

UNITED STATES PATENT OFFICE.

WILLIAM E. DEMPSTER, OF BRUNSWICK, GEORGIA, ASSIGNOR OF ONE-HALF TO C. P. GOODYEAR, SR., AND C. P. GOODYEAR, JR., OF BRUNSWICK, GEORGIA.

PAINT-OIL.

SPECIFICATION forming part of Letters Patent No. 706,907, dated August 12, 1902.

Application filed February 6, 1902. Serial No. 92,896. (No specimens.)

To all whom it may concern:

Be it known that I, WILLIAM E. DEMPSTER, of Brunswick, in the county of Glynn and State of Georgia, have invented certain new and useful Improvements in Paint-Oils; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved composition for and method of making paint-oil or paint vehicle.

As is well known, pine-rosin is the principal ingredient employed in this art. The rosin has heretofore been mixed with various other ingredients and heated or not, according to the nature of the other elements, as when combined with naphtha and asphaltum no heat is required, and when used with mineral oils, together with other constituent elements, it has been heated to the melting-point or heated during part of the process and cooled preparatory to the last step, which is generally the use of a grinding-mill, to incorporate the ingredients which the heat has caused to become separated from the other constituents. I have found that these methods of making the vehicle are attended with many inconveniences and that they have not fully developed the characteristics or properties residing in the rosin which render it under proper treatment best adapted to the making of paint-oil. In those processes which employ no heat, because of the presence of the naphtha, the resulting oil is of a volatile nature, which necessitates its being promptly bottled and kept air-tight, while the methods which simply heat the rosin and then add the mineral oils and other ingredients, resulting in a solid composition, not only require linseed or other oil to bring the product into condition for use, but they fail to change the character of the rosin, leaving it in about its former condition.

In carrying out my invention I preferably employ, because of its cheapness, what is known as "low-grade" rosin, being that obtained in the last run from the trees, although the finer grades are susceptible of use. The rosin is ground or pulverized and mixed with kerosene—a distillate of crude petroleum. The proportions that I have thus far found conducive to the best results are four-fifths rosin and one-fifth kerosene. This mixture is then placed in open kettles or pans in the open air and boiled by any suitable means. The deleterious and inflammable substances are thus eliminated. The oil may then be placed in barrels, casks, or cans and is ready to be mixed with any of the paint bases, being adapted to use with any color or shade of paint and requiring no oxid or other drying agent.

The distinctive feature of my invention is that the rosin and kerosene are so thoroughly blended as to change the character of each, producing an oil which is immutable as regards either of its elements in the original. Furthermore, it is non-volatile and will always remain in liquid form.

I claim as my invention—

1. The herein-described paint vehicle composed of rosin and kerosene, in the proportions substantially as specified.

2. The herein-described process of making paint-oil consisting in mixing rosin and kerosene, and then boiling the mixture.

3. The herein-described process of making paint-oil consisting in mixing rosin with kerosene, and boiling the mixture in the open air.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM E. DEMPSTER.

Witnesses:

C. C. COSBY,

J. A. MONTGOMERY.