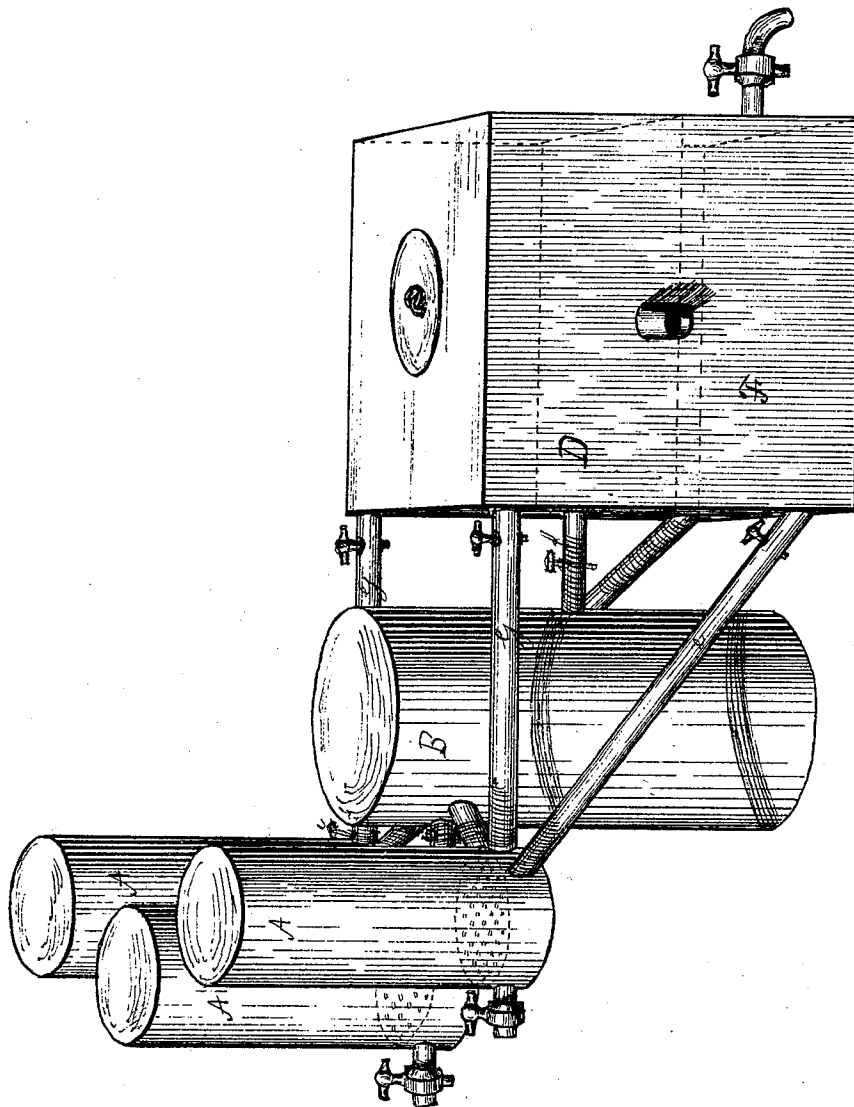


R. F. Wilson,

Making Extracts.

No. 110,710.

Patented Jan. 3. 1871.



Witness —
C. L. Nichols
O. G. Burnap

United States Patent Office.

RILEY P. WILSON. OF NEW YORK, N. Y.

Letters Patent No. 110,710, dated January 3, 1871.

IMPROVEMENT IN APPARATUS FOR MAKING EXTRACTS FOR TANNING.

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

I, RILEY P. WILSON, of New York, in the county and State of New York, have invented certain Improvements in Making Extracts for Tanning and other purposes.

The first part of my invention relates to the arrangement and combination of the various parts for the purpose of facilitating the leaching and concentrating the same so as to secure the best and uniform results.

General Description.

A A A are vats for leaching bark, containing a false perforated bottom, or, as a substitute, grate-vats may be used inside to contain the ground bark, and, after being leached, can be readily removed and their contents emptied, or perforated tubes may be used to aid leaching.

B is a receiving-vat for the liquors coming from the vats A A A, connected at the bottom with tubes *etc.*

D is an evaporating-pan with two compartments, one for containing the liquor to be evaporated, and one a steam-chamber beneath.

The evaporating pan or pans are steam-tight, having a tube or tubes connecting with the leaching-vats where the escaping-vapor is condensed, and the substances carried over by the vapor are lodged in the bark, thus saving all the products of the extract.

My plan of operating the apparatus is as follows:

After the receiver has been supplied with a sufficient amount of liquor from the vats by means of a

stop-cock, *i*, I let in a sufficient amount of the same through the pipe *f* to nearly fill the evaporating-pan D. I then let on the steam through another stop-cock, *g*, at the same time opening the stop-cock in the vapor-pipe *G*.

The waste steam from the steam-chamber *F* can be thrown in either of the bark-vats, or allowed to escape by the common method.

After the extract in the evaporating-pan D has been sufficiently condensed, it is drawn off in a vat to cool for barreling.

Claims.

I claim as my invention—

1. The combination of the leaching-vats, receivers, and evaporating-pan, with their connections, substantially as and for the purpose hereinbefore set forth.

2. A steam-tight evaporating-pan, with connecting tube or tubes to the leaching-vats, substantially as and for the purpose hereinbefore set forth.

3. The combination of the steam-chamber and evaporating-pan, with their connections, substantially as described.

4. Perforated tubes connected with the false bottom of the leach running up into the bark, so that the entire leach may be saturated by steam simultaneously.

RILEY P. WILSON.

Witnesses:

C. G. BENTEL,
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