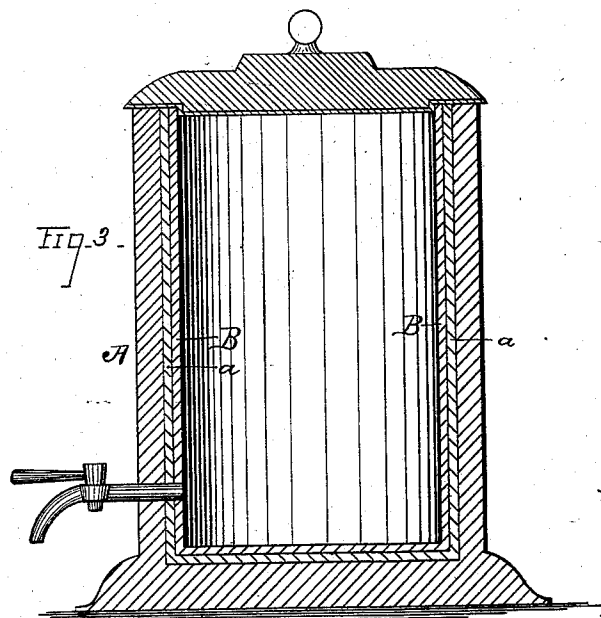
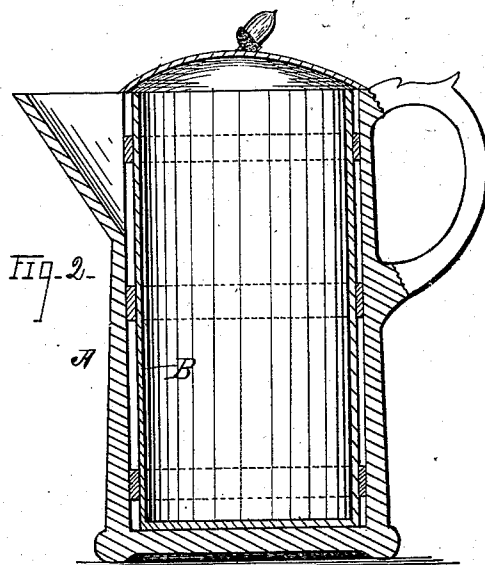
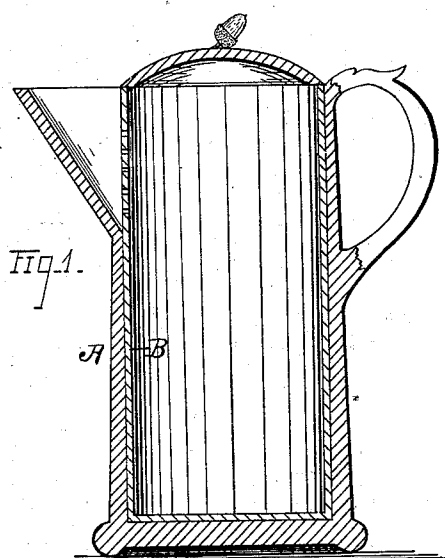


M. C. LEFFERTS.
Celluloid Lining for Ice Pitchers and Vessels of a
Similar Nature.

No. 219,279.

Patented Sept. 2, 1879.



WITNESSES.

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UNITED STATES PATENT OFFICE.

MARSHALL C. LEFFERTS, OF NEW YORK, N. Y.

IMPROVEMENT IN CELLULOID LININGS FOR ICE-PITCHERS AND VESSELS OF A SIMILAR NATURE.

Specification forming part of Letters Patent No. **219,279**, dated September 2, 1879; application filed July 25, 1879.

To all whom it may concern:

Be it known that I, MARSHALL C. LEFFERTS, of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Celluloid Linings for Ice-Pitchers and Vessels of a Similar Nature, of which the following is a specification, reference being had to the accompanying drawings.

The invention relates to improvements in the manufacture of ice-pitchers, water-coolers, and vessels of an analogous nature.

