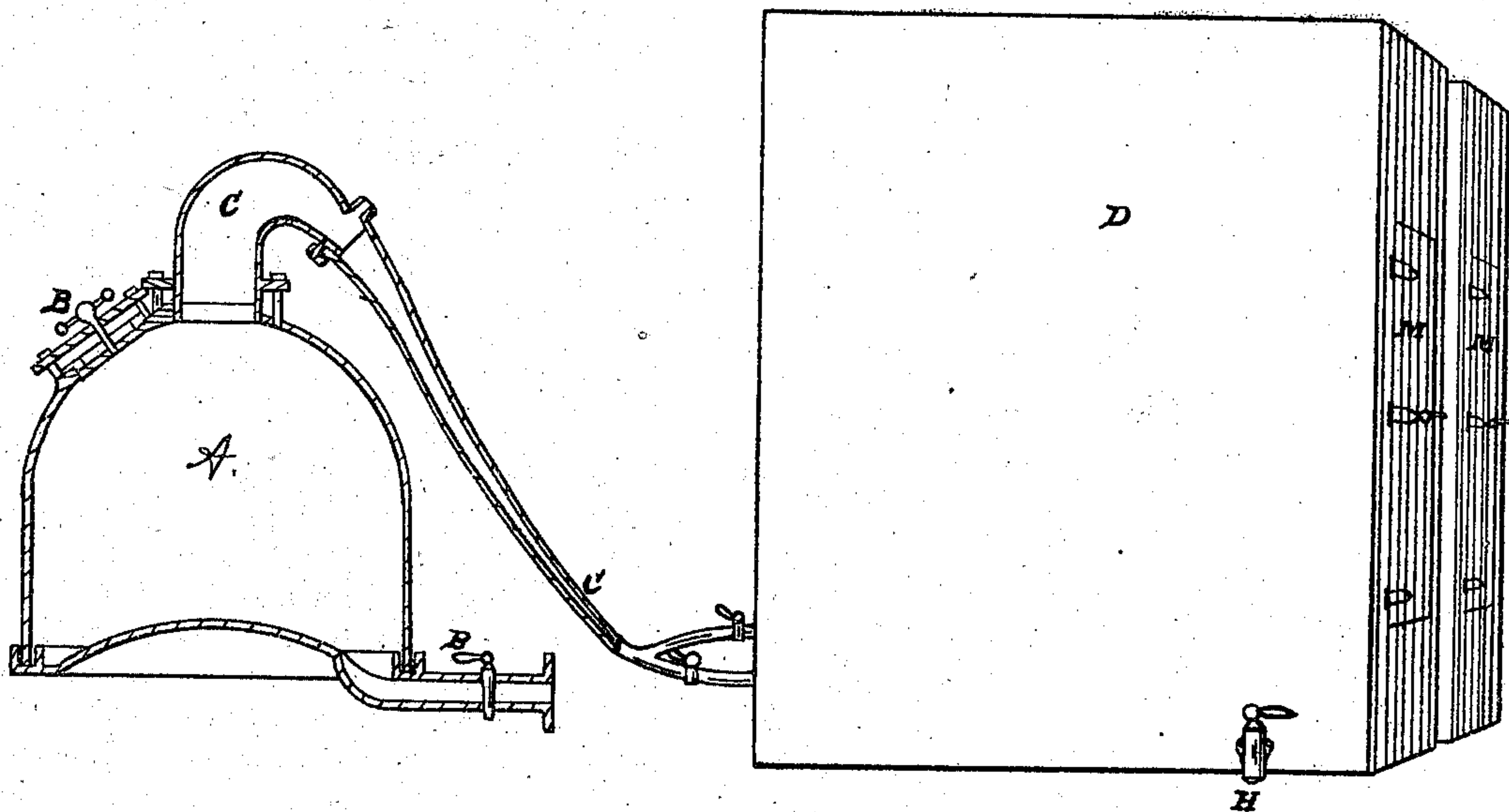


I. S. Robbins.
Treating Leather.

Nº 75795

Patented Mar. 24, 1868.



Witnesses.

Inventor.

Nathaniel Gill
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United States Patent Office.

LOUIS S. ROBBINS, OF NEW YORK, N. Y.

Letters Patent No. 75,795, dated March 24, 1868.

IMPROVED PROCESS OF OILING, PRESERVING, AND STRENGTHENING LEATHER.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, LOUIS S. ROBBINS, of the city, county, and State of New York, have invented a new and improved Process for Oiling, Preserving, and Strengthening Leather and Skins.

In the manufacture of leather, after the skins have been properly tanned; they are saturated with various liquid oils in that part of the general process known as currying. The oleaginous substances are applied by hand to the leather, when it is both wet and cold, so that they do not penetrate and permeate the leather as speedily and thoroughly as is required. The method is slow, laborious, and hence expensive. Whether this part of the operation be performed before or after the skins have been shaved on the flesh side, the oil does not penetrate all parts of the skin alike, for the reason that the membranous structure is of unequal thickness and compactness. It is impossible, therefore, to secure an equal diffusion of the oily substance by the ordinary method of its application. Now, therefore, to produce this equal distribution of such oleaginous substances as may be employed by the manufacturer, in the most thorough, rapid, and economical manner, as also to preserve and strengthen the skins and leather, is the object of this invention, and the object is accomplished thereby.

The following is a complete description of one form of apparatus, and of the method employed by me in the accomplishment of my object, as declared above, reference being had to the accompanying drawings which constitute part of this specification.

A, in the drawing, represents a retort, made of any desired form or size, in which the heavy oil of coal, tar, resin, paraffine oil, or other oleaginous substances or compounds are placed, and subjected to the action of heat from any suitable furnace. B represents the man-hole of the retort, used in cleansing the same, or in changing its contents. C, a pipe communicating with the retort A at or near its top, passing to and communicating with chambers or receptacle D. E represents the discharge-pipe, employed for removing the remaining contents after the operation is over. Heat being applied to the retort A, containing the heavy oil of tar, resin, paraffine, &c., as described, oleaginous vapors are generated therein, which pass out of the same through the connecting-pipe C, into the chambers D, where the skins are so arranged as to admit of their being permeated in the most effectual manner. This treatment is continued until the skins or leather, of whatever nature or kind, are sufficiently saturated, when the fire may be extinguished.

I do not confine myself to any particular form of apparatus, as there are various ways by which the same can be accomplished by the use of heat; but

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

The process for saturating skins or leather with oleaginous vapors and compounds, before, after, and during the operation of currying the same, substantially as herein described.

I also claim the application of the same process or treatment to all such articles manufactured from leather as may require the use of oils, either to render them impervious to moisture, or to increase their flexibility, strength, and durability.

LOUIS S. ROBBINS.

Witnesses:

M. ROBBINS,
L. DAGGETT.