

# UNITED STATES PATENT OFFICE.

HENRY LOEWENBERG, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND  
EMILE GRANIER, OF PARIS, FRANCE.

## IMPROVED COMPOSITION FOR LINING OIL-BARRELS.

Specification forming part of Letters Patent No. **47,496**, dated April 25, 1865.

*To all whom it may concern:*

Be it known that I, HENRY LOEWENBERG, of the city, county, and State of New York, have invented a new and Improved Compound for Coating or Lining Articles of Wood, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same.

This invention consists in the use of a compound of glues or gelatinous substances combined with acids and sirups, or analogous substances, for the purpose of coating articles of wood or other materials, or for lining boxes, barrels, &c., or for saturating cloth or other textile fabrics, and thereby preventing the penetration of liquids, such as benzine, turpentine, oils, and fatty and volatile fluids or substances of any description. By adding coloring-matters, either in a liquid or pulverized form, to said composition a compound is produced which can be used with advantage for the purpose of coating flexible articles—such, for instance, which may be in some cases used in place of india-rubber goods. The proportion in which I mix the above-named materials together is variable, and depends upon the nature of the materials used in the composition, and of the articles to which the compound is to be applied.

The acid which I use by preference is acetic

acid or vinegar, though I do not wish to restrict myself to this particular acid.

A good compound is produced by using the ingredients in the following proportion: glue or gelatinous matter, one pound; acetic acid (diluted in water) of sufficient quantity to cover the glue, and after the glue is dissolved add sirup, five ounces.

This composition may be applied as a varnish to wood-work, stones, or other articles to render the same proof against the influence of moisture or of the atmosphere; or it may also be used as a lining for boxes or barrels, particularly for petroleum-barrels.

By the admixture of sirup the composition is rendered tough and prevented from becoming hard and brittle, and it is not liable to scale off or to crack. It can be produced at a small expense, and its application to petroleum-barrels alone will produce an immense saving in oil which is now lost by leakage.

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

The use of a compound of the ingredients herein described—viz., of glue, acid, and sirup—and mixed together substantially in the manner and about in the proportion set forth.

HENRY LOEWENBERG.

Witnesses:

JAS. P. HALL,  
THEO. TUSCH.