

# UNITED STATES PATENT OFFICE.

WILLIAM JOHNSON, OF NEW YORK, N. Y.

## IMPROVEMENT IN THE MANUFACTURE OF SOAP.

Specification forming part of Letters Patent No. 121,787, dated December 12, 1871.

*To all whom it may concern:*

Be it known that I, WILLIAM JOHNSON, of the city, county, and State of New York, have invented certain Improvements in the Manufacture of Soap; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same.

The object of this improvement is to produce an economical and easily-made soap suitable for all ordinary washing operations.

In the manufacture of my improved soap I take four hundred pounds of tallow and two hundred pounds of resin and boil them with a solution of caustic lye or potash. When sufficiently boiled I allow the mixture to cool down to the temperature of about 85° Fahrenheit. Then I add five gallons spirits of turpentine; eight pounds carbonate of potash; fifty pounds French chalk, or the same quantity of American talc. These substances are then to be thoroughly mixed or crutched in the boiled mixture. I next sift into

the mass ten pounds powdered sal-ammoniac. The mass, still warm, is then to be well mixed or crutched, so that the various ingredients may be thoroughly diffused and mixed together. This crutching operation should be carefully performed, and care should be taken that no greater heat be used at this time than 85° Fahrenheit, as the turpentine is very susceptible to evaporation, and some of the other ingredients will degenerate if a higher heat is used and injure the soap.

The soap thus made is allowed to cool in suitable receptacles and is then ready for use.

Having thus described my invention, I claim and desire to secure by Letters Patent—

As an improved article of manufacture, the soap made of the ingredients and in the manner herein described.

WILLIAM JOHNSON.

Witnesses:

GEO. W. MABEE,  
T. B. MOSHER.

(26)

*256 words*