

No. 615,771.

Patented Dec. 13, 1898.

L. WERTHEIM.

APPARATUS FOR STRIPPING OFF BARK OF WOOD.

(Application filed Feb. 2, 1898.)

(No Model.)

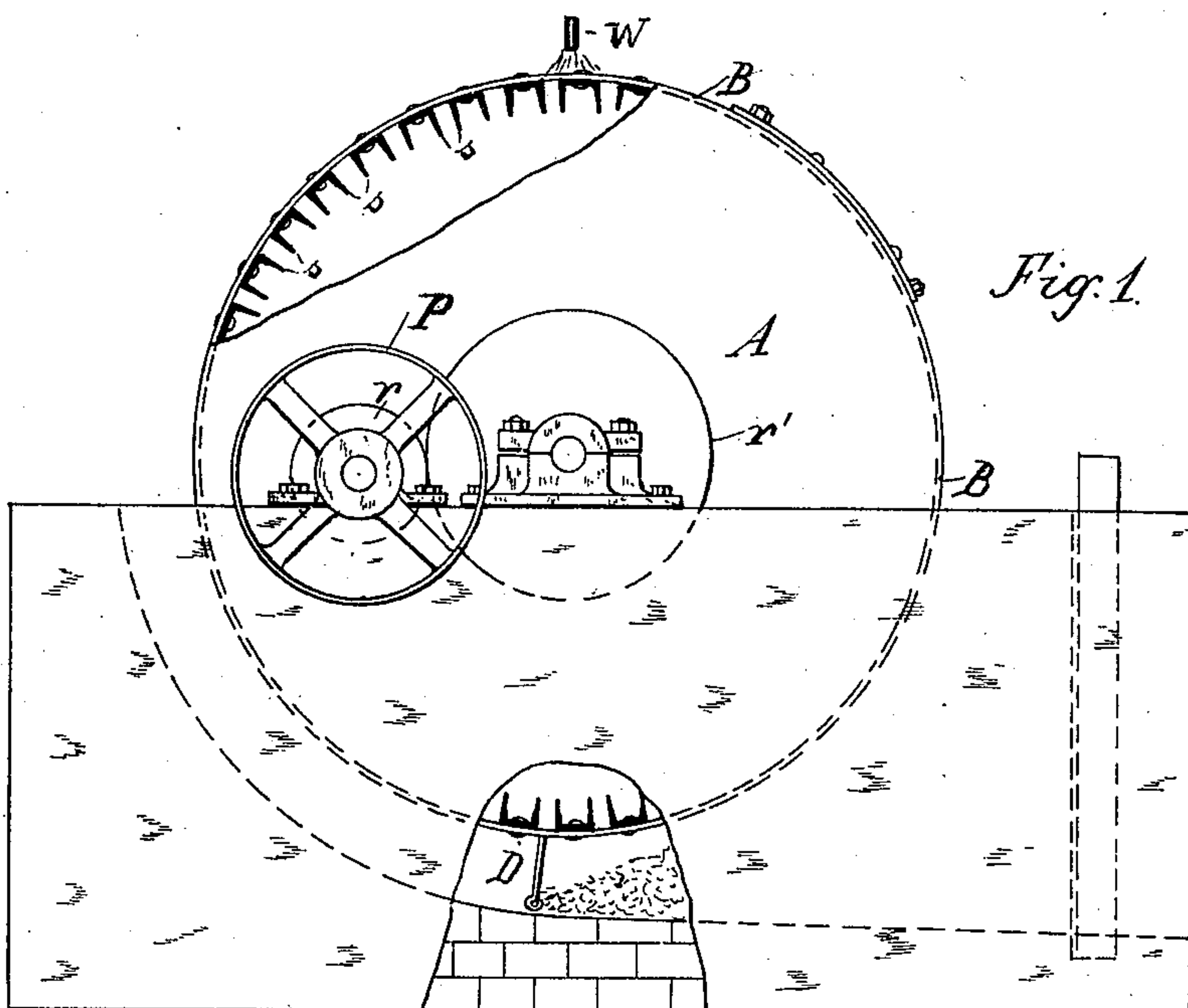


Fig. 1.

