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METHOD OF CLEANSING.

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To all whom it may concern:

Be it known that I, ISRAEL POLLACK, a citizen of the United States, residing at Dorchester, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Methods of Cleansing, of which the following is a specification.

My invention relates to an improved composition of matter for cleaning and sterilizing purposes and the like, especially for the use on the hands although it has been found exceptionally good wherever a general detergent and sterilizing agent is needed.

Another object of the invention is to provide a composition of matter particularly adapted for cleansing of the hands wherein the removal of all grease, oil, ink, dyes, paint, etc., is facilitated without injury to the skin. I have found that even after prolonged and continuous use the skin remains unaffected, quite unlike other cleansers having an equal detergent power which, due to the sodium or potassium hydrate employed, cause the hands to become very soft and tender.

A further object of my invention is to provide such a composition which will completely destroy all bacteria, or micro-organisms and leave the cleaned surface sterile.

In preparing this composition, it has been found to be best adapted for the purposes above set forth when the ingredients are mixed in about the following proportions:

Mixture number 1.

	Parts.
Powdered soap-----	23
Sand or pumice-----	60
Potassium permanganate-----	2
Starch-----	5
Borax-----	10

Mixture number 2.

	Parts.
Powdered soap-----	40
Sand or pumice-----	37
Sodium sulphite-----	8
Starch-----	10
Borax-----	5

The soap when dissolved in an excess of water liberates a small amount of alkali to aid the oxidizing agents, permanganates or dichromates, as the case may be. I have found no difference in the effectiveness of my compound with either of the above, and

careful experiments have demonstrated that any oxidizing agent of this character is suitable for use in combination with the other ingredients as set forth above.

The same liberation and acceleration takes place in the use of mixture number two and I have likewise found that any reducing agent, as for example the sulfites, bisulfites, thiosulfates, etc., can be used with equally satisfactory results, and that varying mixtures of the same also function thoroughly in conjunction with the balance of my formula.

The starch acts as a lubricating vehicle and supports the sand or pumice to the extent that it does not immediately drop from the hands when submerged in water, but rather tends to cling sufficiently to permit rubbing.

The soap and borax also function as an ordinary detergent and it is this combination of an abrasive, held in suspension by starch, or other gummy or gelatinous substance, together with soap and borax all acting in unison with an oxidizing and reducing agent respectively, that I have found to have meritorious properties as a disinfectant and cleaner.

It is obvious that various soaps, detergents, abrasives, oxidizing agents, reducing agents, binders and fillers may be substituted and the proportions set forth above may be varied without departing from the spirit of the invention. It is also understood that the preparation of this cleanser is not limited to powder form as it has been found equally as effective when in paste or liquid form, and the addition of water to the formula does not destroy or weaken its properties on standing.

I have found the best method of application to be the use of a small amount of mixture number one together with water sufficient to moisten the hands. This is rubbed together thoroughly and rinsed off, thus leaving the hands stained slightly yellow. A second application of mixture number two in the same manner leaves the hands thoroughly clean and sterile. Either of the above mixtures may be used alone. The use is not limited, however, to the cleaning of hands, as utensils, instruments, woodwork, etc., can likewise be successfully cleaned with the compounds as set forth.

It has also been found the mixture number two is an excellent metal polish when

see serial 112 part 50

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