

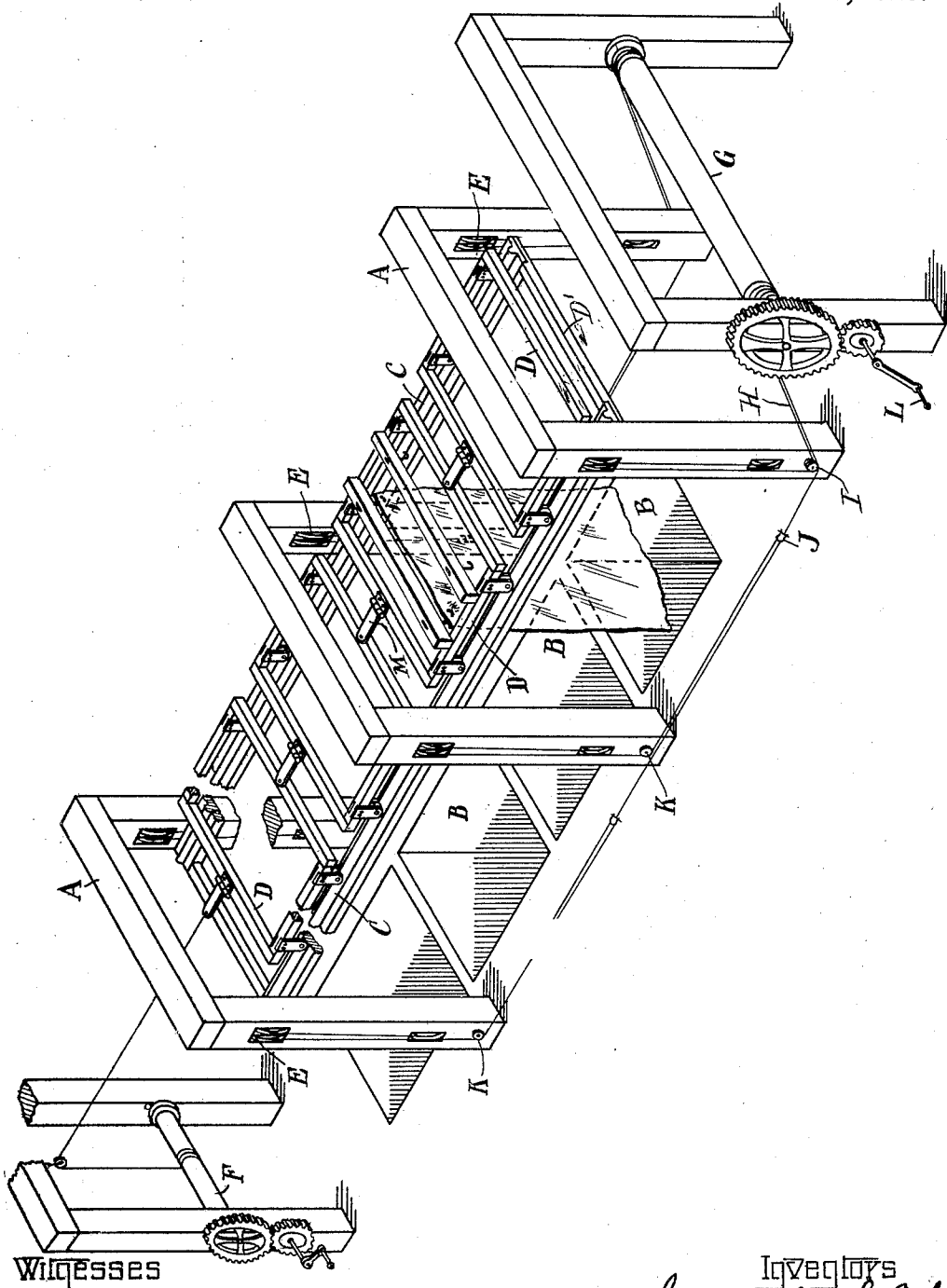
JAMES WRIGHT AND JOHN WRIGHT.

TANNING MACHINERY.

APPLICATION FILED APR. 15, 1919.

1,343,756.

Patented June 15, 1920.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES WRIGHT, OF LIVERPOOL, AND JOHN WRIGHT, OF WARRINGTON, ENGLAND.

