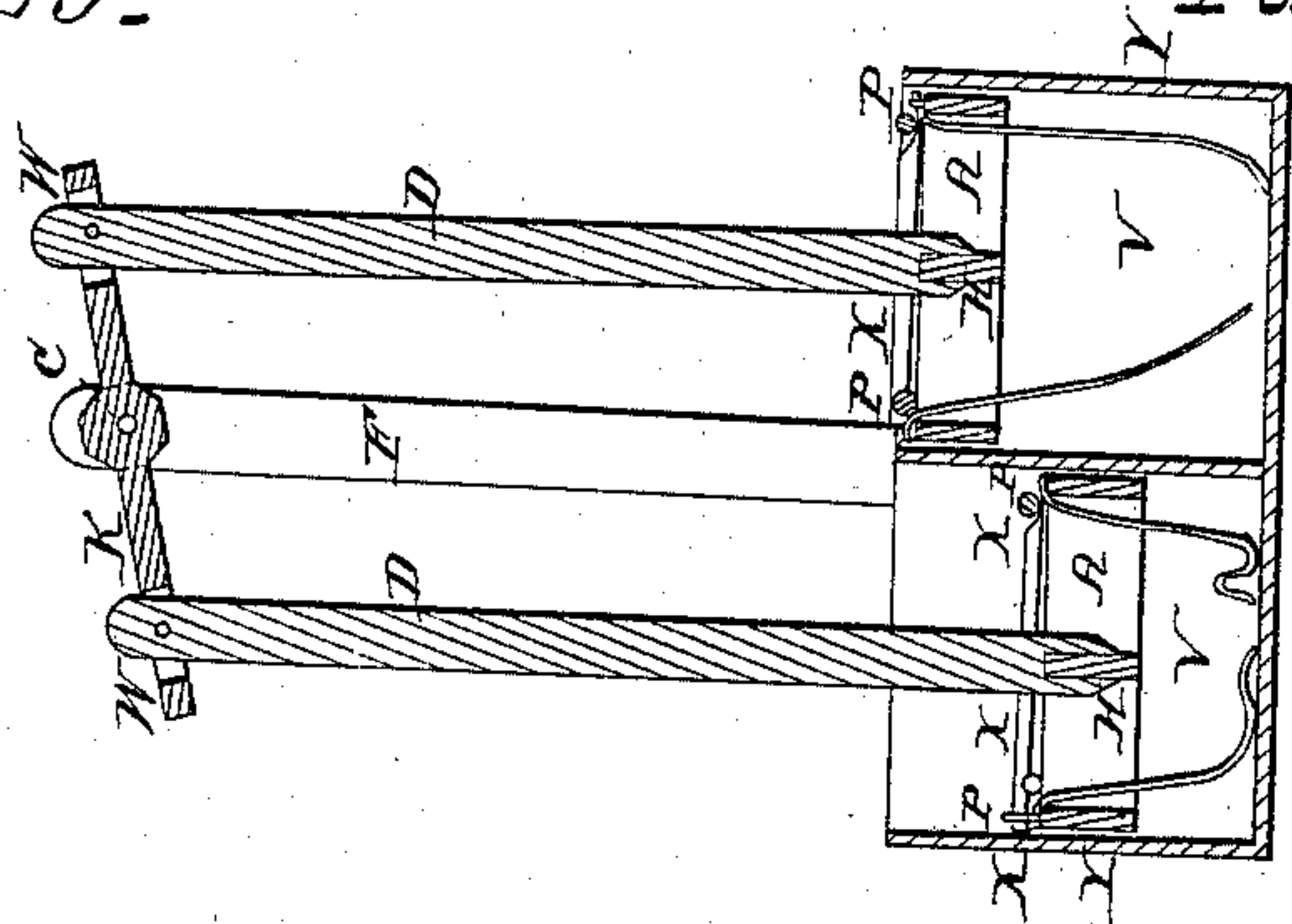


# Wallace & Fleming, Tanning Machine,

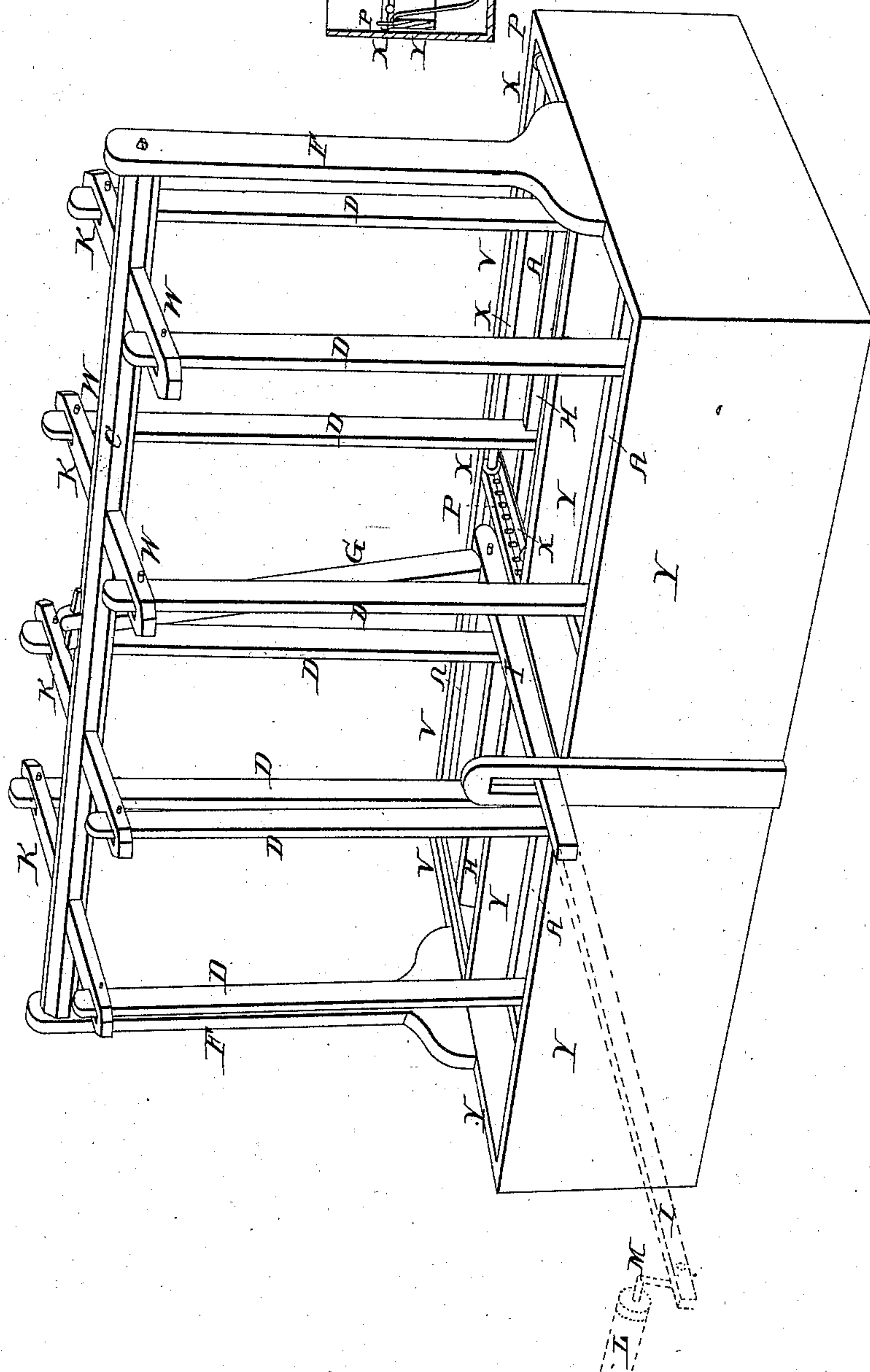
N<sup>o</sup> 2,729.

Patented July 20, 1842.

Fig; 2.



Fig; 1.





# UNITED STATES PATENT OFFICE.

W. WALLACE, OF LEHMAN TOWNSHIP, PIKE COUNTY, PENNSYLVANIA, AND J. FLEMING,  
OF SANDISTON TOWNSHIP, SUSSEX COUNTY, NEW JERSEY.