Its distinctive novelty consists in providing a suitable vessel having an interior well or lining, either fixed or removable, or a coating or surface of celluloid, pyroxyline, or analogous material, the celluloid or analogous material being applied alone in a solid or liquid state, or in connection with other substances for subsidiary purposes, as hereinafter set forth.

Among the most desirable vessels of the class to which the invention relates that have heretofore been known, those having linings of porcelain, glass, or similar material have been especially esteemed. The materials so utilized for linings have been such as have a highly-polished surface impervious to water, which may be readily cleaned, and which at the same time perform to a greater or less extent the offices of non-conductors of heat, whereby the temperature of the interior of the vessel remains relatively unaffected by the usual changes in the temperature of the atmosphere. To prevent their being easily broken, however, the linings of this class of vessels have been necessarily so thick as to reduce considerably the capacity of the vessel, while its weight has been increased and the danger of breaking the lining when filling the pitcher with ice, or in other ways, by no means successfully avoided. The brittle nature of the linings has been a constant source of accident in the hands of the consumer, and of loss and annoyance to the manufacturer.

To correct these as well as other objections, which need not be herein recited, and to provide a vessel having the most desirable characteristics, are the objects of my invention.

In the accompanying drawings, Figures 1, 2, and 3 are central vertical longitudinal sec-

tions of devices containing an incorporation of the elements of the invention.

The invention may be successfully practiced in several ways, which I proceed to describe.

In some instances I prepare a shell of celluloid, pyroxyline, solid collodion, or analogous material, of any desired thickness, which is provided with a bottom and otherwise adapted to be fitted to form a lining for the interior of the vessel, and which is secured in place in any suitable manner. By preference, the material will be fabricated in the form of a cylinder of a diameter adapted to the interior of the vessel, sections of which will be cut off and provided with bottoms and otherwise appropriately manipulated to form a complete lining. When a shell of any kind is used it will be constructed as thin as possible and applied in contact with the case of the vessel, or separated from the case, as may be preferred.

If the shell is separated from the case, it may be stiffened by means of bands or hoops of any kind; or the shell may be supplemented by a back of any suitable description, which may be applied between the shell and the case of the vessel, in which event the diameter of the cylinder, if the shell is constructed in that way, will, of course, be appropriately adapted to afford room for the back. The back may be constructed in any way, of wood, paper, metal, or other material, and applied and secured in any manner. The constructions I have described are desirable; but I do not limit myself to any particular construction or application.

The invention may also be practiced by applying the celluloid, pyroxyline, or analogous material in a liquid state, by means of a brush or otherwise, either directly upon the interior surface of the case of the vessel or upon any material suitable to hold it and to be formed into a lining. When the celluloid or analogous material is used in a liquid state it will be made in the form of a varnish and applied as such materials are usually applied, so as to form a heavy coating.

In Figs. 1 and 2 of the drawings applications of the invention are shown, A denoting the body of the pitcher, and B the lining of celluloid or analogous material. The lining in

these instances is in the form of a shell, which in one case is in contact with the case of the vessel, and in the other separated from it and stiffened by bands or hoops.

In Fig. 3 is shown a vessel having a lining, B, of celluloid or analogous material, and a back, a, of any suitable substance, the whole fitted into the pitcher in any desirable way.

Other applications and ways of practicing the invention will suggest themselves without explanation; but, as hereinbefore recited, I do not limit myself to any particular method or application, as the improved result may be effected in many ways, and is substantially the same in all instances if the interior surface of the vessel is formed of any of the materials specified.

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

1. An ice-pitcher, or vessel of an analogous

nature, having an interior lining of celluloid or analogous material, substantially as set forth.

2. An ice-pitcher, or vessel of an analogous nature, provided with a lining consisting of a face of celluloid or analogous substance and a back of another material, substantially as described.

3. An ice-pitcher, or vessel of an analogous nature, the interior surface of which is provided with a coating or surface of celluloid or analogous material, substantially as described.

In testimony that I claim the foregoing improvement in ice-pitchers and vessels of a similar nature, as above described, I have hereunto set my hand.

MARSHALL C. LEFFERTS.

Witnesses:

ROWLAND COX,
CHAS. C. GILL.