

UNITED STATES PATENT OFFICE.

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COMPOSITION OF MATTER USED AS A DETERGENT.

SPECIFICATION forming part of Letters Patent No. 780,094, dated January 17, 1905.

Application filed January 21, 1904. Serial No. 189,975.

To all whom it may concern:

Be it known that I, WILLIAM FORGER, a citizen of the United States, and a resident of New York, county of New York, and State of New York, have invented a certain new and useful Composition of Matter Which is Used as a Detergent, of which the following is a specification.

This invention relates to that class of compositions of matter which are used as detergents, and particularly to that class of detergents which are used for cleaning leather goods, such as white kid gloves and similar articles.

My composition consists of the following ingredients, combined in the proportions stated, viz: benzin, twenty gallons; chlorid of calcium, (CaCl_2), three pounds. When the chlorid of calcium is added to the benzin, the fluid is ready for use; but before subjecting the gloves to the action of my compound it is necessary to prepare them. This I do as follows: First, the gloves are manipulated twice in a fluid composed of ninety-nine per cent. of benzin, one-half of one per cent. each of oleic acid and of ammonia; second, they are manipulated in a bath composed of three gallons of benzin, one gallon of oleic acid, and one gallon of wood-alcohol. When these preparations have been made, the gloves will be ready for treatment in my composition.

The chlorid of calcium does not combine with the benzin chemically, but does mechanically, and when allowed to rest gradually subsides to the bottom of the containing vessel. The vessel must be such that when the gloves are put in they will not fall upon the top of this deposit. In order, then, to utilize the fluid successfully and cause it to act on every part of the gloves, it is necessary that the benzin, with the chlorid of calcium and the gloves in it, shall be agitated for one-half of an hour; but the containing vessel should be of such construction that while the benzin from off the chlorid of calcium passes freely through

all parts of the gloves it cannot bring the solid parts thereof into contact with the gloves. It will then be found that as the treatment of the gloves in the first two named fluids has removed all grease and dirt, so the last-named fluid has removed all the moisture and other residuum of perspiration which were not removed by the first fluids and made the gloves a beautiful white and that when the benzin of the last bath has been evaporated the gloves will be clean, soft, pliable, and elastic, not having been in the least shrunk by the action of the compound.

It is evident that this compound may be successfully applied to the cleaning not only of white kid gloves, but also to the cleaning of any similar leather article of such size as can be manipulated in the baths.

I am aware that benzin has heretofore been used alone and as an ingredient in divers compounds for cleaning purposes; but I am not aware that it has heretofore been used as an ingredient in a cleaning compound composed of benzin and chlorid of calcium, (CaCl_2).

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is--

1. The herein-described composition of matter consisting of benzin and chlorid of calcium, substantially as and for the purpose specified.

2. The herein-described composition of matter for cleaning articles composed of leather, consisting of the following ingredients, in the following relative proportions, viz., of benzin twenty gallons, and chlorid of calcium, three pounds, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 14th day of January, 1904.

WILLIAM FORGER.

Witnesses:

O. D. TRUSSELL,
B. PATTERSON.