

UNITED STATES PATENT OFFICE.

SIMON SNYDER, OF DAYTON, OHIO.

IMPROVEMENT IN TANNING.

Specification forming part of Letters Patent No. **3,993**, dated April 10, 1845.

To all whom it may concern:

Be it known that I, SIMON SNYDER, of the city of Dayton, in the county of Montgomery and State of Ohio, have invented a new Mode of Tanning Leather by Puncturing or Perforating the Hides or Skins to be Tanned; and I do hereby declare that the following is a full and exact description.

The nature of my invention consists in the preparation of the hides or skins to be tanned by puncturing them with small holes extending partly through, or perforating them with holes entirely through, the hide or skin, either on the flesh or grain side, so as to admit the tannin more freely and perfectly to penetrate and operate upon the skin or hide. The most proper time for performing this process of puncturing or perforating is when the hide or skin is in its most relaxed or reduced state, being the last time it is worked out of the bate and just before putting it into the liquor or tan-ooze; but it may be performed at other points of progression in the cleansing or tanning process.

The punctures or perforations may be made either by a hand instrument with a surface of steel points, to be applied, as before stated, either to the flesh or grain side of the hide or skin, and made to penetrate either by pressure or striking with a mallet, or by passing the hide or skin under or over a cylinder the surface

of which is covered with steel points inserted at proper distances to be operated by hand, water, steam, or horse power.

The principal advantages of my invention are that hides and skins may be effectually tanned in a much shorter space of time than in the ordinary mode; that it will produce a better article of leather; that the hides and skins being made more readily susceptible of receiving the tannin the ooze must be more frequently renewed, and so will be kept constantly sweet, and that it will save bark, the expenses of a tannery in the number of vats and other fixtures required, and will be altogether and in other respects a cheaper process for the manufacture of leather.

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

The preparation of the hides or skins to be tanned by puncturing or perforating them, either on the flesh or grain side, with holes extending either entirely or partly through, so as to admit the tannin more freely and perfectly to penetrate and operate upon the skin or hide.

SIMON SNYDER.

Witnesses:

ROBT. C. SCHENCK,
C. H. WILTBERGER.