

No. 646,334.

Patented Mar. 27, 1900.

L. WERTHEIM.
APPARATUS FOR ROSSING BARK.

(Application filed Dec. 21, 1898.)

(No Model.)

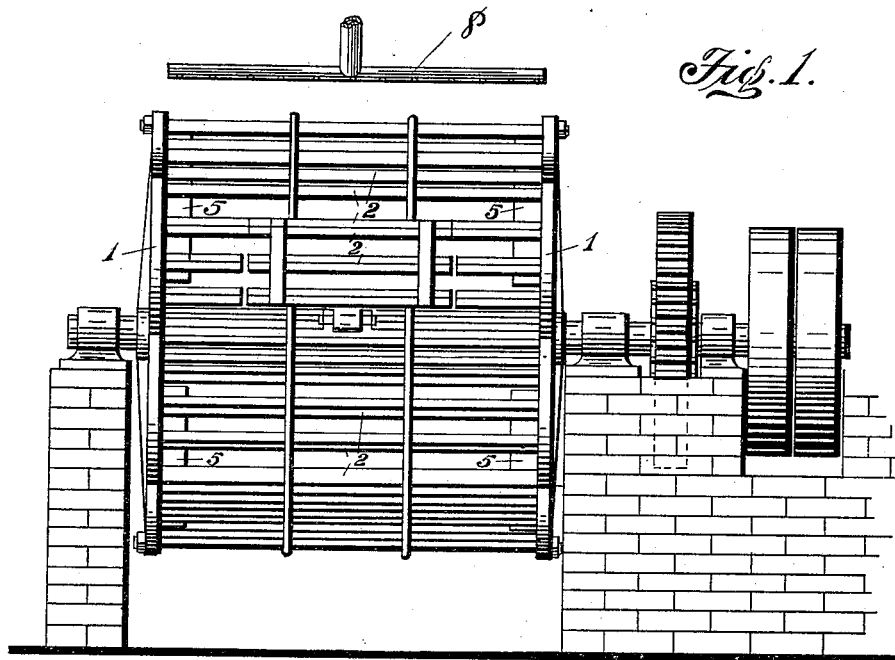


Fig. 1.

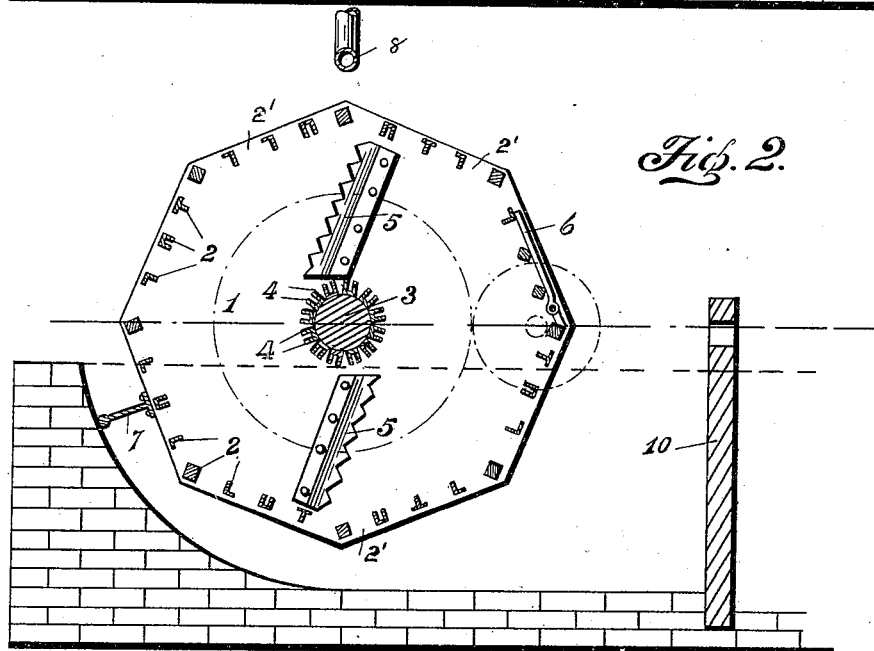


Fig. 2.

