

# UNITED STATES PATENT OFFICE.

ROBERT ANDREWS, OF MILWAUKEE, WISCONSIN.

## IMPROVED COMPOSITION FOR STUFFING LEATHER.

Specification forming part of Letters Patent No. **90,333**, dated May 25, 1869.

*To all whom it may concern:*

Be it known that I, ROBERT ANDREWS, of the city and county of Milwaukee, and State of Wisconsin, have originated and invented a new and Improved Method of Preparing a Composition for Stuffing Leather, and for all purposes in which grease, oils, or tallow have heretofore been or are now used for preparing leather for consumption and in manufacture of it, which invention is an improvement upon the "improved composition for the manufacture and preserving of leather" for which Letters Patent were issued to me by the Government of the United States on the 22d day of January, A. D. 1867, of which the following is a full, clear, and exact description.

This invention consists in a discovery of a method of combining, mixing, and compounding common or crude tar with tallow, bees-wax, linseed-oil, neat's-foot oil, and the oil of tar, in such quantities and proportions of each, and in such a way and manner, as to cause the particles of each to assimilate and blend and form a composition to be used principally in the manufacture of leather, and chiefly for what is called "stuffing," but also for all other purposes for which the same may be used.

The method of making this composition embraces simply the process of effecting a combination of the tar, tallow, and oils. Ordinarily, common or crude tar will not unite, and cannot be made to unite with tallow and oil. The two have no affinity. I, however, claim to have solved a problem, and to be able to effect a complete and perfect union.

My process is as follows: I put together into a large caldron or iron vessel a quantity of tallow, oil of tar, bees-wax, linseed-oil, and neat's-foot oil, in such proportions or quantity of each as I think proper, chiefly in the proportions and quantities named in my original patent, and heat them over a slow fire until they boil or attain the highest possible degree of heat without igniting. I then take of this boiling and boiled mixture small quantities at a time, in a scoop or dipper, and pour it carefully into the vessel containing the crude or common tar which I have prepared for compounding. While the heated oils are thus being gradually introduced into the tar, I cause it to be agitated and moved by stirring it with some instrument. After the tar be-

comes warmed and softened, I quickly and at once pour the whole of the remainder of the boiling oils which I have ready for my purpose, and mix the entire mass thoroughly until there is a complete mingling of the whole. Before the mixture cools I again put it into an iron caldron and subject it to a slowly-increasing heat until it boils, being careful to avoid ignition. I then draw the liquid off into a vessel and let it stand until it becomes cold, when it is ready for use.

My original invention heretofore patented consisted, chiefly, in the discovery of a method of preparing a compound of oil of tar, tallow, bees-wax, and oils which was theretofore unknown in its nature and the use for which I designed it.

My object was to make a preparation, in which tar should be the main or effective ingredient, which could be infused into tanned skins and used in the manufacture of leather, believing that tar would in its action upon the leather render it more strong, elastic, and durable.

I used the oil of tar in my original invention of the composition as the nearest possible approach which I could then make toward the desired attainments, and because that was the only form in which I could make tar combine with the other materials used which would give character to the compound.

My present invention, therefore, consists in inducing crude or common tar to so unite with tallow and oils and the materials above named as to make a composition heretofore entirely unknown in its character and use for which I design it.

I desired to create a new material for stuffing tanned skins and making leather which could be readily infused into the skins prepared for leather of whatever kind.

My invention contemplates the use of the materials in different proportions, according to the purposes for which the composition is intended to be used, and, also, the combination of tar with one or all of the articles named, although I have thus far used one part of tar to the one part of all the oils, when boiled and mixed as above described.

What I claim, therefore, as my improvement upon the composition heretofore patented, and as my present invention, is the

method of combining common or crude tar or pitch with tallow, linseed-oil, bees-wax, oil of tar, and neat's-foot oil, in the manner herein described, in indefinite proportions of not less than twenty-five per cent. of tar, so as to form a complete and perfectly-assimilated compound; and

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

The mode of combining common or crude pitch or tar, tallow, bees-wax, linseed-oil, neat's-foot oil, and oil of tar, in any proportion, and

also for the composition to be applied to leather in any form, either in its manufacture or for improving or preserving it, or to any other article or thing for which it can be used, disclaiming all other things except the composition as above described and the method of making it, which composition I will denominate "tar leather-stuffing."

ROBERT ANDREWS.

Witnesses:

EMIL WALLBER,  
R. N. AUSTIN.