TANNING MACHINERY.

1,343,756.

Specification of Letters Patent.

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Application filed April 15, 1919. Serial No. 290,154.

To all whom it may concern:

Be it known that we, JAMES WRIGHT and JOHN WRIGHT, subjects of the King of Great Britain, residing at Liverpool and Warrington, both in the county of Lancaster and Kingdom of England, respectively, have invented certain new and useful Improvements in Tanning Machinery, of which the following is a specification.

In tanning hides it is customary to suspend them from cross-pieces placed across the tan pits, and periodically to lift up these cross-pieces with the hides attached to them, and transfer them to the next pit, and so on, as each tan pit in succession has a little stronger tanning material than the last.

Now this invention is designed to do this work by machinery. It is best described by aid of the accompanying drawing which is an isometrical view of our apparatus. In this A—A indicates a series of any desired number of frames or suspenders fixed across a row of tan pits B. Suspended from these frames are two lines of rails C. On these run light trolleys D on which the bars carrying the hides rest. On each frame we arrange pulleys E which are attached to the side of the rails or their supports and the rails are spaced apart by cross-pieces D' (only one shown) so that there is always the right width between them. At the ends of the long row of frames we place winches F and G and from the winch G bring lines H around pulley blocks I to couplings J and from thence around guide pulleys K—K to the main pulleys E. Thus by moving the handle L of the winch G we can raise up simultaneously the two rails from points under each frame. From the winch F lines are attached to the row of trolleys D—D, so that by winding up the winch F these trolleys in succession are brought to the end of the rails and can be lowered by hand or by a block and tackle not shown, down on to a pair of rails, also not shown, on each end of the end tan pit and on its top curbs. The line from winch F is then attached to the next trolley and a fresh trolley of hides added at the end nearest winch G.

The mode of action is as follows:—

The trucks or trolleys D we will say are all in position with their hides suspended from cross pieces laid across the trolleys and their rails are lowered until all hides are immersed in the tan pits immediately below them. After lying say a day or two thus

the winch G is turned until all the hides are brought again free of the liquid in the tan pits. They are then left for a time to drain. When the tan liquor has ceased to trickle from them, the hand winch F is turned until each of the trolleys is brought forward to a position over the next tan pit from that in which they had previously been. The end trolley is, however, first fastened to a little crane or block tackle not shown and lowered down or it is unloaded of its hides and lifted down and taken away as required. The remaining trolleys (with the fresh trolley added at the other end of the string) and the rails are now lowered until the hides are again immersed in the tan liquor. Each movement of the trolleys from one tank to another brings the hides into a little stronger liquor until finally the hides are finished and carried off. The empty trolley is now brought back and at next movement of the trolleys is brought to above the first tank, loaded with hides and there immersed like the others. The trolleys are clipped together by clips M so as to all be carried forward simultaneously.

We declare that what we claim is:—

1. The improvements in tanning machinery which consists in a series of supports placed over a line of tan pits, a line of rails suspended over the said tan pits from said supports, trolleys on said rails carrying cross-pieces and means for raising and lowering the line of rails and trolleys and for moving the trolleys forward.

2. The improvements in tanning machinery which consists of a row of tan pits, a line of rails suspended over the tan pits, trolleys on said rails, cross-pieces for carrying hides on said trolleys, means for raising and lowering said rails and trolleys and for bringing the trolleys forward.

3. The combination of a line of tan pits, a double line of rails suspended above them, a winch, pulleys and line for raising and lowering the rails, trolleys on said rails, hide carrying cross pieces on said trolleys, and means for moving the trolleys periodically along the rails.

4. The combination of the winch F, a cord on same, a line of trolleys attached to said cord and connected together, rails carrying said trolleys and means for periodically raising and lowering said rails.

5. The combination of a row of tan pits, transverse frames arranged at intervals

along the row, a winch at one end, cords attached thereto, pulleys on the frames over which said cords pass, a line of railway suspended on said cords, and trolleys on said railway carrying the hides suspended therefrom.

In witness whereof, we have hereunto

signed our names this 22 day of March, 1919.
in the presence of two subscribing witnesses.

JAMES WRIGHT.
JOHN WRIGHT.

Witnesses:

WM. P. THOMPSON,
JOHN McLACHLAN.