

UNITED STATES PATENT OFFICE.

WILLIAM PAINTER, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE CROWN
CORK AND SEAL COMPANY, OF BALTIMORE, MARYLAND.

COMPOSITION OF MATTER.

SPECIFICATION forming part of Letters Patent No. 684,524, dated October 15, 1901.

Application filed February 27, 1899. Renewed March 21, 1901. Serial No. 52,248. (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 in solubility to serve for many purposes when first thoroughly incorporated with a body material and then subjected to heat, a small portion of glycerin being added to keep the product from becoming hard and unyielding.

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, 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. The purpose subserved by the glycerin is, through its great affinity for moisture, to keep the product from becoming hard and incompressible.

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.

What I claim is—

1. A compound consisting of glue or gelatin, a non-drying, insoluble material, a granulated or pulverized body material, and glycerin, substantially as described.

2. The method herein described consisting in incorporating glycerin, a non-drying, insoluble material such as 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.