(No Model.)

F. MERZIGER.

BARK PEELING MACHINE.

No. 300,996. Patented June 24, 1884.

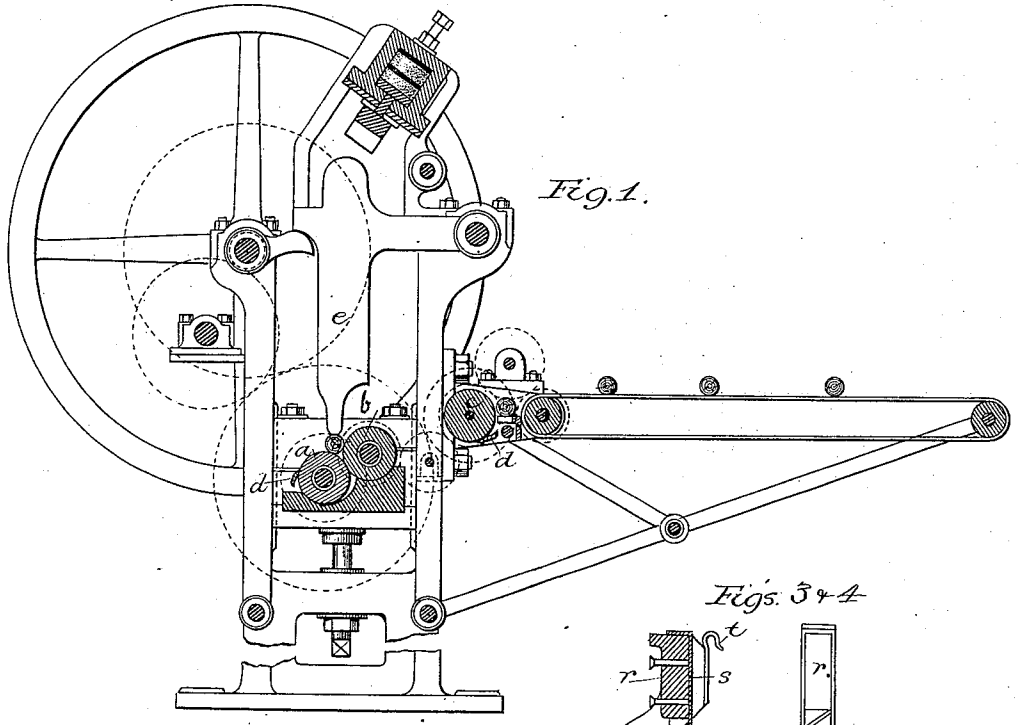


Fig. 1.

Figs. 3 & 4

Figs. 5. 6.

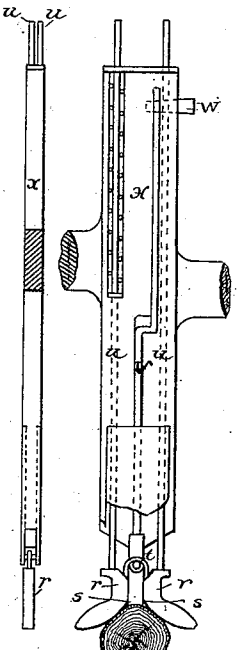
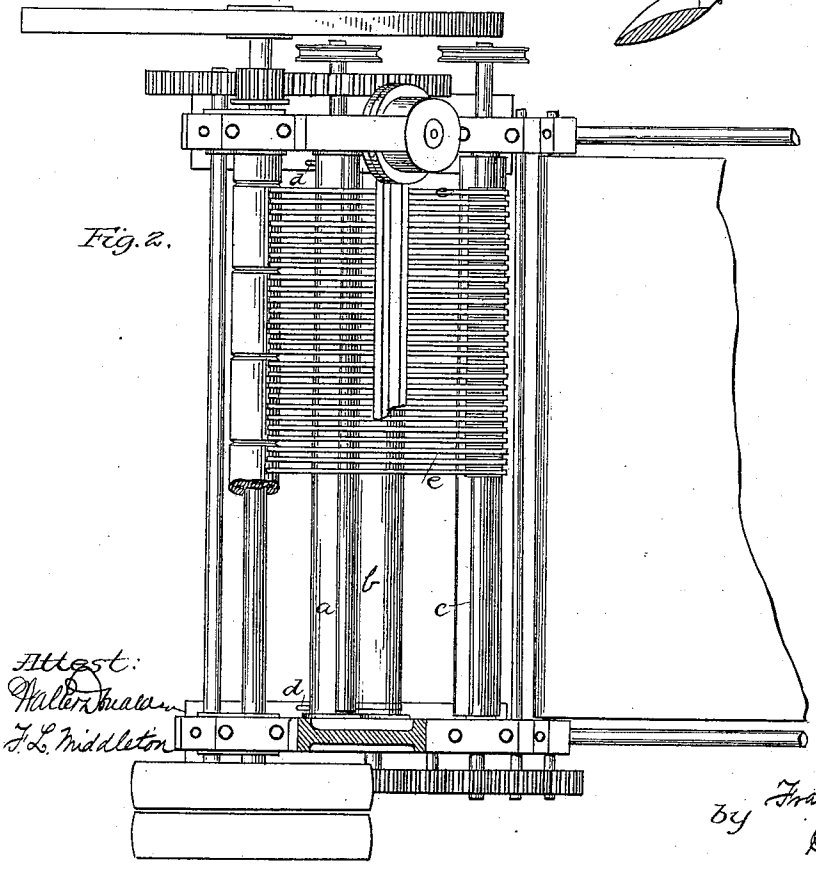


