

A. VAN BIBBER.
Barrel-Lining Composition.

No. 204,515.

Patented June 4, 1878.

Fig. 1

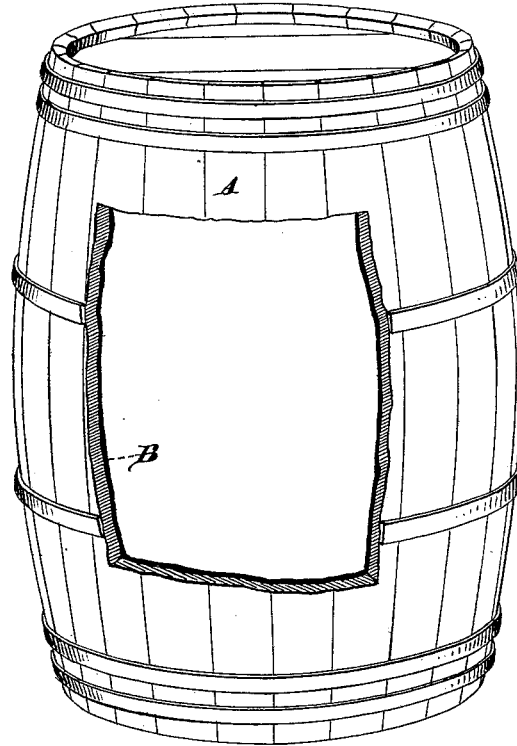


Fig. 2

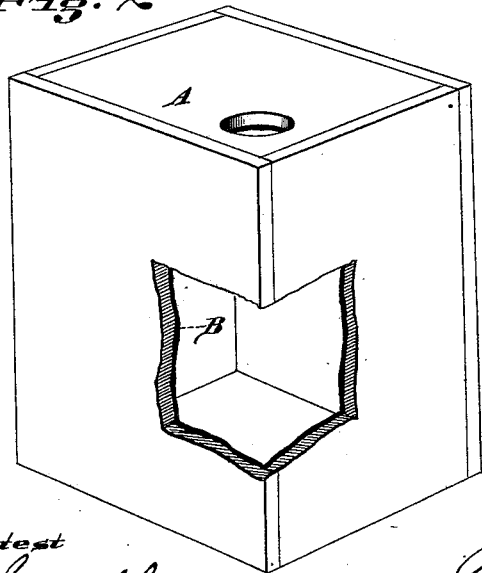
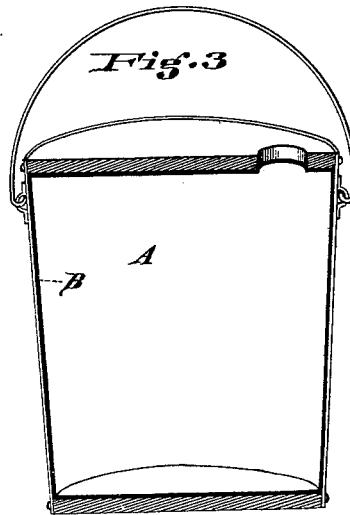


Fig. 3



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ANDREW VAN BIBBER, OF CINCINNATI, OHIO.

IMPROVEMENT IN BARREL-LINING COMPOSITIONS.

Specification forming part of Letters Patent No. **204,515**, dated June 4, 1878; application filed April 30, 1877.

To all whom it may concern:

Be it known that I, ANDREW VAN BIBBER, of Cincinnati, Hamilton county, State of Ohio, have invented an Improvement in Packages for Oils and Paints, of which the following is a specification:

Barrels for carrying coal-oil and similar substances have customarily been lined with common glue to prevent the seeping of the oil through the vessel, and glue is well adapted to permanently prevent leakage in transportation under careful handling; but it has been found in the use of common glue that shocks, to which the barrel or package is generally subjected in transportation, will effect very frequently the cracking of the lining of glue, so that serious losses occur from the escape of the oil at these fractures in the lining, thereby also causing danger of fire. It has also been proposed to line such barrels with a compound of glue, glycerine, and sugar, which is permanently flexible, and overcomes the objection to the use of glue alone; but this compound of glue, glycerine, and sugar is subject to the serious objections that it readily melts and remelts indefinitely, and that it is soluble in water, so that barrels lined therewith cannot safely be exposed to the rays of the sun, or to the heat of summer, or to the action of water.

The object of my invention is to line barrels and other packages for oils and paints with a permanently-flexible lining not subject to dangerous injury by heat or water; and to this end my invention consists in lining such packages with a compound of glue, glycerine, and molasses.

By actual experiment I have found that while this compound, when green or freshly made, will readily melt, which is necessary to make its application to packages practicable, it very soon changes its nature in this respect on curing, and becomes non-meltable, and also insoluble in hot water, but retains to the full extent its permanent flexibility.

In the accompanying drawings, Figure 1 exhibits an ordinary coal-oil barrel lined in the manner I propose. Fig. 2 exhibits a case for transporting paints, which, when lined, as shown, with my prepared glue, answers the

purpose of a tin-lined case. Fig. 3 illustrates a package or bucket made with paper or veneer sides and thick wooden heads, the whole being lined in the manner I propose with prepared glue.

This construction of package having sides easily indented, not at all adapted for use with a lining of the common glue, is rendered perfectly safe for transporting oleaginous substances when lined with my flexible glue.

In the several drawings, A is the package, and B the lining, which I make of glue, glycerine, and molasses. I have successfully used this lining made of said three ingredients in the following proportions: Glue, four ounces; glycerine, two ounces; molasses, two ounces.

These proportions may be varied considerably, according as a harder or a softer lining is wanted. Such variations of proportions will not change the essential nature of the lining so long as it is not made so hard as to be liable to crack, nor so soft as to run. The mixing the glue in a melted state with glycerine and molasses makes a non-freezing and permanently-flexible compound, and the presence of the molasses causes it to change on curing from a meltable to a non-meltable compound.

Being aware that a glue, glycerine, and molasses compound has heretofore been used for printers' inking-rollers, I make no claim for such a compound, but confine my claim of invention to the application of such compound as a lining for packages for coal-oil, &c., where it subserves uses to which it has not heretofore been put.

What I claim as my invention, and desire to secure by Letters Patent, is—

A barrel, box, or other package for naphthas, oils, paints, or other oleaginous substances, provided with a lining of the herein-described glue, glycerine, and molasses compound, substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

ANDREW VAN BIBBER.

Witnesses:

JOHN E. JONES,
J. L. WARTMANN.