

# UNITED STATES PATENT OFFICE.

GUSTAVUS A. WILL, OF ST. LOUIS, MISSOURI.

## COMPOSITION FOR LINING PAINT-CASKS.

SPECIFICATION forming part of Letters Patent No. 676,550, dated June 18, 1901.

Application filed September 13, 1900. Serial No. 29,887. (No specimens.)

*To all whom it may concern:*

Be it known that I, GUSTAVUS A. WILL, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Composition for Rendering Packages Impervious to Oils, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful improvement in a composition for rendering packages impervious to oils, the object being to provide a mixture of certain ingredients, hereinafter set forth, for use in painting or coating the inner surface of barrels or packages of any description which will render said packages impervious to oils or oily materials which may form their contents.

The invention is designed particularly for coating the inside surfaces of barrels in which white lead is packed, and by the use of my invention I am enabled to paint the inner surfaces of barrels made of wood so that the wood will not absorb oil from the contents of the package. White lead, being ground in oil, is usually packed in oaken kegs, and when stored away for any period of time the oil of the contents of the keg will be absorbed by the wood, and thus the contents become dry. Glue and shellac as a coating have been employed to coat the inner surfaces of these kegs; but these ingredients have proven unsatisfactory, because they are liable to dissolve and in dissolving the oil is absorbed by the wood.

By the use of my invention it is not necessary to use expensive woods in the manufacture of packages, as the composition forming the coating on the inner surfaces of packages absolutely prevents the oily contents from being absorbed by the wood or other material of which the package might be composed.

With these objects in view my invention consists in the composition for rendering packages impervious to oils, said composition containing the ingredients hereinafter described or their equivalents and in about the proportions stated.

The following formula has been found to give satisfaction with respect to preventing the absorption by packages of the oil contained in white lead: I dissolve eight pounds of glue in water in the usual or any preferred manner. This mixture is heated, when the hereinafter-mentioned ingredients are added. (If the glue-water has been allowed to cool, it must be heated before the succeeding steps of the process take place, and whether the glue-water is used when just made or allowed to cool and is then heated again is not necessarily material.) To fifty pounds of glucose I add two pounds of turpentine. These two ingredients being stirred well together, this mixture of glucose and turpentine is added to the heated glue-water, stirring the same well while the glucose and turpentine are added. I now take sixty pounds of some filler, preferably carbonate of lead or other suitable carbonate, such as carbonate of lime, which is cheaper than carbonate of lead, to which is added fifteen pounds of oxid of zinc, the two being heated and stirred well together until the mass appears without lumps. This mass is mixed with the heated glue-water, glucose, and turpentine, the resultant product being a sizing having the desired characteristics.

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

1. The herein-described composition for rendering materials impervious to oils, comprising glue, glucose, turpentine, oxid of zinc, and an inert base, substantially as described.

2. The herein-described composition for rendering materials impervious to oils, comprising the following substances in substantially the proportions named, to wit: five gallons of water, eight pounds of glue, fifty pounds of glucose, two pounds of turpentine, sixty pounds of an inert base, and fifteen pounds of oxid of zinc.

3. The herein-described composition for rendering materials impervious to oils, comprising the following substances in substantially the proportions named, to wit: five gallons of water, eight pounds of glue, fifty

pounds of glucose, two pounds of turpentine, sixty pounds of carbonate of lime, and fifteen pounds of oxid of zinc.

4. The herein-described composition for  
5 rendering materials impervious to oils, comprising glue, glucose, turpentine, oxid of zinc and carbonate of lime, substantially as described.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, to this 11th day of September, 1900.

GUSTAVUS A. WILL.

Witnesses:

WM. H. SCOTT,  
H. L. AMER.