Fig. 2.



Attest:
Walter Bruce
F. L. Middleton

Inventor:
Franz Merziger
by Ellis Spear
Atty

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

FRANZ MERZIGER, OF TRIER, PRUSSIA, GERMANY.

BARK-PEELING MACHINE.

SPECIFICATION forming part of Letters Patent No. 300,996, dated June 24, 1884.

Application filed November 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANZ MERZIGER, of the city of Trier, in the Kingdom of Prussia and German Empire, have invented certain new and useful Improvements in Bark-Peeling Machines, of which the following is a specification.

My invention relates to improvements in bark-peeling machines for peeling the bark from trees of various kinds, which said trees or wood from which the bark is to be peeled are fed into the machine by means of endless straps or bands.

Figure 1 is a sectional side view of the machine. Fig. 2 is a top view or plan of the same. Figs. 3 to 6 represent the details of the construction.

My improved bark-peeling machine consists of three rollers, *a b c*, of which the feed-roller *c* and the delivery-roller *a* revolve with like rapidity. The rollers *a* and *b* revolve in the same direction. The rollers *a* and *c* are provided with noses or projections *d*, whereas the roller *b* is provided with corresponding recesses.

The trunk, tree, or part of a tree is fed to the roller *c* in any suitable manner—for instance, by means of an endless strap or band—is caught by the said roller *c* by means of the projections *d* on the same, and is thrown between the rollers *a* and *b*. As these two rollers *a* and *b* rotate in the same direction, the wood is caused to continuously rotate in the opposite direction, during which time the said wood is operated on by special devices applied for this purpose, and described later on in this specification, whereby the rollers *a* and *b* act as anvil or bearing surface or surfaces. As soon as the roller *a* has made one revolution, the projection or nose *d* to the same seizes the wood which has been operated on and removes the same from the said rollers *a* and *b*, so as to provide room for the next following wood, tree, or part of a tree. During the time that the wood is being continuously rotated by the said rollers *a* and *b* the same is operated on by a row of hammers *e* or cutters *s*, according to the quality or kind of wood operated on and the purpose to which the said bark is to be applied.

Figs. 3, 4, 5, and 6 represent one of the forms of the cutters and cutter-holders employed in my said bark-peeling machine. *x* is a hammer of like construction with the hammer represented in Fig. 1 and marked *e*, to the end of which said hammer *x* two cutter-holders, *r r*, are attached by means of suitable hooks, *t*.

Figs. 3 and 4 represent the cutter *s* and cutter-holder *r* on an enlarged scale. The cutter *s* is held in correct position in the cutter-holder *r* by means of suitable screws. Guide-rods *n* are attached to the cutter-holders *r* in order to correctly guide the said cutter-holders. If the hammer *x* is raised, the two cutter-holders *r r* approach each other; but as soon as the said hammer *x* is allowed to fall and strikes the wood to be operated on, the cutter-holders are forced apart, while the cutters *s* penetrate the bark and peel or cut the same from the wood.

The pivot on which the cutter-holders are hung is fixed in a rod, *v*, which said rod is adjustably connected to the hammer *x* by means of a suitable wedge. This rod *v* is adjustably attached to the said hammer, in order that the same may be raised by loosening the wedge *w*, so as to be able to unhook the cutter-holders *r* and cutters *s* with greater facility.

The guide-rods *u* are so connected to the cutter-holders *r* that the latter can be readily released from the same.

I do not claim the construction of the machine generally, as this is of ordinary construction, after the manner of machines of this class.

Having now described my said invention, what I desire to claim and secure by Letters Patent is—

In a bark-peeling machine, the combination of the rollers *a b c*, supported in suitable frame-work, and driven by suitable power, mechanism, substantially as described, for delivering the logs to the roller *c*, the projection on said roller adapted to throw the log to the rollers *a* and *b*, mechanism for operating on the bark of the log while being rotated by the revolution of the rollers *a b*, and the projection on the roller *a*, for removing the log when peeled, substantially as described.

FRANZ MERZIGER.

Witnesses:

FELIX V. D. WYNGAERT,

EDWIN A. BRYDGES.