

# UNITED STATES PATENT OFFICE.

NICHOLAS J. CLUTE, OF CHICAGO, ILLINOIS.

## PROCESS OF MAKING LAUNDRY-SOAP, &c.

SPECIFICATION forming part of Letters Patent No. 347,027, dated August 10, 1886.

Application filed December 2, 1885. Serial No. 184,456. (No specimens.)

*To all whom it may concern:*

Be it known that I, NICHOLAS J. CLUTE, of the city of Chicago, in the State of Illinois, have invented a new and useful Process in  
5 Making Laundry, Shaving, Toilet, and other Soaps, which process is fully set forth in the following specification.

This invention relates to that class of processes used for making different kinds of soaps; and it consists in the use of an entirely new ingredient in soap-making never before used or known. The new ingredient is the tank-water formed in the rendering of lard, tallow, or other fats, which water has heretofore had little or no commercial value. I have discovered  
15 that the water possesses in a high degree all the essential properties in making soaps when used in connection with other adipose or oleaginous substances usually used in soap-making or alone as a base to unite with the alkali. The usefulness of this discovery consists in utilizing as an article of commerce a heretofore comparatively worthless substance, in its cheapness, in the combining qualities which it  
20 possesses, rendering saponification complete in the mordant property of its inherent ammonia, which also renders it remarkably detergent. Said tank-water, when reduced by evaporation, is of a sirupy consistence, and  
25 holds in solution about twenty per cent. of solid matter, and of this solid matter about fifteen to twenty per cent. is nitrogenized substance, furnishing the ammonia. Said water has strong detergent properties when used  
35 alone, either with or without the use of alkali.

The following is about the proportion used for making soaps by my new process: One hundred pounds of tank-water, after it has been reduced by evaporation fifty per cent.,  
40 ninety pounds of tallow, and fifteen of resin, with an amount of caustic soda sufficient to render saponification complete. The detail of manufacturing and handling is the same as in any or all soaps.

I do not intend to confine myself to the use 45 of the tank-water in connection with tallow and caustic soda, as above stated, as it can be used with any other adipose or oleaginous substance and with any other alkali used for making soap. The resin can also be omitted when 50 it is desired to make white soap; nor do I want to confine myself to the exact proportions mentioned above, but claim the right to vary the proportions of the materials, as it is customary with soap-makers. Soap may be made 55 with the tank-water alone as a base in connection with an alkali or in connection with other oily substances in different proportions with an alkali; but I have given the preferable proportions for making cheaply a first-class soap 60 with the new material.

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

1. The making of soaps by the combination of the so-called "tank-water," or the water 65 formed in the rendering of lard, tallow, or other fats, with resin and an alkali, substantially as set forth.

2. The combination, in soap-making, of the so-called "tank-water," or the water formed 70 in the rendering of lard, tallow, or other fats, with resin, tallow, or other adipose or oleaginous substances usually used in making soaps, and an alkali, substantially as described.

3. In the making of soaps by the combination 75 of the so-called "tank-water," or the water formed in the rendering of lard, tallow, or other fats, with tallow or other oleaginous or adipose substances usually used in the making of soaps, and an alkali, substantially as described. 80

NICHOLAS J. CLUTE.

Witnesses:

GEO. E. LONG,  
F. A. COKER.

Correction in Letters Patent No. 347,027.

It is hereby certified that Letters Patent No. 347,027, granted August 10, 1886, upon the application of Nicholas J. Clute, of Chicago, Illinois, for an improvement in the "Process of Making Laundry Soap, &c.," was erroneously issued to said Clute; that the said Letters Patent should have been issued to said Clute and *James M. Aubery and Preston B. Rose*, said Aubery and Rose being assignees of two-thirds interest in said invention; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 31st day of August, A. D. 1886.

[SEAL.]

H. L. MULDROW,  
*Acting Secretary of the Interior.*

Countersigned:

R. B. VANCE,  
*Acting Commissioner of Patents.*