

# United States Patent Office.

EDWARD HENRY NEILL, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO  
HIMSELF AND EMLÉN PAINTER, OF SAME PLACE.

Letters Patent No. 114,464, dated May 2, 1871.

## IMPROVEMENT IN WASHING-FLUIDS.

The Schedule referred to in these Letters Patent and making part of the same.

I, EDWARD HENRY NEILL, of the city and county of San Francisco, State of California, have invented a certain Compound to be used to facilitate the process of Washing Clothes and such other purposes as are named hereinafter.

The nature of the invention consists in mixing together one part of spirits of turpentine and two parts of ammonia, (liq. ammonia, concent.)

To prepare the mixture, the two ingredients should be churned together in some convenient churning apparatus until the parts are so thoroughly mixed as that they will not again separate entirely, but be held together in partial solution, so that at any time a slight shaking together will sufficiently combine them for the purpose.

I have found the two ingredients named, mixed as specified, sufficient for the practical uses of the compound; but by the addition of, say, a little olive-oil or other equivalent substance, a more elegant mixture may be made, by reason of the parts being held in better solution; however, I do not recommend this addition to produce a better effect in washing.

The spirits of turpentine I have found best adapted for the purpose, but any other carbhydrogen will produce the same effect in the mixture, the reason for adopting the turpentine being that no disagreeable odor or "bad color" is imparted to the clothes after using it.

The action of the compound in a measure depends upon its mode of application, which should be substantially as follows, when used in washing clothes, &c.:

Take about one-half pound of common household-soap, cut into thin slices, pour upon it about two quarts of boiling water, to which, when dissolved, add six gallons of lukewarm water. To this add about two ounces of the mixture, well shaken together, and in the solution thus formed let the clothes to be washed remain immersed for three or four hours, care being taken that the rising vapors are not permitted to escape. Afterward proceed with the usual process of rinsing, wringing, and drying.

The compound is also useful for removing grease-spots, paint, and other stains from textile substances, and when used for this purpose may be applied without being diluted, the stained parts being rubbed with a sponge charged with a small quantity of the fluid until the stains disappear.

The compound can also be used in cleaning all painted surfaces, &c. When put to this service it should be mixed with warm water in proportion of about a table-spoonful of the compound to a pail full of water.

I claim as my invention—

The manufacture or preparation of the compound herein described, consisting of two parts of ammonia and one part of spirits of turpentine, as and for the purposes set forth.

EDWARD HENRY NEILL.

Witnesses:

GEORGE PARDY,  
GEORGE BROWNE.