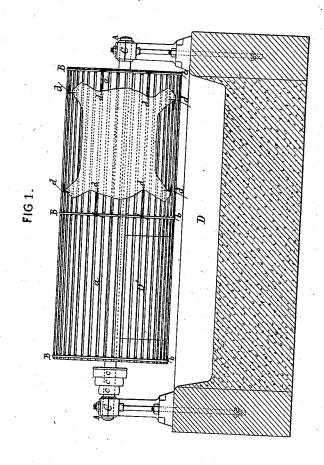
(No Model.)

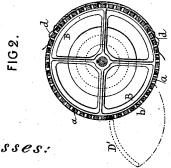
E. DE SOLMINIHAC.

CENTRIFUGAL MACHINE FOR DRYING HIDES AND SKINS, SPENT TAN, AND OTHER MATTERS.

No. 305,157.

Patented Sept. 16, 1884.





Witnesses:

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United States Patent Office.

EMILE DE SOLMINIHAC, OF PONT AVEN, FRANCE.

CENTRIFUGAL MACHINE FOR DRYING HIDES AND SKINS, SPENT TAN, AND OTHER MATTERS.

SPECIFICATION forming part of Letters Patent No. 305,157, dated September 16, 1884.

Application filed June 4, 1884. (No model.) Patented in France January 5, 1884, No. 159,532.

To all whom it may concern:

Be it known that I, EMILE DE SOLMINIHAC, of the city of Pont Aven, France, have invented an Improved Centrifugal Machine for Drying Hides and Skins, Spent Tan, and other Matters, of which the following is a full, clear,

and exact description.

This invention relates to a centrifugal machine for rapidly drying hides, skins, spent 10 tan, &c., but more especially hides and skins, as they come from the tan pits. The machine consists of a revolving skeleton drum formed of bars placed at a little distance apart, upon the outside of which are spread the hides or 15 skins, or inside of which is placed the spent tan to be desiccated. It is lined internally with fine galvanized-iron wire-work to prevent the escape of the tan.

In order that the invention may be more 20 readily understood, I will proceed to describe the same with reference to the accompanying drawings, forming part of this specification, which illustrate one example of the machine, Figure 1 being a longitudinal elevation of the 25 machine complete, and Fig. 2 a cross-section

of the drum.

The same letters of reference indicate the

same parts in the two figures.

Upon a shaft, A, which may be either ver-30 tical or horizontal, are keyed three cast-iron or other disks, B, at suitable distances apart. They are of equal diameter, and around their periphery are secured laths a, of wood or other material not liable to injure the hides. These laths form the circumference of the drum, and are suitably spaced to admit of air circulating through them. The bars, are fixed to the disks B by means of bolts, whose rounded heads bear on the one side against 40 copper hoops b and on the other against the flanges of disks B. The hoops b serve to prevent contact of the hides with the iron disks The shaft A is provided with speedpulleys c c c, and is mounted in bearings C C, supported by cast-iron or other standards, or upon a solid foundation of masonry.

D is a trough for receiving the water extracted by centrifugal force from the spent tan or other matters placed in the drum, and 50 serving also to receive the matters after drying. The bars a serve as a support for an internal net-work of galvanized iron, which prevents the escape of the materials placed in the drum when subjected to the action of 55 centrifugal force for the purpose of extract-

ing the water therefrom. Access is had to the interior of the drum for introducing and removing the tan or other materials to be desiceated by means of doors D', formed by cutting out a segment of the circumference of 60 the drum, supporting the pieces of the bars cut out by cross-strips, and hinging the whole so as to swing outward, as shown in dotted lines in Fig. 2, and when closed form a part of the skeleton drum, as shown in Figs. 1 and 65 The hides or skins are stretched upon the outside of the drum by means of wood or copper clips d, attached to the bars by cords in such manner that the greater the centrifugal force the firmer will the clips grip the 70 hide.

The machine is driven at a very high speed, so that the hide is brought constantly in contact with a body of cold air, and the last traces of moisture are driven off, even that in 75 the form of vapor. The machine requires only to be placed in a shed or other inclosed space, and its speed may be varied according to the thickness of the hides and the amount of moisture contained.

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By means of this machine the hides may be brought to a commercially dry condition in an hour. The sweeping and brushing of the hides is dispensed with, as the adhering tan falls off as the drying proceeds, so that 85 the hides are cleaned as well as dried. The moldiness so frequent at present, which injures the appearance of the grain and deteriorates the quality of the hide, is entirely prevented, owing to the rapidity with which 90 the whole contents of a pit may be desiccated.

I claim-

The centrifugal machine for drying hides, skins, spent tan, and other materials, consisting of a rotary skeleton drum formed of 95 spaced apart bars having clips or means to stretch the hides or skins upon the circumference thereof, said drum having a wire-work lining, substantially as and for the purpose set forth.

The foregoing specification of my improved centrifugal machine for drying hides and skins, spent tan, and other matters signed by me this 12th day of May, 1884.

EMILE DE SOLMINIHAC.

Witnesses:

P. A. MANDART, PH. PAIMPEC, Merchants' Clerks.