No. 741,137. PATENTED OCT. 13, 1903.

F. JAGER.

ARTIFICIAL STONE TUB.

APPLICATION FILED JUNE 23, 1903.

NO MODEL.

Fig. 1,

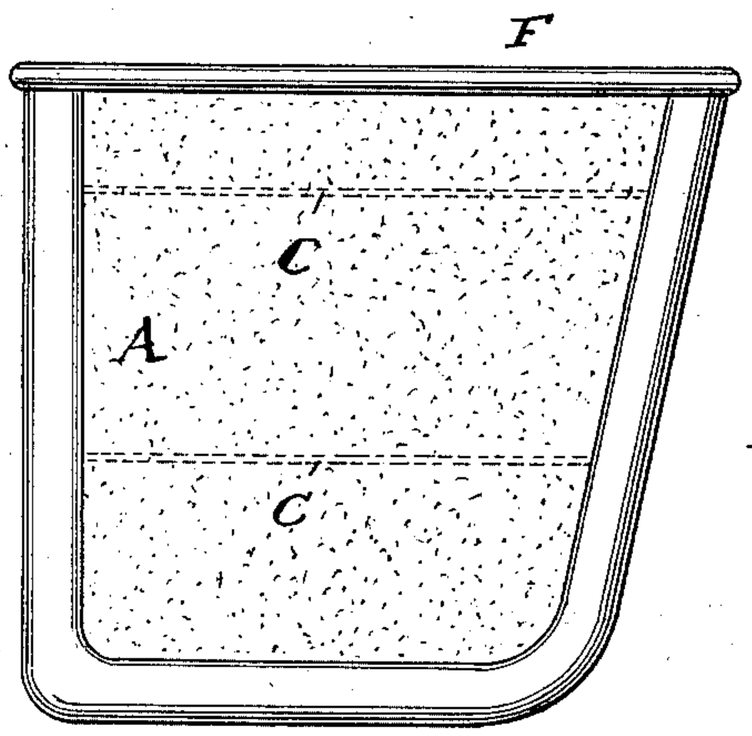


Fig. 3,

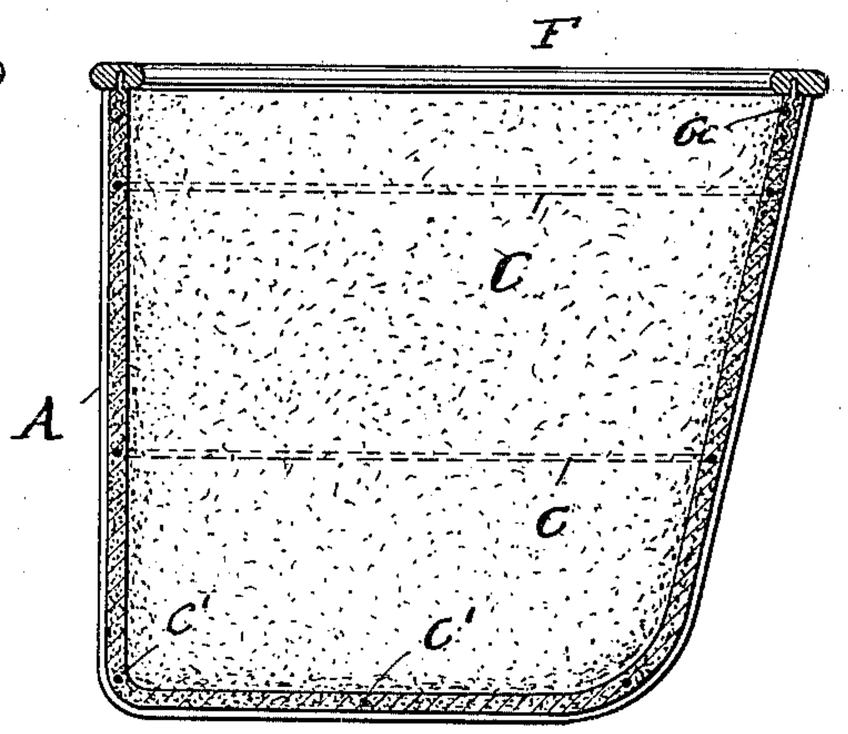
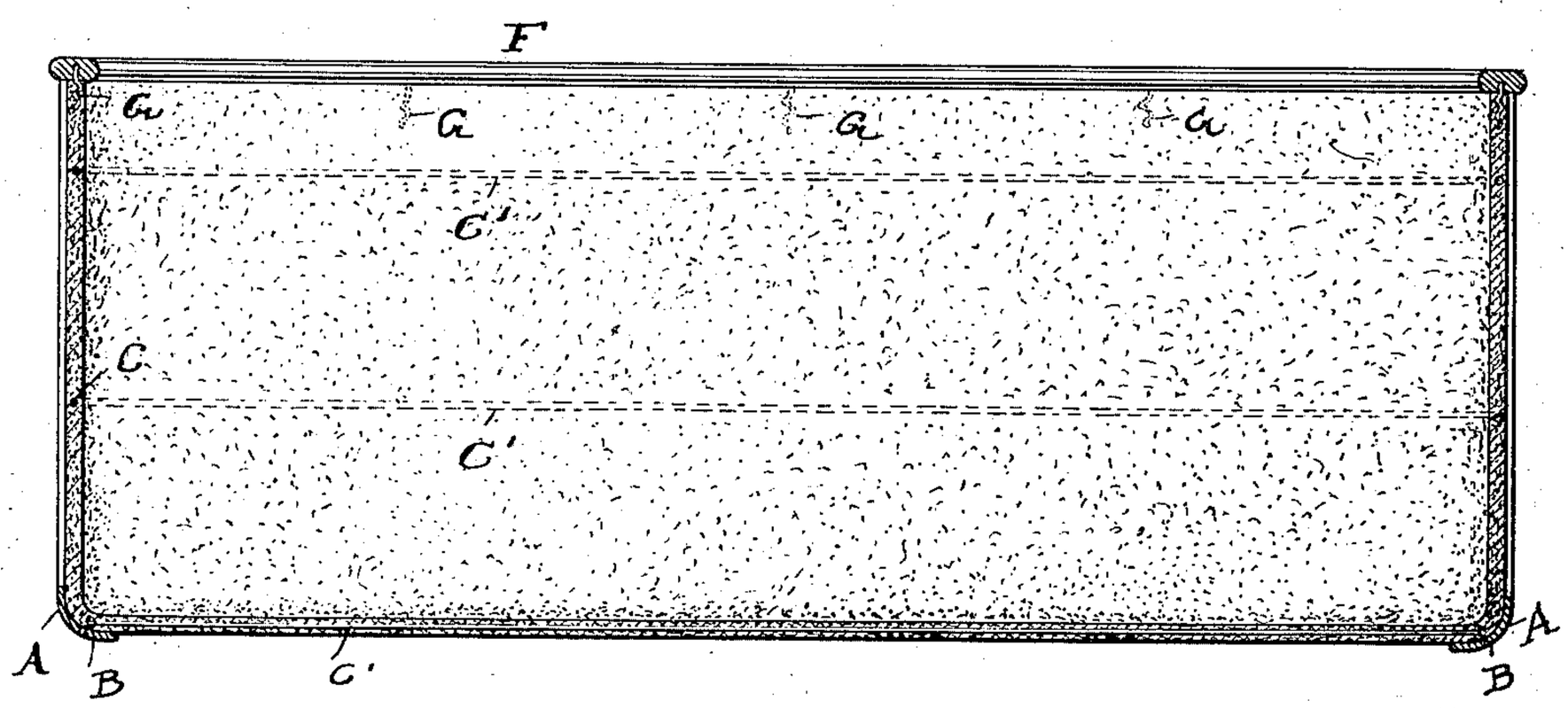


Fig. 2.