## TANNING HIDES BY MACHINERY.

Specification of Letters Patent No. 2,729, dated July 20, 1842.

*To all whom it may concern:*

Be it known that we, WEBB WALLACE, of  
Lehman township, in the county of Pike  
and State of Pennsylvania, and JOSEPH  
5 FLEMING, of Sandiston township, in the  
county of Sussex and State of New Jersey,  
have invented a new and useful Machine for  
Managing or Handling Hides During the  
Process of Liming and Tanning, called  
10 "The Tanners' Handler," which is described  
as follows, reference being had to the an-  
nexed drawings of the same, making part of  
this specification.

Figure 1 is a perspective view of the ap-  
15 paratus. Fig. 2 is a transverse section  
through two vats and frames.

The machine is made of sufficient size to  
handle the hides simultaneously in several  
vats V. Each vat is fitted with a rising and  
20 falling oblong frame A of nearly the size  
of the inside of the vat V shaped and ar-  
ranged so as to move freely up and down in  
the vat, of any convenient depth. The up-  
per sides of these frames are provided with  
25 pins P from which the hides to be tanned  
or limed are suspended. In Fig. 1 of the  
drawings only one of the frames is shown  
with pins. In Fig. 2 two frames are shown  
with pins. The rest of the frames are how-  
30 ever to be furnished in a similar manner.  
These frames are suspended to the outer  
extremities of several arms K passed hori-  
zontally through a horizontal longitudinal  
vibrating roller or rock shaft C by means of  
35 hanging rods D. The upper ends of these  
rods are connected with the outer extremities  
of the arms by pins W or loose joints. The  
lower ends of the rods are attached to the  
longitudinal cross timbers H of the afore-  
40 said suspended hide frames A by loose joints  
which cross timbers are arranged in the mid-  
dle of the said hide frames. The hides be-  
ing put on the pins or slit near their edges  
and suspended to said pins, are held down  
45 securely on the said pins by means of cross  
sticks X inserted into eyes or apertures of  
the frames A, or the hides may be secured  
to the frames A in any convenient way.

The vibrating roller C has a gudgeon at  
50 each end on which it turns freely in the tops  
of upright standards or posts F F, which are

placed at the ends of the vats V and support  
the whole vibrating apparatus with the  
hides suspended thereto.

An arm or lever G is inserted into the 55  
rock-shaft for vibrating or rocking the same  
projecting downward therefrom having at-  
tached to its lower end a pitman or con-  
necting rod I extending to a crank M in the  
end of a horizontal shaft L turned by any 60  
convenient power. Thus by the simple op-  
eration of turning the last mentioned shaft  
L and crank M the rock shaft C is turned  
to the right and left which raises and lowers  
alternately the several oblong frames A with 65  
the hides suspended therefrom about ten  
inches in the liquor or tannin keeping them  
constantly in motion below the surfaces of  
the liquor causing the hides to be tanned in  
about a fifth part of the time required in the 70  
old process; and with a saving of about one  
third of the bark, and producing a leather of  
a superior quality and weighing about ten  
per cent. more than leather tanned by the  
old process. 75

In liming the hides they are handled in  
a similar manner to that above described.

Any required number of frames may be  
operated by one crank shaft by connecting  
the arms and rods by suitable gearing and 80  
may be kept in motion night and day by  
water power which we prefer.

The rising and falling hide-frames A being  
of the same weight and suspended to the  
arms K projected equally at right angles 85  
from either side of the rock shaft C and  
the frames with the hides moving in the  
liquor or tannin, will require but little power  
to move the apparatus.

What we claim as our invention and which 90  
we desire to secure by Letters Patent is—

The use of the machine constructed as be-  
fore described in the process of tanning  
leather, for keeping the hides alternately  
rising and falling in the liquor during the 95  
process of tanning leather, as herein set  
forth.

WEBB WALLACE.  
JOSEPH FLEMING.

Witnesses:

WM. P. ELLIOT,  
EDMOND MAHER.