

UNITED STATES PATENT OFFICE.

WM. H. STONE, OF BROOKLYN, NEW YORK.

IMPROVED LINING FOR PETROLEUM-BARRELS.

Specification forming part of Letters Patent No. 47,581, dated May 2, 1865.

To all whom it may concern:

Be it known that I, WM. H. STONE, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Lining Petroleum-Packages; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same.

This invention consists in furnishing barrels or packages with a lining of pure wax produced by heating said barrels or packages to 180° or 200°, with a quantity of wax in them, so that the wood will absorb a quantity of wax and the surplus can be readily made to run off, leaving the inner pores of the wood saturated with the wax.

The leakage of barrels or packages generally used for carrying petroleum is a source of great loss, and it is occasioned particularly by the shrinkage of the wood, as the moisture originally contained in its pores evaporates. Furthermore, as soon as all or the greatest portion of the moisture has disappeared from the pores of the wood the petroleum passes clear through the wood, and a barrel of this kind occasions much trouble. In order to render the barrel safe against such loss, and absolutely oil-tight, it is necessary to expel the moisture from the pores of the wood and charge the same with some other material which is not liable to evaporate or disappear,

and which will effectually check the passage of petroleum through the wood. This purpose is effected by my process. In heating the wood to 180° or 200° the moisture contained in the pores is expelled and the wood is prepared for the reception of the wax. The wax, on being introduced into the heated barrel or package, melts immediately, or it may be previously melted, and on giving to the barrel or package a proper rolling and oscillating motion the fluid wax is made to flow over every portion of the inner surface of the same, and all the pores of the wood are filled with wax.

This method of rendering barrels or other packages impervious to petroleum or other similar liquids is very simple, cheap, and effective, and barrels or packages prepared according to my invention are capable to hold petroleum or other liquids for a very long time without leakage.

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

The within-described process of rendering barrels or other packages impervious to petroleum or other similar liquids by treating them in the manner substantially as herein set forth.

WM. H. STONE.

Witnesses:

M. M. LIVINGSTON,
C. L. TOPLIFF.