

# UNITED STATES PATENT OFFICE.

GEORGE HERRICK, OF KILBOURN CITY, WISCONSIN, ASSIGNOR OF ONE-HALF HIS RIGHT TO FRANK A. BLOOD AND HERBERSON CORNING, OF SAME PLACE.

## IMPROVEMENT IN PROCESSES FOR MANUFACTURING LEATHER.

Specification forming part of Letters Patent No. 165,731, dated July 20, 1875; application filed June 11, 1875.

*To all whom it may concern :*

Be it known that I, GEORGE HERRICK, of the village of Kilbourn City, in Columbia county and State of Wisconsin, have invented a new and Improved Process in the Manufacture of all kinds of Leather used in the manufacture of harness, boots, and shoes; and I do hereby declare that the following is a full and exact description thereof.

The nature of my invention consists in applying, in the manner hereinafter set forth, to the hides and skins from which the leather is to be manufactured, a solution invented by me, and which is hereinafter particularly described. By means of my invention I claim that leather of the kinds used in the manufacture of harness, boots, and shoes is manufactured in a much shorter time than by any other known process, and that leather of the kinds mentioned is produced that is superior in quality to any of such kind of leather now in use.

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

I make a solution by dissolving in water the eight following-named articles, to wit: Sulphate of potash, sulphate of soda, alum, sulphur, solar salt, common starch, tormentilla, or sept-foil, and Aleppo galls, combined with all, or with any one or more than one, of the four following-named articles, to wit: Extract of oak-bark, extract of hemlock-bark, japonica, and ground sumac. The eight articles first mentioned are all necessary ingredients of, and

must all be employed and combined in, the solution, while all, or any one or more than one, of the four articles last mentioned may be combined with the said first-mentioned eight in the solution; but at least one of them must be so combined in order to form the solution. The proportion in which the said eight articles first mentioned are combined with each other, and with one or more than one, or all, of the four articles last mentioned in the solution varies with the number and kind of the hides and skins that are to be manufactured into leather at one time. The solution, when prepared, is placed in a tub, vat, or any vessel capable of holding the same, and the hides and skins that are to be manufactured into leather, the hair having been previously removed therefrom by any of the processes used in tanning for that purpose, are put into the solution, and allowed to remain there with more or less of stirring until properly tanned.

I claim—

As an improvement in tanning compounds, the solution named, consisting of sulphate of potash, sulphate of soda, alum, sulphur, solar salt, common starch, tormentilla, or sept-foil, and Aleppo galls, combined with any one or more of the tanning extracts named.

GEORGE HERRICK.

Witnesses :

THOMAS B. COON,  
P. G. STROUD.