UNITED STATES PATENT OFFICE.

DUMITRU ALBU, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF TO JOHN O. POPE, OF DETROIT, MICHIGAN.

RUST-PREVENTING COMPOSITION.

1,185,361. Specification of Letters Patent. Patented May 30, 1916.

No Drawing. Application filed July 25, 1914. Serial No. 853,161.

To all whom it may concern:

Be it known that I, DUMITRU ALBU, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Rust-Preventing Compositions, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

The subject of the present invention is a composition of matter for preventing rust in metal. This composition when dissolved in water, is adapted to receive metal pieces and prevent the same from becoming rusted even after long periods, and it also has other uses, serving when dissolved in water and brushed over a metal surface, to so affect the same that it is not liable to rust in the air even when the solution has evaporated from the surface of the metal.

To the accomplishment of the foregoing and related ends, said invention, then, consists of the ingredients hereinafter fully described and particularly pointed out in the claims.

The following description sets forth in detail certain ingredients constituting the composition embodying the invention, such combined ingredients constituting, however, but one of various forms in which the principle of the invention may be used.

My improved composition consists of borax of a formula $NA_2B_4O_7.10H_2O$, with which is mixed a comparatively small quantity of benzaldehyde of the formula C_7H_6O. The formula of the benzaldehyde is sometimes written C_6H_5CHO. The precise proportion in which these ingredients are used is not of prime importance, but preferably I use 15 ounces of borax to $\frac{1}{8}$ of 1 ounce of benzaldehyde, these proportions giving a mixture which entirely prevents rust when added for example to the water which contacts metal surfaces.

The uses of the composition are numerous and this composition may be, if desired, suitably mixed up with paints, when it serves the same purpose as when used alone: namely, to prevent rust on metal surfaces to which the paint is applied.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the process herein disclosed, provided the step or steps stated by any one of the following claims or the equivalent of such stated step or steps be employed.

I therefore particularly point out and distinctly claim as my invention:—

1. A rust preventing composition comprising borax and less than one per cent. of benzaldehyde.

2. A rust preventing composition consisting of 15 parts by weight of borax and one eighth of one part of benzaldehyde.

Signed by me, this 29th day of June, 1914.

DUMITRU ALBU.

Attested by—
H. B. FAY,
MARY GLADWELL.