

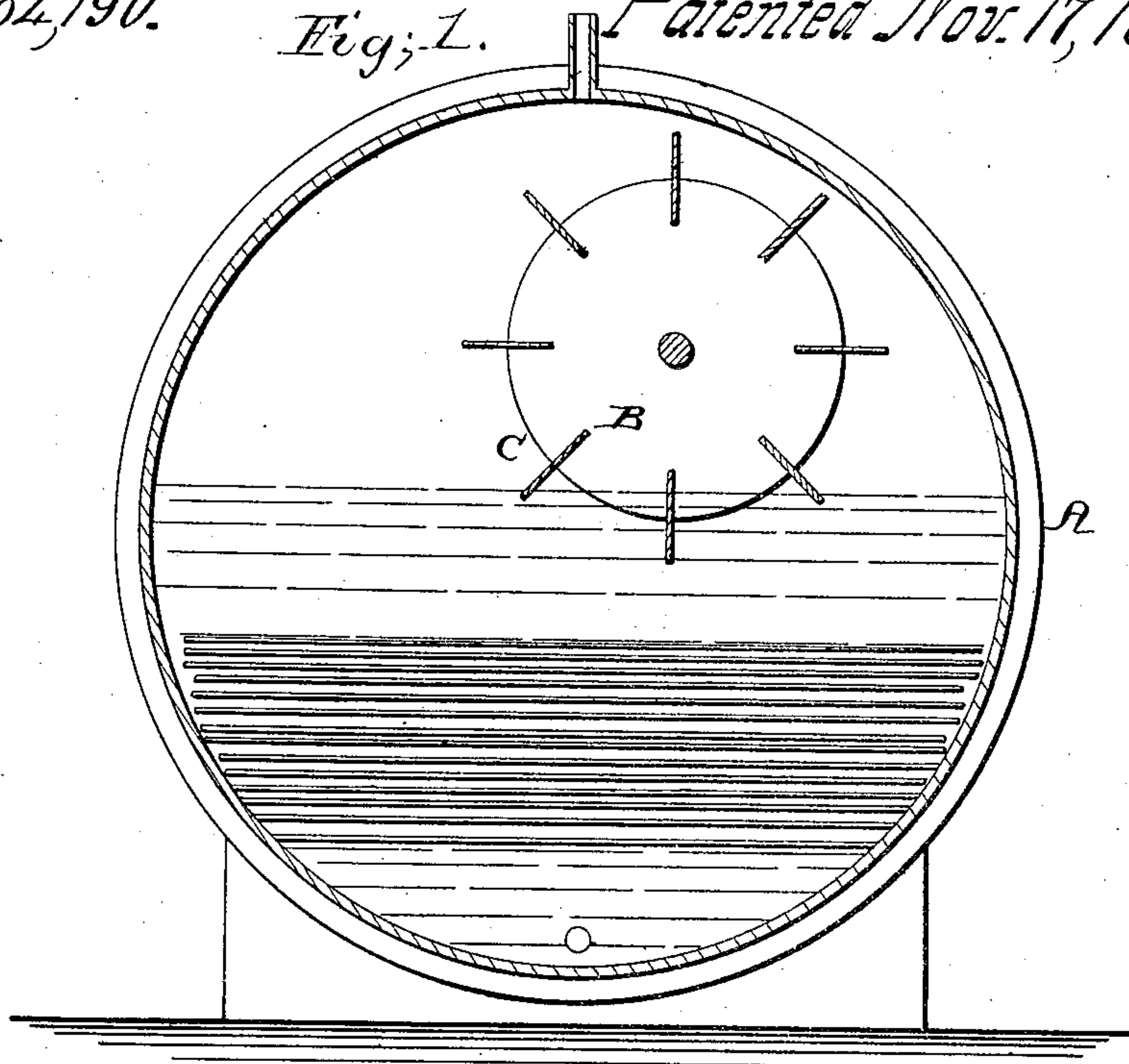
*S. Hosmer,*

*Tanning Apparatus.*

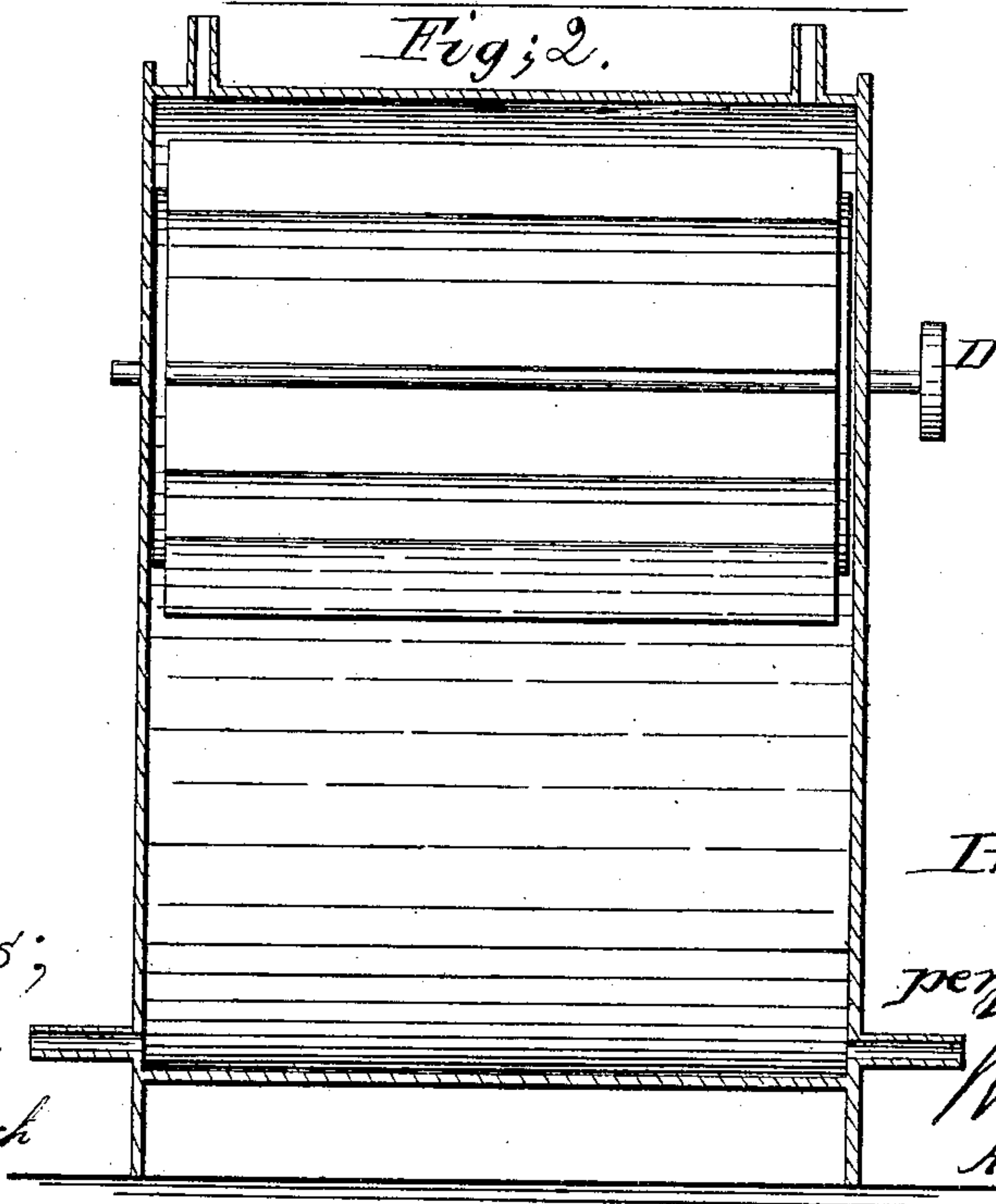
*N<sup>o</sup> 84,190.*

*Fig; 1.*

*Patented Nov. 17, 1868.*



*Fig; 2.*



*Witnesses;*

*Amos Morgan*

*Philip C. Dietrich*

*Inventor;*

*per S. Hosmer.*

*Mumford & Co.*  
*Attorneys*

# United States Patent Office.

SILAS HOSMER, OF CONCORD, MASSACHUSETTS.

Letters Patent No. 84,190, dated November 17, 1868.

## IMPROVED TANNING-APPARATUS.

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, SILAS HOSMER, of Concord, in the county of Middlesex, and State of Massachusetts, have invented a new and useful Improvement in Tanning-Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in tanning skins, and has for its object to provide an improved apparatus for tanning *in vacuo*.

It consists in the arrangement, in combination with a vacuum tanning-vessel, of an agitating-mechanism to produce and maintain currents in the liquor-bath containing the skins, to equalize the action of the liquor on the skins.

Figure 1 represents a transverse sectional elevation of a tanning-vessel, with my improvement attached thereto, and

Figure 2 represents a longitudinal section of the same.

Similar letters of reference indicate like parts.

A represents the vessel for containing the liquor-bath, into which the skins are to be placed, and from which the air is to be withdrawn, as is now practised, and which may be made of any suitable form and material, into which I propose to introduce an agitating-wheel, B, the floats C of which shall be sufficiently

immersed in the liquor to produce a current, by the rotation of the same, in order to prevent the tanning-matter, held in solution in the liquid, from settling in the vat, and thereby causing local differences in the result produced on the skins, which I have found to be the case where means are not taken to keep up an action of the liquor.

I do not desire to limit myself, however, to the arrangement of the wheel B, as other means may be adopted of a similar character, which will have a like effect; as, for instance, a shaft, having projecting arms immersed in the liquor to some extent, and having an oscillating movement, would serve a good purpose.

The shaft of the wheel B, or other apparatus, may project through a stuffing-box, and have a wheel, D, or other means for communicating motion from any competent power attached thereto.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The combination, with a vessel arranged for tanning *in vacuo*, of an agitating-wheel, B, or its equivalent, substantially as and for the purpose described.

The above specification of my invention signed by me, this 25th day of September, 1868.

SILAS HOSMER.

Witnesses:

FRANK BLOCKLEY,  
ALEX. F. ROBERTS.