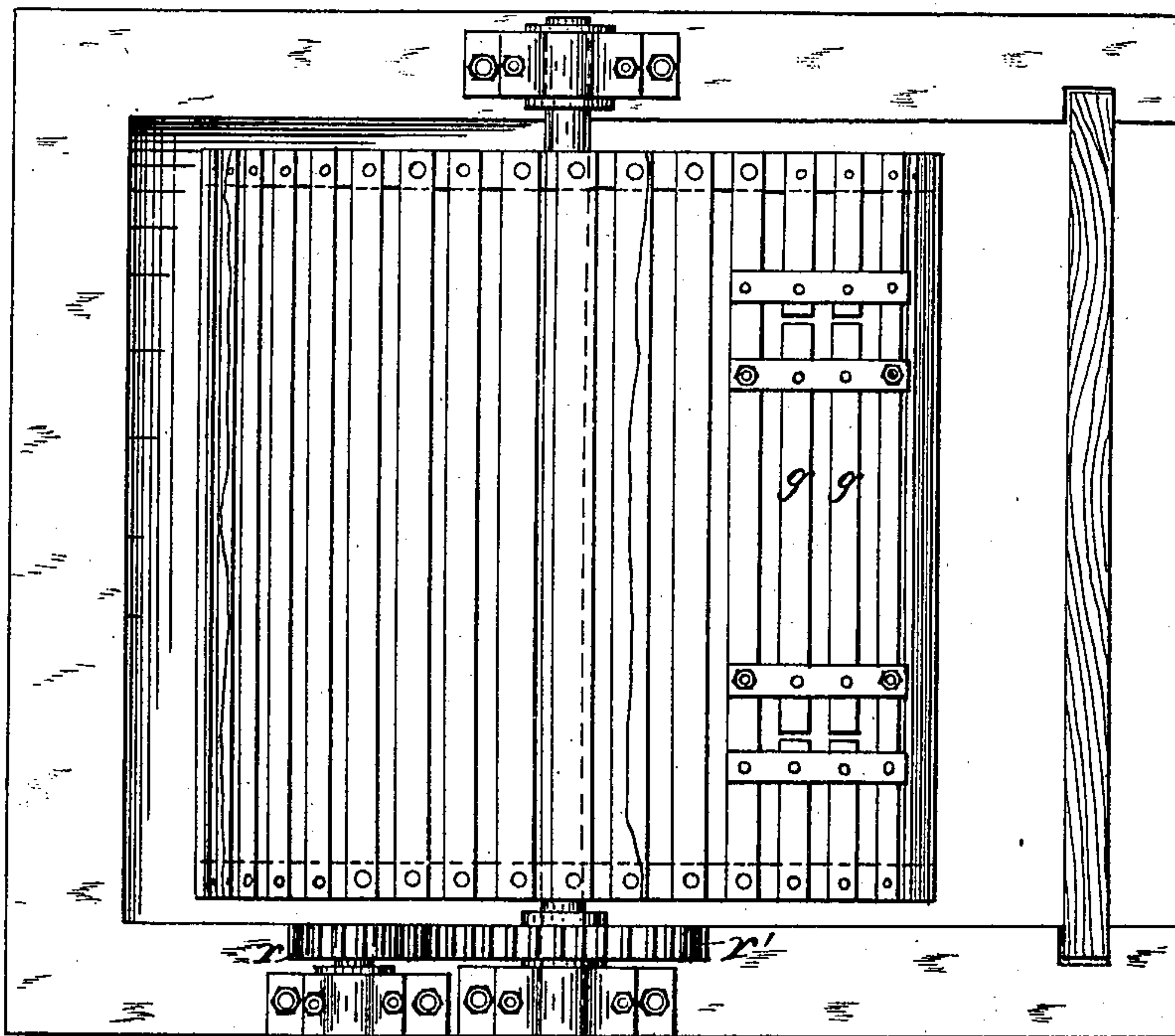


Fig. 2.

witnesses:

Gas. A. Richmond.

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# UNITED STATES PATENT OFFICE.

LEOPOLD WERTHEIM, OF CASSEL, GERMANY.

## APPARATUS FOR STRIPPING OFF BARK OF WOOD.

SPECIFICATION forming part of Letters Patent No. 615,771, dated December 13, 1898.

Application filed February 2, 1898. Serial No. 668,854. (No model.)

*To all whom it may concern:*

Be it known that I, LEOPOLD WERTHEIM, a subject of the King of Prussia, German Emperor, residing at 10 Bahnhofstrasse, Cassel, Germany, have invented certain new and useful Improvements in Apparatus for Stripping Off the Bark of Wood; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of the present invention is to provide a machine by which the bark can be removed from wood mechanically in a rapid, economical, and effective manner, as presently described and afterward particularly pointed out in the claim.

Figure 1 in the drawings shows the apparatus in a side view. Fig. 2 is a plan view of the apparatus.

The apparatus consists, mainly, of a drum A, whose mantle is formed by iron bars s, having the shape of a U turned toward the interior of the drum and being arranged equidistant from each other. Both walls on each side of the drum are made of strong sheets of iron. The edges of these sheets are bent round, or they can have the shape of a ring, and at the top of them are fixed the U-shaped iron bars. The drum is set into rotation by a wheel-strap and gearing r r'. At any suitable spot on mantle B are some iron bars g g g, arranged in such a way that some parts of them are forming a sort of a cover, which can be taken off for the purpose of supplying through this opening the interior of the drum with pieces of wood to be delivered from their bark and also to empty the drum. Above this apparatus there is the arrangement of a water-tap W, by which water is poured continually over the mantle of the drum in order to soak the wood thoroughly. After the drum has been filled with pieces of wood it is set into rotation, and the consequence is that all the pieces are rubbing, pushing, and hitting each other, being dashed chiefly against the edges of the U-shaped iron bars, to the

effect that the bark is removed from the wood. The former is allowed to escape through the spaces between each of two irons underneath the drum. On the outside of the mantle is fixed a scraper D, which after each rotation of the drum removes the bark that has fallen through the spaces underneath the apparatus out of the way. As the process of taking off the bark from the wood is completed the drum is then opened by lifting up the U-shaped iron parts g g g and the finished product is enabled to fall out while the drum is still turning round, or can be taken out with the hand. Any remains that perhaps could be left on the wood are taken away by a mechanism that can either be connected with the apparatus itself or may be arranged on the outside of it. This mechanism consists of brushes which are making a motion in the opposite direction to the pieces of wood brought between them, or they may be fixed or turning.

Having now particularly described and ascertained the nature of this invention and in what manner the same is to be performed, I declare that what I claim is—

In a machine such as described, the combination of a frame, a shaft journaled in bearings carried by said frame, a drum A rigidly mounted on said shaft and consisting of end disks and bars s placed equidistant from each other, connecting the peripheries of said disks and forming the mantle of the drum, said bars having inwardly-projecting U-shaped extensions, a door g for charging and discharging the drum, a water-supply, a scraper D provided on the outer periphery of the drum, and suitable means for imparting a revolving motion to said drum, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

LEOPOLD WERTHEIM. [L. S.]

Witnesses:

NATHAN AUT,  
CARL HIANCKEL.