WITNESSES:

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No. 741,137. Patented October 13, 1903.

UNITED STATES PATENT OFFICE.

FRANK JAGER, OF WEST HOBOKEN, NEW JERSEY.

ARTIFICIAL-STONE TUB.

SPECIFICATION forming part of Letters Patent No. 741,137, dated October 13, 1903.

Application filed June 23, 1903. Serial No. 162,824. (No model.)

To all whom it may concern:

Be it known that I, FRANK JAGER, a citizen of the United States, residing at West Hoboken, county of Hudson, State of New Jersey, have invented certain new and useful Improvements in Artificial-Stone Tubs, of which the following is a specification.

The object of my invention is to provide a new improved artificial-stone tub which is simple in construction, light, strong, and durable, cannot crack or warp, is not injuriously affected by acids or soaps, and is not expensive.

In the accompanying drawings, in which like letters of reference indicate like parts in all the figures, Figure 1 is an end view of a laundry-tub made according to my invention. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a vertical transverse sectional view of the same.

The tub is constructed with two end frames A, of cast metal, cast-iron being preferred, which end frames are substantially U-shaped and are curved approximately L-shaped in transverse section, with the corners rounded more or less. Hooks B of any suitable shape are cast integral with the flanges of the frame and with the bottom, so as to project from the inner sides of said members. Said hooks are preferably formed by inserting bent and hook-shaped pieces of wire into the mold before such end pieces are cast, so that the ends of such bent wires are firmly embedded and secured in the metal of the end frame. The side flanges of each end frame are connected with each other by a series of wires or metal rods C, the ends of which are secured on the above-mentioned hooks. The end frames A are spaced a distance apart commensurate with a desired length of the tub, and the corresponding upright flanges and the bottoms of the two end frames are also connected with each other by wires or metal rods C′, attached to the aforesaid side hooks, so that these wires or metal rods, with the end frames, form a metal skeleton for the tub. A wooden top frame F is placed upon the top of this skeleton, and from the same a series of corrugated pins or screws G extend downward. The metal skeleton of the tub is then placed into a suitable mold, and a core is placed within the skeleton, so as to form a space between them equal to a desired thickness of the walls of the tub and within which space the tie rods or wires C C′ are located. An artificial-stone composition—such, for example, as a mixture of cement, fine sand, and cinders, or any other suitable stone composition—is then cast into the space between the mold and the core and permitted to solidify and harden. The tie rods or wires C C′ are embedded in the walls of the tub. Before the composition of the walls hardens the wooden frame F is placed upon the metal skeleton in such a manner that the corrugated pins or screws G pass into the upper edge of the still soft walls of the tub, so that when these walls harden the projecting ends of these corrugated pins or screws will be firmly embedded in the walls, whereby the wooden top frame is held securely on the top of the tub.

Laundry-tubs, sinks, pickling tubs or vats, and like vessels can be made in the manner described.

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

1. In a tub, the combination with cast-metal end frames L-shaped in cross-section, of eyes projecting from the inner sides of said end frames, tie-rods uniting the flanges of the end frames and secured to said eyes, and tie-rods uniting the end frames at the front and rear sides and bottom of the tub, also secured to hooks in the end frames and stone composition, end, front, rear and bottom walls between and in the end frames, in which walls the tie-rods are embedded, substantially as set forth.

2. In a tub, the combination with cast-metal end frames, of hooks projecting from the inner sides of said end frames, tie-rods uniting the flanges of the frames and uniting the two end frames at the front, rear and bottom of the tub, a wooden top frame having downwardly-projecting pins and end, front, rear

and bottom walls of artificial-stone composition, in which walls the said tie-rods and the downwardly-projecting pins of the wooden top frame are embedded, substantially as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 23d day of May, 1903.

FRANK JAGER.

Witnesses:
OSCAR F. GUNZ,
MARION HALL.