

United States Patent Office.

O. B. EVANS, OF BUFFALO, NEW YORK.

Letters Patent No. 65,190, dated May 28, 1867.

IMPROVEMENT IN TANNING.

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

TO WHOM IT MAY CONCERN:

Be it known that I, O. B. EVANS, of the city of Buffalo, and State of New York, have made new and useful improvements in the Process of Tanning Hides; and I do hereby declare the following to be a full and exact description of the same.

The object of my invention is to provide a simple and expeditious mode of tanning skins or hides of all kinds, and to accomplish that object I make use of the following-named solutions, viz:

Solution No. 1: Four quarts of tepid soft water, thirteen ounces of salt, one ounce of borax, one and a half ounce of saltpetre, two ounces No. 8 acetic acid, three ounces nitric acid.

Solution No. 2: Four quarts of soft water, eight ounces of pulverized nut-galls. Steep two hours in a clean tin vessel, cool, and strain it. It is then ready for use.

Solution No. 3: Four quarts strong decoction of boneset, one-half pound melted catechu, one-half pound extract of oak or hemlock.

The following is my process for tanning light hides, viz: After the hides are fleshed and thoroughly cleansed from all oily substances, immerse them in solution No. 1. Let the hides remain in this solution one hour, then drain over the tub or vat one-half hour, then immerse in solution No. 2. Let the hides remain in this solution one hour, then draw them and let drain one-half hour. After this return the hides to solution No. 1. Alternate five or six times between the two solutions, so as to make the time occupied in tanning ten or twelve hours, then rinse the hides and hang them in the shade to dry.

Heavy hides I manage as follows, viz: After soaking, hairing, and beating in the usual manner, I immerse the hides one day in solution No. 1, then draw the hides, and let them drain one-half day. Then immerse them in solution No. 3, letting them remain in this two days; then draw and let them drain over the tub or vat one-half day. Return them again to solution No. 1, letting them remain one day. Alternate in this way between the two so as to give the time in tanning from six to twenty days, according to the thickness and tenacity of the hides. After they are fully tanned they may be curried and finished in the ordinary manner.

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

Compounds or solutions for tanning hides and skins composed of the ingredients specified, mixed together in or about the proportion described, substantially as and for the purposes set forth.

O. B. EVANS.

Witnesses:

C. W. SHORT,
JOHN G. SIMMONS.