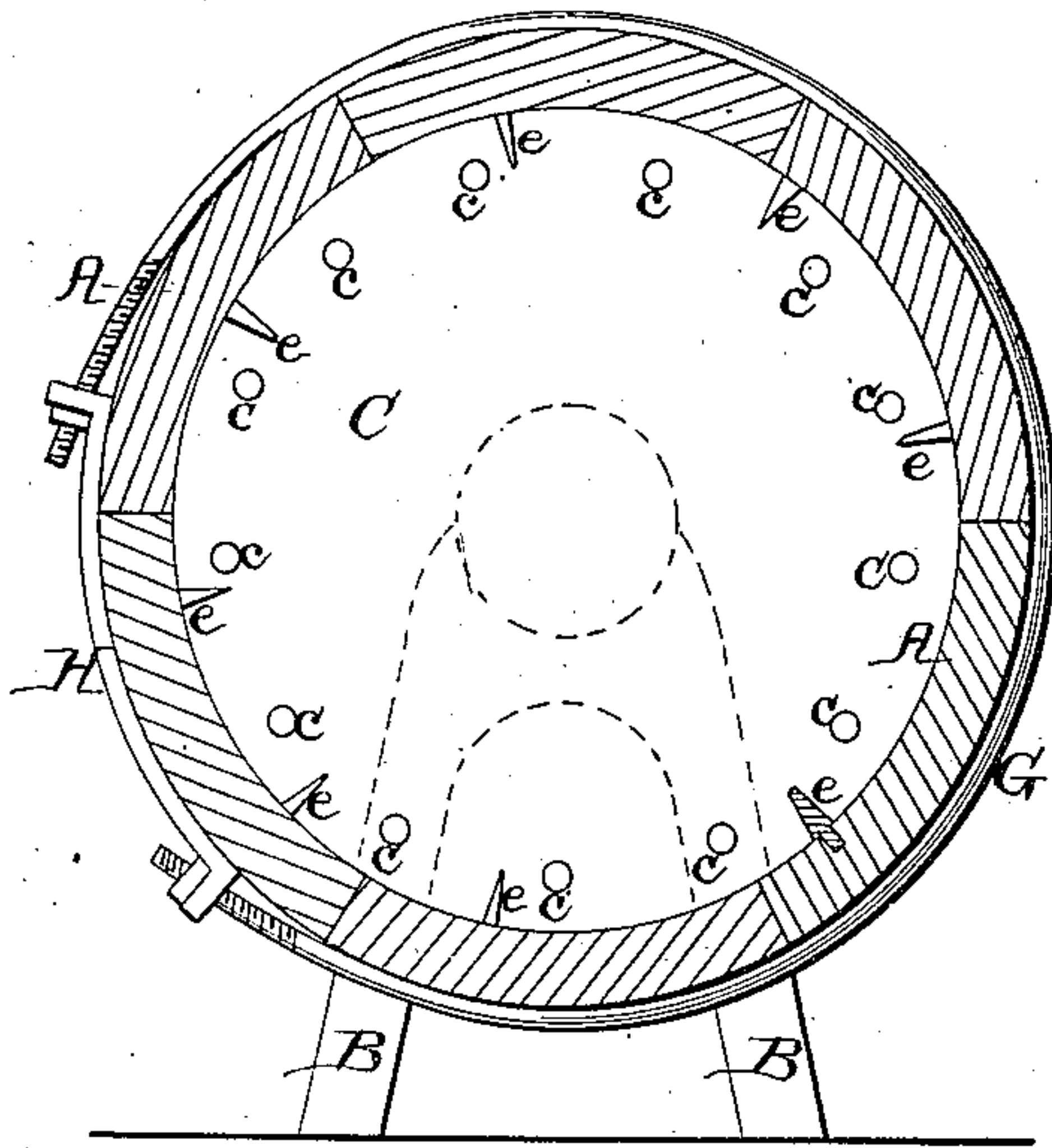


J. W. LULL.  
REVOLVING CYLINDER FOR TANNING HIDES.

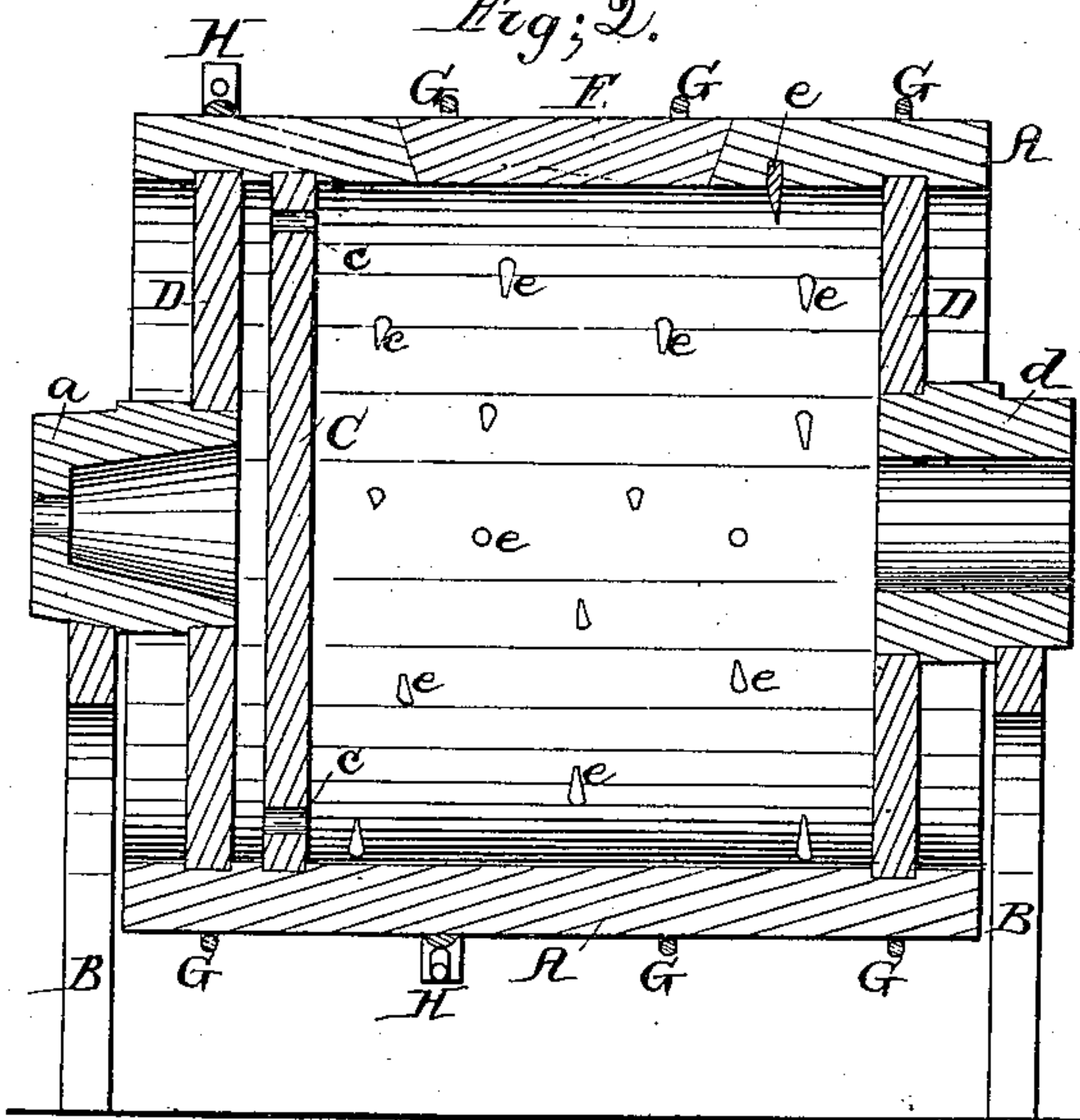
No. 76,784.

Patented Apr. 14, 1868.

*Fig; 1.*



*Fig; 2.*



*Witnesses;*  
*John R. Kemm*  
*John A. Pettit*

*Inventor;*  
*J. W. Lull*  
*Attorneys*

# United States Patent Office.

JOSEPH W. LULL, OF GLEN HOPE, PENNSYLVANIA.

*Letters Patent No. 76,784, dated April 14, 1868.*

## IMPROVED REVOLVING CYLINDER FOR TANNING HIDES.

*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, JOSEPH W. LULL, of Glen Hope, in the county of Clearfield, and State of Pennsylvania, have invented a new and improved Cylinder for Handling Leather; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable those skilled in the art to which my invention appertains to make use of it, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a cross-section, and

Figure 2 a longitudinal vertical section of my invention.

The object of this invention is to facilitate the handling of leather during the process of manufacture in tanneries.

In the drawings, A is a hollow wooden barrel or cylinder, rotating on large tubular journals *a a'*, which bear in a stout frame, B. The cylinder is provided with two tight heads, D D, and around its interior walls with a large number of projecting pins, *e e e*. It is constructed of staves, held together by round iron hoops G G, the ends of which are connected by curved couplings H H, in which they are fastened by a screw and nut, so that the hoops can be tightened or loosened to any required degree.

