

# UNITED STATES PATENT OFFICE.

HARRY C. PEFFER, OF NEW KENSINGTON, PENNSYLVANIA.

## SOAP.

SPECIFICATION forming part of Letters Patent No. 704,364, dated July 8, 1902.

Application filed November 4, 1901. Serial No. 81,077. (No specimens.)

*To all whom it may concern:*

Be it known that I, HARRY C. PEFFER, of New Kensington, Westmoreland county, Pennsylvania, have invented a new and useful Soap, of which the following is a full, clear, and exact description.

My invention relates to soaps, and is designed to improve their cleansing quality and to provide a soap which is equally desirable for toilet purposes, for cleansing fabrics of grease, and for all other purposes. To that end the invention consists in a soap containing hydrated alumina, ( $\text{Al}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$ .) This hydrated alumina may be added to and mixed with the soap materials at any desired stage in the soap-making process, but preferably near the end thereof. The alumina forms, at least mainly, a mechanical mixture with the soap, its particles being disseminated throughout the mass of soap. My preferred proportion is about thirty per cent. of hydrated alumina, though this may be varied within wide limits.

The advantages of my invention flow from the new composition of matter resulting from mixing the hydrate of alumina, which is of high detergent power, with the soap.

The soap may be either in the form of powder or cakes and may be of any desired composition without departing from my invention, since I consider myself the first to mix hydrated alumina with soap.

I claim—

1. A soap containing hydrated alumina disseminated through it; substantially as described.

2. A soap cake having powdered hydrate of alumina disseminated through its mass; substantially as described.

In testimony whereof I have hereunto set my hand.

HARRY C. PEFFER.

Witnesses:

HARRY D. G. REYNOLDS,  
JNO. S. SHAW.