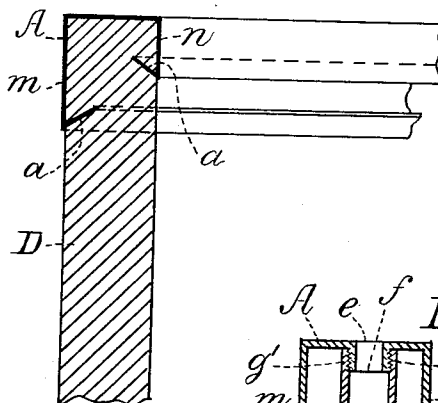


Fig. 8.



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his atty.

UNITED STATES PATENT OFFICE.

JOHN DE GROFF, OF CHICAGO, ILLINOIS.

WASHTUB.

SPECIFICATION forming part of Letters Patent No. 499,781, dated June 20, 1893.

Application filed May 9, 1892. Serial No. 432,373. (No model.)

To all whom it may concern:

Be it known that I, JOHN DE GROFF, a citizen of the United States of America, residing at Chicago, in the county of Cook, State of Illinois, have invented a new and useful Improvement in Washtubs, of which the following is a description, reference being had to the accompanying drawings, the same forming part of this specification.

My invention refers to partitioned wash-tubs for laundry use and consists, first, in the construction of a metallic frame covering the top of the same, in combination with a drain-pipe, the same connected with the waste-pipe of the enlarged head, and secondly in the combination of the rear-wall of the tub with the drain-pipe, the same having overflow-pipes connected with overflow-openings partially in said wall and partially in the partition-wall, and finally my invention consists in the construction of the enlarged head of the waste-pipe and its connection for draining the sections of the said tub.

Referring to the drawings—Figure 1 is a top-view of a partitioned wash-tub. Fig. 2 is a rear-elevation of the same partially in section on line $y-y$. Fig. 3 is a horizontal section of the tub on line $z-z$ of Fig. 2. Fig. 4 is a transverse section on line $x-x$ of Fig. 1. Fig. 5 exhibits on enlarged scale and vertical longitudinal section the waste arrangement. Fig. 6 represents in top-view the head of the waste-pipe. Fig. 7 shows a detail in sectional-view of a fraction of the drain-pipe in connection with the frame, and Fig. 8 is a modified construction of the top-frame of the tub.

The frame A for covering the upper ends of the partitioned tub to protect the same from injury, consists of a strip of suitable metal, bent on both sides m, n down at a right angle terminating with to the inside turned concave molded ends $a, -a$, in opposite direction each to the other, and is the even surface of the frame which covers the rear-wall D of the tub provided with holes $c, -c$, to fit the projecting top-end of screws $d, -d$, embedded in the materials of the same, and an aperture e , with a downward extending flange f , having external screw-threads g to connect with the threaded upper end portion g' of the drain-pipe B. The same is inclosed in the

aforesaid rear-wall behind the partition of the tub and provided below with a flange h , which rests in the recessed boss i of the drain-hole k of the head C, and the projecting end-portion o of the drain-pipe terminates into the waste-pipe l of the same. The upper part of the said drain-pipe bears an aperture o' , with branching overflow-pipes $p-p'$, the end-openings of which are V shaped, to fit the overflow openings $r, -r$, in the corners partially in the rear-wall D and in the joining partition F, which divides the tub into sections.

The head C of the waste-pipe is located in the bottom of the tub, and made in one piece of metal, inside hollow and with branching channels $u, -u$, projecting at right angles each to the other in shape of a triangular figure, in the apex of which is the recessed drain-hole k , to support the flanged drain-pipe, and in line below the same, from the bottom of the said head a downwardly projecting exhaust channel v , connected with the waste-pipe l . The channels of the head are provided at ends with plug-holes communicating with both sections of the tub, for draining off the contents of the same to exit.

In manufacturing the tubs, the screws $d-d$, the drain-pipe B with its branching overflow-pipes $p-p'$, enlarged head C of the waste-pipe and the metallic frame A, are placed in required position in the mold, and in casting, covered so far as necessary from the materials used, with the exception of the metallic frame, which receives the plastic mass within the sides $m-n$, so as to appear when finished, the said frame to be slipped over the top-portion of the walls, instead of flush with the same, and the turned ends a anchored in the side of the walls, thus preventing the same becoming detached.

In the process of casting the tub the aforesaid screw-bolts $d, -d$, are embedded with the nuts on it, into the wall of the same, and the top-ends projecting through the holes $c-c$ of the frame A, for the purpose, when the mass is settled in the mold and sufficiently hardened, to unscrew the bolts from the embedded nuts. A fitting wooden strip G, is placed on top of the frame on the rear wall, and by replacing the said screw-bolts, passing through corresponding openings in the

strip and entering the nuts, to be held in secured position. The wooden strip is introduced to serve as a base for a lid, hinged thereon for covering the tub.

5 A modified construction of the metallic frame A, is shown in sectional view Fig. 8 of the drawings, in which the sides $m-n$ terminate with straight ends bent up in angular position, instead of concave shaped to the
10 inside turned ends as represented in Fig. 5, and in place of the metallic overflow-pipes $p-p'$ as shown in the aforementioned figure, channels, molded in the materials of the tub at an angular elevation, leading from the
15 overflow-openings $r-r$, to the aperture o' in the drain-pipe B, can be substituted.

Having thus described my invention, I claim—

1. In a partitioned wash-tub, the metallic
20 frame A, having concave shaped ends anchored into the walls of the tub, said frame provided with holes on its surface and an aperture e , with screw-threaded flange the same in combination with drain-pipe B em-
25 bedded in the rear-wall D of the tub in front of the partition-wall of the same, said drain-pipe provided with a screw-threaded top-portion g' , flange h , and an aperture o' with ex-
30 tending branching overflow-pipes $p-p'$, the same having V shaped end-openings connecting with overflow-openings $r-r$ partially in

the rear-wall and in the partition wall of the tub, substantially as shown and for purpose described.

2. In a partitioned wash-tub, the combina- 35
tion of a metallic frame A, having concave shaped ends and provided on its surface with holes and an aperture having a screw-threaded flange; with a perforated and flanged
40 drain-pipe B, the same having a threaded end-portion and provided with branching overflow-pipes, having V shaped ends, said drain-pipe arranged in the rear wall of the
45 tub in front of the partition-wall, in connection with the enlarged head C of the waste pipe in the bottom of the tub, said head having projecting channels $u-u$, with plug-holes, branching from an exhaust channel v of the
50 head at diverging angles bearing in the apex of the same a recessed drain-hole k , and in connection with the rear-wall D of the tub and frame A, removable screw-bolts $d-d$, connecting with fitting nuts, the same embedded in the said wall, substantially as illustrated and for purpose set forth. 55

In testimony whereof I have set hereunto my signature in the presence of two subscribing witnesses.

JOHN DE GROFF.

Attest:

FRED. ARTOS,
WM. F. RUPP.