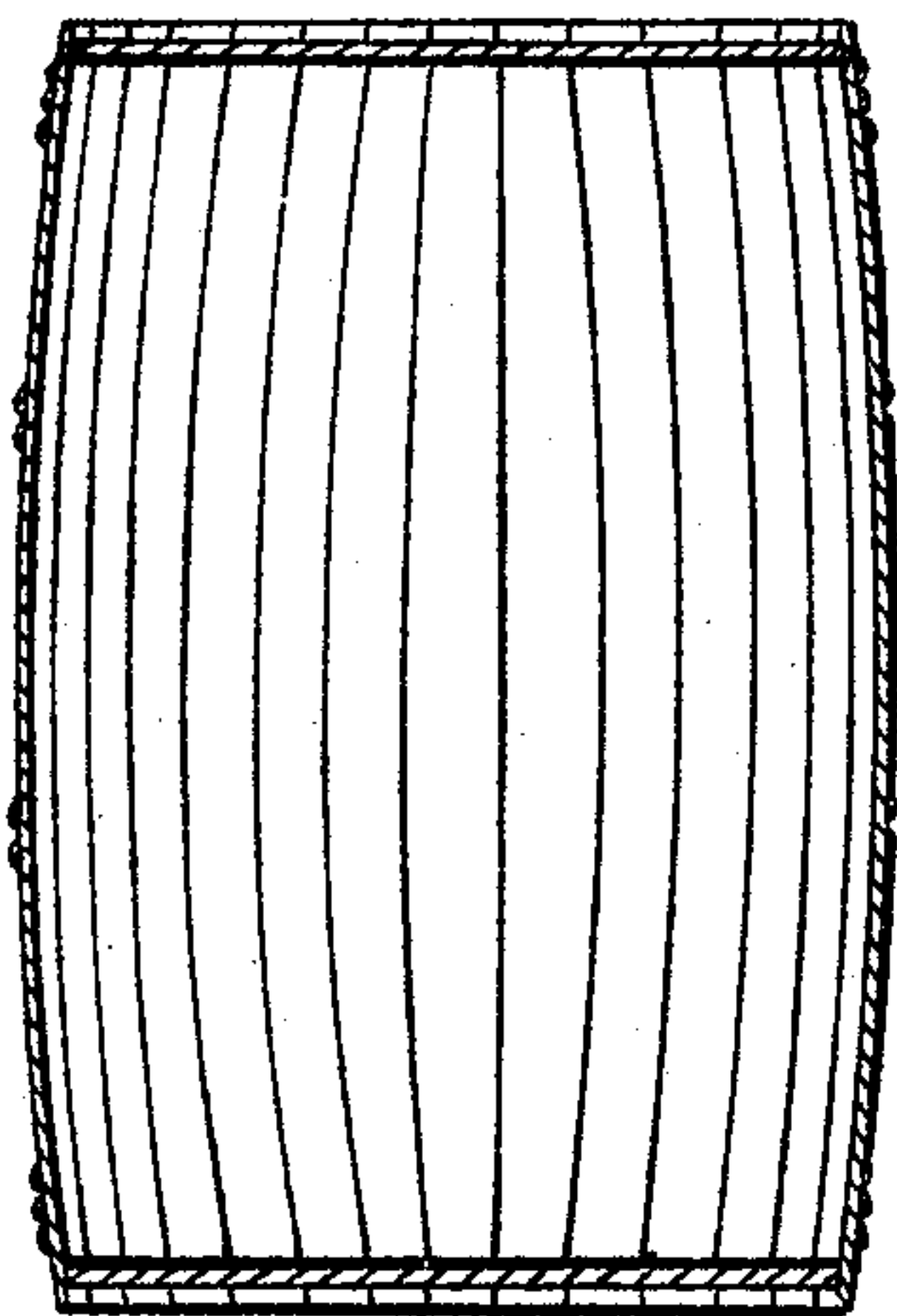


G. E. Vanderburgh,
Oil-Proof Cask,
No 34,707, Patented Mar. 18, 1862.



Witnesses.

E. A. C. Smith.

Edw. J. Underwood

Inventor.

Geo. E. Vanderburgh

By his Atty J. C. Robbins

UNITED STATES PATENT OFFICE.

GEORGE E. VAN DERBURGH, OF MAMARONECK, NEW YORK.

IMPROVED OIL-PROOF CASK.

Specification forming part of Letters Patent No. **34,707**, dated March 18, 1862.

To all whom it may concern:

Be it known that I, GEORGE E. VAN DERBURGH, of Mamaroneck, in the county of Westchester and State of New York, have invented an improved article of manufacture in the shape of a cask, barrel, or firkin the interior surface of which, by the use of a liquid silicate, is rendered impervious to oil, turpentine, &c.; and I do hereby declare that the following is a full and exact description of the method of treatment by which I make the interior surfaces of wooden vessels impervious to the action of oil, turpentine, and some other descriptions of fluids.

I take a cask, barrel, keg, firkin, or other style of wooden vessel and first pour into the same a quantity of liquid silicate of such a temperature and consistency that it will penetrate into the pores of the wood, and immediately after pouring the liquid silicate into the said vessel I subject the same to such a character of movements as will bring the liquid silicate placed therein into repeated contact with every portion of the interior surface of the vessel; and after this has been done I place the said vessel in such a position as will allow the surplus liquid silicate contained therein to entirely drain out of the same. After this has been accomplished and the interior surface of the said vessel has become sufficiently

dry and hard, it may be advisable in some cases to pour a second charge of liquid silicate into the said vessel, and after subjecting the same to the requisite movements then to place the said vessel in a proper position for allowing the surplus liquid silicate to drain out of the same and its interior surface to become dry and hard. The said coating, draining, and drying processes may be repeated as many times as may be deemed advisable; but it is believed that in many cases a single coating process with a good quality of liquid silicate will be sufficient.

The accompanying drawing represents either a cask, a barrel, a keg, or a firkin, the interior surface of which has been rendered impervious to oil, turpentine, &c., by the use of a liquid silicate.

What I claim as my invention, and desire to secure by Letters Patent as a new article of manufacture, is—

A cask, a barrel, a keg, a firkin, or other style of vessel the inner surface of which has been rendered impervious to oil, turpentine, &c., by the single or repeated use of liquid silicate, substantially as herein set forth.

GEORGE E. VAN DERBURGH.

Witnesses:

RANDOLPH COYLE, Jr.,

DAVID A. BURR.