

# United States Patent Office.

JOHN BRUCKER, OF CHICAGO, ILLINOIS.

*Letters Patent No. 61,995, dated February 12, 1867.*

## IMPROVED SOAP.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN BRUCKER, of the city of Chicago, in the county of Cook, and State of Illinois, have invented new and useful Improvements in the Manufacture of Soap; and I do hereby declare that the following is a full and exact description thereof.

The nature of my invention consists in the manufacturing soap in such a manner as to exclude salt from the process of separation of soap from the lye altogether, and have the soap to consist of the oleaginous substances and soda and potash lye in sufficient quantity to render the soap capable of foaming and washing, not only in soft water, but in sea water also.

To enable others skilled in the art to make and use my invention, I will proceed to describe its preparation and operation.

On 100 pounds of cocoa-nut oil, take 25 pounds of Provence or sweet oil, 13 pounds of tallow, and 10 pounds of rosin; melt all the ingredients together, and when melted add to them 50 pounds of soda-ash lye; boil well, and when nearly done add 10 pounds of potash lye; boil again until the soap is ready, and then discharge it into convenient frames.

To make the soda-ash lye, I take on a certain quantity of soda one-half of that quantity of lime in weight. To make the potash lye, I take on a certain quantity of potash one-fifth of lime in weight; cocoa-nut oil, 100 pounds; sweet oil, 25 pounds; tallow, 13 pounds; rosin, 10 pounds; soda-ash lye, 50 pounds; potash lye, 10 pounds.

From the above description it is evident that preparing my soap I do not use salt to separate the lye from the soap, but, on the contrary, I retain the lye in the soap, and as cocoa-nut oil and sweet oil absorb a great deal of lye, then when things are washed in salt sea water a portion of the lye contained in the soap goes in to neutralize different salts contained in that water, while there remains yet lye enough to make the soap foam and wash the things, a property which is not possessed by any other soap to me known.

What I claim as my invention, and desire to secure by Letters Patent, is—

The soap, consisting of the above-enumerated ingredients, and prepared substantially in the manner herein described and specified.

JOHN BRUCKER.

Witnesses:

J. B. TURCHIN,

JAS. R. HAYDEN.