The leather is placed in this cylinder through a trap-door, F, and the cylinder is then rotated on its axis. While it is thus revolving, the ooze or liquor used in tanning is fed to the leather within, through one of the tubular journals, *a*, which is smaller than the other. C is a false head inside of the cylinder, and close to the head through which the liquor is introduced, the object of it being to retain the liquor and feed it slowly to the leather through a series of small holes, *c c c*, around its periphery. The tubular journal *a'* is made much larger than the other, to provide a free escape for the liquor from the cylinder after it shall have accomplished its work.

This apparatus is exceedingly simple and effective, accomplishing the work of a great many hands, and saving much time and money in the manufacture of the various kinds of leather. It is only necessary to place the leather in it, close the trap-door, and set it in operation by means of any power that may be convenient. As the cylinder revolves, the projecting pins take up the leather and separate it, preventing its remaining in a mass at the bottom, and it is thus brought thoroughly in contact with the tanning-liquid as long as it may be necessary to continue the operation.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The tanning of leather by means of a revolving cylinder, substantially as described.
2. The cylinder A, constructed with the heads D D, perforated interior head C, hoops G G, fastened by couplings H, door F, and projecting pins *e e e*, substantially as and for the purpose set forth.

JOS. W. LULL.

Witnesses:

A. W. LEE,

R. B. LEE.