UNITED STATES PATENT OFFICE.

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DETERGENT.

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To all whom it may concern:

Be it known that I, ROWLAND HUBBARD, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Detergents, of which the following is a specification.

The principal object of the present invention is to provide a comparatively inexpensive liquid cleaner or detergent, especially adapted for cleaning paint, varnish and woodwork as they occur, for example, in railroad cars, trolley cars and the like, and which will do its work of cleaning rapidly and thoroughly and without detriment to the objects being cleaned or discomfort to the hands of the user.

My detergent or cleaner consists, substantially by weight, of water 83.5%, neutral oil, 8.0%, powdered pumice 5.5%, and naphtha soap 3.0%. Neutral oil is the trade name of a Pennsylvania or paraffin base light oil usually used for machinery, and naphtha soap is the trade name of soap containing some naphtha or light oil and these terms are used descriptively. The compound is a homogeneous and creamy or flocculent liquid and the powdered pumice is suspended throughout its mass. In use the water is a vehicle, the soap acts as usual, and the oil emulsion and pumice remove dirt without scratching or marring, although the pumice has marked abrasive properties. The described ingredients in combination not only cause the pumice to remain in suspension uniformly diffused throughout the mass with its abrasive properties tempered with oil, but also cause the detergent to operate to clean efficiently and rapidly without scratching or marring.

In making the detergent or cleaner the soap is heated with water sufficient to dissolve it, and then more cold water is added. The oil is gradually added to the soap solution, stirring until the mixture is thoroughly emulsified. The powered pumice is then added, a little at a time or gradually, and meanwhile the admixture or mass is stirred until smooth and free from lumps. By the described process the oily powdered pumice is rendered substantially miscible in the soap solution and does not fall to the bottom but remains in suspension and diffused throughout the mass. The detergent is applied to a suitable cloth or rag which is used in the ordinary way.

What I claim is:

1. A liquid cleaner consisting of a creamy liquid admixture of naphtha soap, water, powdered pumice and neutral oil which serves to keep the powdered pumice suspended in the liquid mass, substantially as described.

2. A liquid cleaner consisting of a creamy liquid admixture of soap, water, powdered pumice and neutral oil which serves to keep the powdered pumice suspended in the liquid mass, substantially as described.

ROWLAND HUBBARD.