

UNITED STATES PATENT OFFICE.

WILLIAM PAINTER, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE CROWN
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COMPOSITION OF MATTER.

SPECIFICATION forming part of Letters Patent No. 684,521, dated October 15, 1901.

Application filed January 11, 1899. Renewed March 21, 1901. Serial No. 52,245. (No specimens)

To all whom it may concern:

Be it known that I, WILLIAM PAINTER, a citizen of the United States, residing at Baltimore, Maryland, have invented certain new and useful Improvements in Compositions of Matter, of which the following is a specification.

It is the object of this invention to produce a compound consisting, first, of a compound-binder made up of gelatin or glue dissolved in a minimum quantity of water under the influence of a moderate heat, and, second, an insoluble, waxy, resinous, oily, or pitchy substance which when compounded with the soluble gelatin will produce in the product sufficient insolubility to serve for many purposes when first thoroughly incorporated with a body material and then subjected to heat. In some cases I add a small proportion of glycerin. In the above manner I find that the soluble qualities of gelatin or glue are measurably overcome, so as to render the use of the product where brought in contact with watery liquids without other effect than to soften it, particularly when warmed. For some purposes this quality of softening when warmed or heated becomes a valuable one. I find that I can regulate the amount of the softening action of heat upon the product by varying the proportions of the ingredients.

In compounding the final product I do not confine myself to any order or proportion, as both these may be varied to suit the character of the product required. As an example of the compound with and without glycerin as one of the constituents, first I take one pound of glycerin, three pounds of ester-gum, and one pound of vaseline and incorporate these under a gentle heat with about five pounds of glue or gelatin, previously softened or dissolved in water. I then incorporate therewith about three pounds of granulated or pulverized cork and subject the whole to

heat at about 200° to 250° Fahrenheit for about five hours. Upon removal from the oven when cold it is ready for use for many purposes.

In a second example I follow the same proportions and processes, omitting the glycerin, the purpose subserved by the glycerin when used being through its great affinity for moisture to keep the product from becoming hard and incompressible. The glycerin is omitted from the compound when the product is required to be hard and unyielding.

It will be understood that I do not use the words "glue" or "gelatin" in an alternative sense, but as describing two qualities of the same material.

I do not confine myself to the use of granulated or pulverized cork as a body material, as many other pulverulent or granular matters may be used for varying purposes.

The ester-gum is made from common rosin and differs therefrom in being practically insoluble in alcoholic liquids and without odor or flavor. This makes its use particularly desirable in connection or contact with potable liquids and especially those containing alcohol.

What I claim is—

1. A compound consisting of glue or gelatin, a non-drying, insoluble material comprising ester-gum and vaseline and a granulated or pulverized body material.

2. The method herein described consisting in incorporating ester-gum and vaseline, with glue or gelatin by the action of heat, mixing therewith a body material and finally subjecting the material to heat, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM PAINTER.

Witnesses:

JOHN T. HAWKINS,
W. H. WHEELER.