

UNITED STATES PATENT OFFICE.

EDWARD W. LEGGETT, OF NEW YORK, N. Y.

IMPROVEMENT IN PROCESSES OF LINING OIL-BARRELS WITH GLUE.

Specification forming part of Letters Patent No. **143,770**, dated October 21, 1873; application filed September 29, 1873.

To all whom it may concern:

Be it known that I, EDWARD WRIGHT LEGGETT, of the city, county, and State of New York, have invented an Improved Process of Coating or Lining the Inside of Barrels, Casks, &c., for the purpose of rendering the same impervious to water, oil, or any contained substance, of which the following is a specification:

This invention relates to that class of processes employed for the coating or lining of the insides of barrels for the above-mentioned purpose; and consists in preparing from any suitable glutinous substance glue, said glue being permitted to attain but a certain consistency, and then applied directly as a coating or lining.

In carrying out my invention, I proceed as follows: Take any of the materials from which glue may be made, and proceed in the usual or any suitable manner for the manufacture of glue until the soup has attained a certain consistency. This consistency must be considerably less than that which is required wherein semi-fluid, solid, or cake glue is to be produced, and while it is in this half-finished state, so to speak, it is applied directly to the inside of the barrel or cask, where, after due evaporation, it will be found that said cask or barrel is lined thoroughly and completely with glue, inasmuch as a pressure of steam generated by the heat applied is sufficient to force the thin glutinous fluid well into the pores and recesses of the wood, thus insuring a perfect lining.

I am aware that barrels, &c., have been lined or coated with glue when said glue has been subjected to a process of reduction by dilution from its original consistency to a sufficiently liquid state; but I am not aware of any process wherein the glutinous material has been permitted to attain only its proper consistency and then applied directly, thus saving the time, labor, and expense heretofore

employed by continuing the manufacture of the glutinous soup until it has attained a semi-fluid or gelatinous consistency, thus necessitating a reduction by dilution and reheating before it is fit for application, as set forth in this specification, traveling over, as it were, the same ground backward and forward two or three times, whereas, by my process, this trouble is entirely dispensed with by operating as within described.

This invention has nothing to do with the glue-lined barrel as an article of manufacture, but relates particularly to a new and inexpensive process of constructing a glue-lined barrel, cask, &c.

Heretofore the glue has been taken in its complete state as an article of manufacture, has been reheated, diluted, and then applied; but such a process necessarily carries with it all the expense of preparing the glue at first as an article of trade or commerce.

My process contemplates taking the glue when at a proper consistency, and applying it to the inside of the package, permitting it to harden for the first time upon that surface.

I claim as my invention—

The within-described process of coating or lining the inside of barrels, casks, &c., with glue, wherein the glutinous material, instead of being produced by reduction from a previously solid state, is permitted to attain only a certain liquid consistency, and is then applied to the package and permitted to harden thereon for the first time, substantially as herein set forth and described.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of September, 1873.

EDWARD W. LEGGETT.

Witnesses:

LEVERETT L. LEGGETT,
EDM. F. BROWN.