No Printed Specification Available

1336X

P. Dorr,

Splitting Leather,

Patented July 12, 18.

Fig: 1.

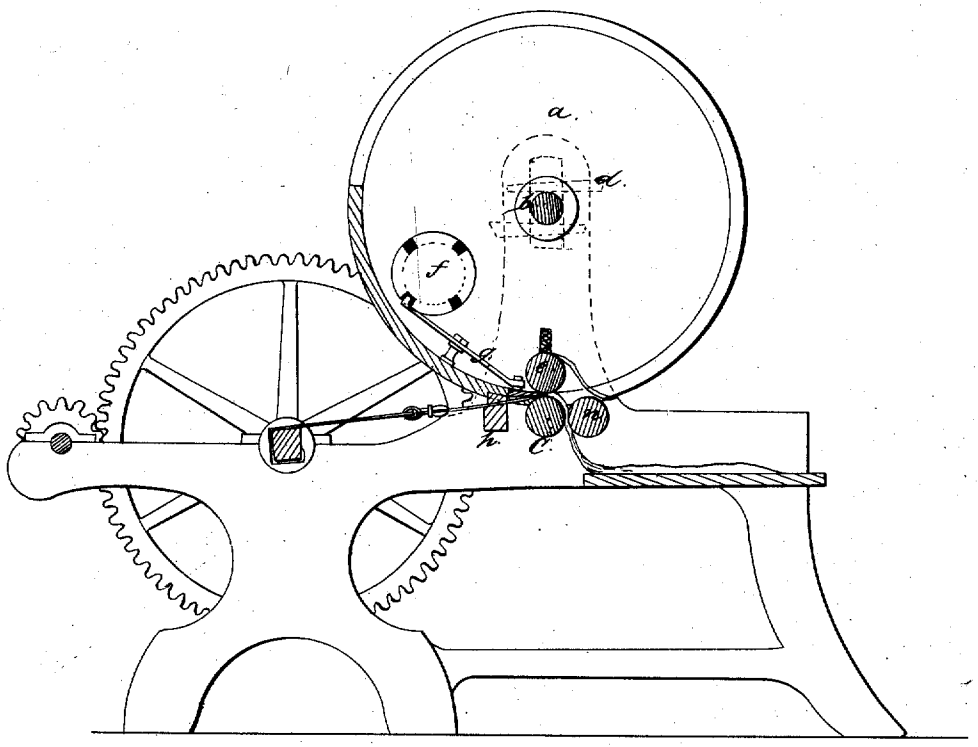
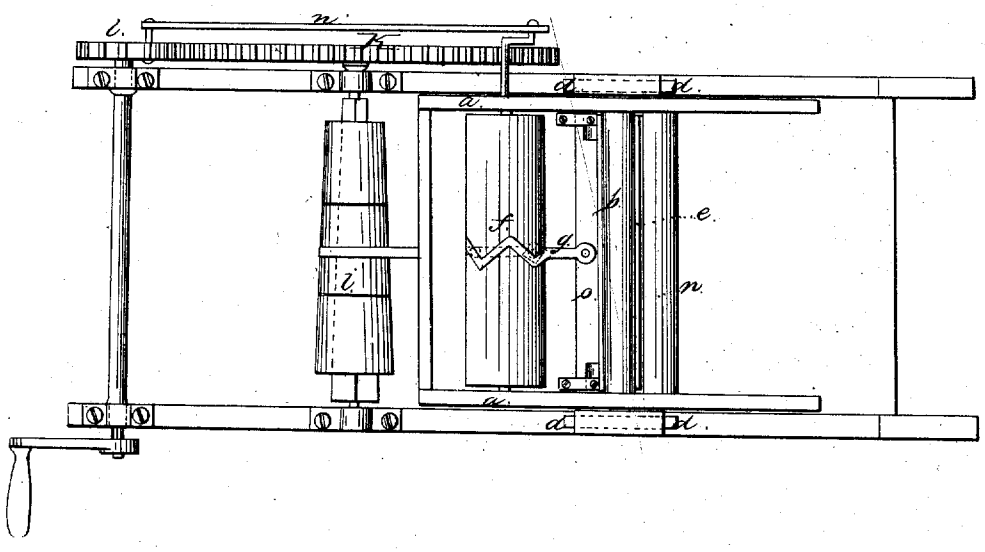


Fig: 2.



1336 X

July 12, 1810

Thomas Dow
Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Thomas Dow himself of his cylindrical Leather Splitting Mill.

The invention of the improvement called the Cylindrical Leather Splitting Mill consists in constructing the machine with a Cylinder on which the Knife is fixed to split the Leather. The Cylinder is made of Wood with an Iron or wooden axis on which it turns. The ends of the Cylinder may be made of wood or cast iron about two feet or more in diameter. The Knife is fixed in the circumference of this Cylinder parallel with the said axis and is made to move endways by a crank which communicates with the Roller round which the Leather is drawn when it is splitting. This Cylinder is fixed in a proper frame. When in operation the Knife is turned over the said Cylinder so as to be under the centre of it. Directly under the Knife a roller is permanently fixed on the frame which serves as the gauge of the Leather while splitting and is made to fit the edge of the Knife so as to allow half the thickness of the Leather to pass between it and the edge of the Knife. The Knife is regulated to this roller according as the Leather is required by wedges on the top of the boxes of the pivots of the said Cylinder axis. Above the edge of said Knife another roller is fixed in said Cylinder with springs on its pivots in the ends of said Cylinder so as to keep said Roller down close to the edge of the said Knife and keep the Leather also pressed upon said Roller under the edge of said Knife. The Cylinder has only a quarter section of its circumference on the other part in lieu of this. To this quarter section the Knife is fixed and the machinery for giving motion to the Knife. The motion to the Knife is produced by a roller put into said Cylinder with an oblique or spiral groove. A lever fixed in the Cylinder so as to move said Knife endways is operated upon by said spiral groove, and is retruded one way and the other by a crank on said Roller to which Crank an arm is fixed which communicates with the primary motion of the machine. Back of the Knife is constructed a Spreader which is made of wood falling together like jaws having notches cut in them obliquely each way so as to spread the Leather as it is drawn in while splitting. The under jaw is on the frame the upper is on the Cylinder. When the Leather is to be put in the said Cylinder is turned each time to bring the Knife upwards, or at the top of the Cylinder which is horizontally in which position it is easily taken out and sharpened and put in again. The splitting Leather are fixed to the ends of the Cylinder so as to allow the edge of the Knife to come to its proper place and firmly to fix it firmly

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while splitting the Leather. A conical square Roller with three wheels fitted to it, is fitted into the frame round which the leather is drawn while splitting. The said wheels are moveable on said square roller so as to prevent the Leather from stretching. A pair of nippers with wooden jaws is fixed with proper Leather straps to this roller. These nippers take hold of the Leather drawing said conical Roller, they stand it through and as it is split, it then is wound on this roller. On one end of this conical Roller a conical cast iron wheel two feet in diameter is firmly fixed. This conical wheel is turned by a pinion to which a crank is fixed by which the whole machine is made to operate. Another roller is also fixed on the frame to keep the Leather while splitting up close to the surface of the cylinder. The roller under the edge of the knife and which forms the gauge is made of steel now about five inch. in diameter and is accurately turned. The three Rollers are made of hard wood. The skins of Roans Leather as well as sheep and other skins may be split by this machine when wet soon to make two skins out of one.

Thomas Dove.

Witnesses
John Fairbanks
Josiah Loring

Drawing made by D.

Engd.
MC