WITNESSES

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LEOPOLD WERTHEIM, OF CASSEL, GERMANY.

APPARATUS FOR ROSSING BARK.

SPECIFICATION forming part of Letters Patent No. 646,334, dated March 27, 1900.

Application filed December 21, 1898. Serial No. 699,952. (No model.)

To all whom it may concern:

Be it known that I, LEOPOLD WERTHEIM, manufacturer, a subject of the King of Prussia, Emperor of Germany, residing in Cassel, Germany, have invented an Improvement in Apparatus for Rossing Bark, of which the following is a specification.

This invention relates to apparatus for rossing bark; and it consists in certain novel improvements in such apparatus, all of which will be presently specified, and enumerated in the claims hereto appended.

In the accompanying drawings, which form a part of this specification, Figure 1 is a side view of a machine embodying my improvements. Fig. 2 is a vertical section of the same.

The apparatus consists of a rotating drum 1, the mantle of which may be cornered, or of a star-like construction or of any other suitable form and is composed of iron bars 2 of diverse form as shown in section in Fig. 2, arranged equidistant from each other, forming spaces 2' and bolted or otherwise secured to the ends of the drum. This mantle is rigid on a shaft 3, which is provided inside the drum with U-shaped iron bars 4. The inner walls of the two end extremities of the drum may also be provided with projecting plates having serrated edges 5, which serve as agitators. An opening closed by a door 6 is provided in the mantle for the passage of the wood in and out of the same. I also provide one or more scrapers 7, fixed to the outside of the mantle, which are adapted to clear away the bark which falls through the interstices 2'. Above the drum and parallel therewith there is provided a perforated tube 8, which is connected with a suitable water-supply to pour water on the drum while the latter is in motion in order to wash the bark and cause the same to be conveyed away after its removal from the wood. By this arrangement the wood is thoroughly soaked and acquires a tendency to cling together, the pieces being alternately compressed, torn apart, and frictionized, whereby the bark is soon loosened.

When the scrapers 7 fail to collect any further pieces of bark and the water leaving the drum is practically clear, it is at once evident

to the attendant that the wood has been thoroughly barked. Thus the necessity of stopping the operation at certain periods to observe the progress of the work is obviated.

In some instances it is desirable to again wash the wood after the bark has been completely removed from the same, and to this end a means may be provided for collecting a sufficient depth of water for this purpose. In the drawings the drum is shown as mounted within a brick foundation closed on three sides and having the other side or end provided with a gate 10. In this instance the water may acquire a depth approximately half the height of the drum.

Having now described my invention, I claim—

1. An apparatus such as described, embodying a drive-shaft, a drum rigid thereon, having its periphery formed of diversely-shaped rods 2, with an opening for the introduction of the wood and a suitable closure therefor, agitators having serrated edges, arranged at either end of the drum, angular projections radiating from the shaft, and a water-supply located above the drum, substantially as described.

2. In a machine such as described, in combination, a shaft journaled in a suitable supporting-frame, a drum rigid thereon, said drum consisting of end disks and parallel and diversely-shaped rods 2 connecting the peripheries of the disks and having spaces between them for the passage of the bark, and an opening with a suitable closure therefor for the introduction of the wood, plates diversely arranged at either end of the drum and having outwardly-projecting serrated edges, U-shaped rods 4 mounted upon the shaft, a water-supply located above the drum, and means such as gate 10 for retaining the water about the drum, said drum having a revolving motion, substantially as described.

In witness whereof I have hereunto signed my name, this 5th day of December, 1898, in the presence of two subscribing witnesses.

LEOPOLD WERTHEIM.

Witnesses:

M. W. WILRITH,
ERWIN L. GOLDSCHMIDT.