

UNITED STATES PATENT OFFICE.

CHARLES HENRY VAUGHN, OF UNION, MITCHELL COUNTY, IOWA.

PAINT FOR TIN, IRON, WOOD-WORK, &c.

SPECIFICATION forming part of Letters Patent No. 466,812, dated January 12, 1892.

Application filed November 5, 1890. Serial No. 370,420. (No specimens.)

To all whom it may concern:

Be it known that I, CHARLES HENRY VAUGHN, a citizen of the United States, residing in the township of Union, in the county of Mitchell and State of Iowa, have invented a new and useful Composition of Matter to be Used as a Paint for Tin, Iron, Wood-Work, &c., of which the following is a specification.

The object of my invention is to provide a durable and efficient paint which will not crack, chip, or blister, which can be readily prepared at a small cost by simply mixing and agitating the ingredients, and which may be placed upon the market for subsequent use without rendering it necessary to reprepare or heat the same before using, as is usually the case with ready-made paints.

It has heretofore been proposed to provide a composition of matter comprising some of the ingredients which I use in different proportions, and it has also been proposed to provide a composition consisting of coal-tar, cement, rosin, benzine, and litharge; but such composition is expensive in the manufacture and unreliable in use, for the reason that it has been necessary to heat the same in the preparation thereof, and to reheat it before spreading, thereby injuring the lasting qualities of the paint and increasing the expense of both preparation and use, and also making it difficult to apply such paint except in warm weather. Moreover, the large quantity of dry cement and benzine used together with the heating of the paint makes it dry out quickly after it is spread, so that it will crumble, scale, and crack and will rub and wash off. Furthermore, the use of large quantities of cement and benzine in such a composition, together with the heating, renders the same injurious when applied to wood surfaces, and it is short-lived when applied to tin and iron surfaces. To overcome such objections, which are applicable to ready-made paints generally to a greater or less extent, I have invented a composition which consists of the following ingredients, combined in the proportions stated—viz: coal-tar, fifty gallons; gasoline, two gallons; rosin, seven pounds; litharge, five pounds; pure linseed-oil, two and five-tenths or two and one-half gallons. These ingredients are to be thoroughly mingled by simple agitation. The gasoline is first poured into the coal-tar and this mixture

is agitated until the gasoline has fully cut the tar into thin oil, which will take but a few minutes. The rosin is then added to the mixture and it is thoroughly stirred, after which the litharge is added and the compound again thoroughly stirred. Finally, pure linseed-oil is added to the other ingredients, and the compound is stirred so as to thoroughly mingle the same. This being done, the composition is ready for use, and the paint may be put in cans or barrels and placed upon the market for subsequent use, and thereafter it will not require any heating or other preparation before using, but is at all times ready for immediate use.

The coal-tar constitutes the body of the paint, while the gasoline is used for cutting the tar and is not only much better than benzine for that purpose, but a less quantity of gasoline than benzine will be required. The gasoline has also the advantage of rendering the paint less dry on account of the small quantity used. The rosin toughens the other ingredients and gives body and firmness to the paint. It also gives gloss and durability. The litharge is used for drying purposes, as usual. The linseed-oil serves to render the paint always ready for immediate application, without the necessity of heating or any other preparation, after it has been prepared for a considerable time, and also gives gloss to the paint.

Some of the advantages of my composition are, first, it can be prepared and used at any time without any heating process and by simple agitation; second, it does not crack, chip, or blister; third, it does not dry out so as to rub or wash off; fourth, it is ready for immediate use at any time after preparation; fifth, it is long-lived, remaining unchanged by exposure to the elements for a very long time, and that regardless of the character of the surface to which it is applied.

What I claim, and desire to secure by Letters Patent of the United States, is—

The herein-described composition of matter to be used as a paint for tin, iron, wood-work, &c., consisting of coal-tar, gasoline, rosin, litharge, and linseed-oil, in the proportions specified, substantially as set forth.

CHARLES HENRY VAUGHN.

Witnesses:

W. L. EATON,
E. S. FONDA.