

UNITED STATES PATENT OFFICE.

PHILIP J. WEBER, OF BUFFALO, NEW YORK, ASSIGNOR OF ONE-HALF HIS
RIGHT TO DARIUS AURORA HOVEY, OF SAME PLACE.

IMPROVEMENT IN HARNESS-SOAPS.

Specification forming part of Letters Patent No. **176,105**, dated April 11, 1876; application filed
February 14, 1876.

To all whom it may concern:

Be it known that I, PHILIP JACOB WEBER, of Buffalo, in the county of Erie and State of New York, (assignor of one-half to DARIUS AURORA HOVEY, of same place,) have made Improvements in the Manufacture of Soap, of which the following is a specification:

This invention is more particularly intended for use in washing harness, carriage-tops, or leather in any shape, and is composed essentially as follows: For a batch of, say, nine hundred pounds, I first take one hundred and seventy-five pounds cotton-seed oil; second, one hundred and seventy-five pounds tallow; third, one hundred pounds cocoa-oil, (made from cocoa-nut;) fourth, four hundred and fifty pounds caustic soda-lye, at twenty-one grains strong. This makes the soap. Then I take five and a half pounds lamp-black, and five and a half pounds coach-black or black paint, which are mixed in with the other ingredients, the lamp-black and paint to be mixed with the soap, when the soap is thoroughly saponified, and then "crutched" till cool enough to hold a person's finger in the soap without burning.

The soap is compounded as follows: I first take the cotton-seed oil, then the tallow, the cocoa-oil, and caustic soda-lye, put them into a kettle or vat, and boil them until thoroughly saponified. Then the black paint and lamp-black, which are only used for coloring, and are first dissolved in water, are stirred into the other ingredients, until the whole is thoroughly mixed and colored.

The soap can be compounded or manufactured by any known or suitable process. I do not claim anything in the method of manufacturing, only in the combination and use of the ingredients in and for a harness-soap.

It is then cut up in cakes or bars, and set away until thoroughly dried. It is then ready for use.

The advantage of this soap is, that it will, in one operation, do what is usually accomplished by three operations in cleaning harness, &c.

The usual method of cleaning harness is, first wash with castile-soap; next to grease and oil it with a mixture of neat's-foot oil and lamp-black; then, finally, after it is dried, to sponge it off with castile-soap.

With my preparation or soap, I only fill a sponge thoroughly with it and apply it to the harness, and use a chamois-skin or woolen cloth to rub it off. This leaves the harness as smooth, and with as good a polish and finish, as when new, besides preserving the harness.

I claim—

A harness-soap consisting of cotton seed oil, tallow, cocoa-nut oil, caustic soda-lye, lamp-black, and coach-black or black paint, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

PHILIP J. WEBER.

Witnesses:

J. R. DRAKE,
D. A. HOVEY.