

(No Model.)

M. NAUGHTON.

HOOP DRIVER.

No. 328,706.

Patented Oct. 20, 1885.

Fig. 1.

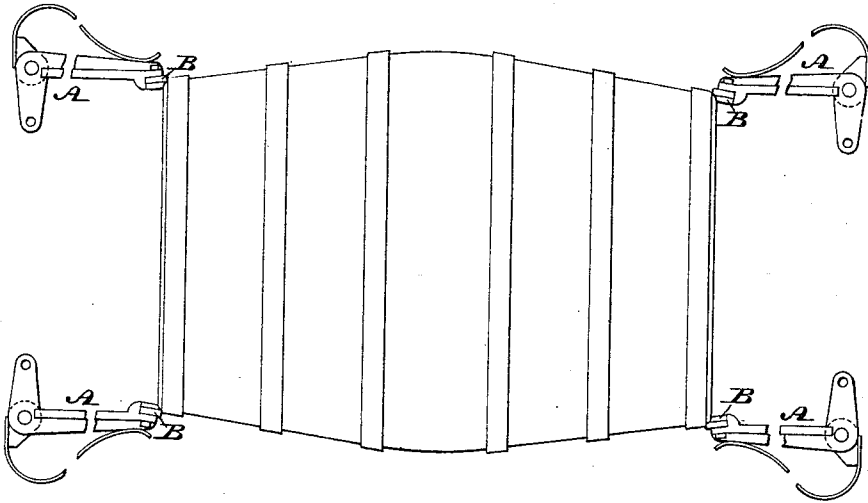


Fig. 2.

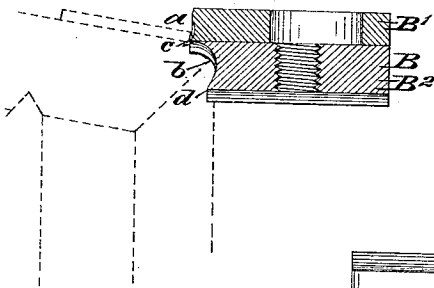


Fig. 3.

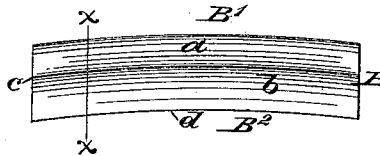


Fig. 4.

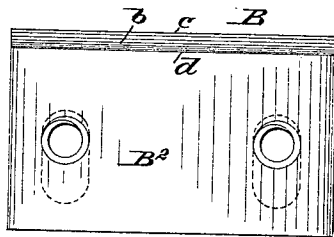
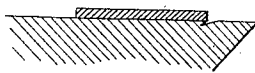


Fig. 5.



Witnesses:

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# UNITED STATES PATENT OFFICE.

MICHAEL NAUGHTON, OF PHILADELPHIA, PENNSYLVANIA.

## HOOP-DRIVER.

SPECIFICATION forming part of Letters Patent No. 328,706, dated October 20, 1885.

Application filed July 17, 1885. Serial No. 171,853. (No model.)

*To all whom it may concern:*

Be it known that I, MICHAEL NAUGHTON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Hoop-Driving Machines, which improvement is fully set forth in the following specification and accompanying drawings, in which—

10 Figure 1 represents a side elevation of a portion of a hoop-driving machine embodying my invention. Figs. 2, 3, and 4 represent, respectively, a section, front view, and bottom view of the hoop-driver. Fig. 5 represents a section of a portion of the barrel and hoop, 15 showing the cut behind the hoop.

Similar letters of reference indicate corresponding parts in the several figures.

20 My invention consists, essentially, in hoop-drivers for hoop-driving machines, whereby the hoop is more securely fastened when driven.

25 It also consists in making the driver adjustable, so that the depth of the chine may be regulated.

Referring to the drawings, A represents the arms of a hoop-driving machine, the same being of ordinary form and construction and properly connected to the machine.

30 B represents a jaw or driver, which is connected with an arm, A, and formed with a head, *a*, a recess, *b*, and cutting-edge *c*, and a cutting-edge, *d*, a number of said jaws being employed around a barrel, it being noticed 35 that the head *a* is adapted to be brought in contact with the chine-hoop to be driven, and the recess *b* receives the chine of a barrel and permits the advance of the driver. When the jaws are advanced, the hoop is properly driven 40 on the barrel, and the edge *c* cuts into the wood behind the hoop, (see Fig. 5,) thus forcing the wood against the inner face of the hoop, serving to wedge the same and hold it firmly in position. For driving bilge-hoops, 45 the wall of the recess *b* becomes the driver,

and the edge *d* cuts the wood similarly to the edge *c*.

In order to adjust the length of the driver, or adjust the position of the head *a* and recess *b* and cutting-edges *c d* relatively to each other, I 50 form the driver of two parts, B' B<sup>2</sup>, and connect the same by a set-screw, one of the parts having a screw-threaded opening, and the other a slot, whereby the parts may be moved 55 for the purposes of adjustment, and afterward securely connected as one, the screw employed being adapted to connect the driver with the arm.

Having thus described my invention, what I claim as new, and desire to secure by Letters 60 Patent, is—

1. In a hoop-driving machine, a jaw or driver having the head *a*, recess *b*, and cutting-edge *c* all on the same face, the said cutting-edge being between the said head and 65 the said recess, substantially as described.

2. A hoop-driver composed of two parts secured together, one of the said parts having a cutting-edge on one of its faces, and the 70 other part having a recess on the same face, substantially as described.

3. A hoop-driver composed of two parts adjustably connected, each of said parts having a cutting-edge on one of its faces, and one of 75 them having a recess on the same face as the cutting-edge, substantially as described.

4. A hoop-driver composed of two parts, B' and B<sup>2</sup>, the said part B' having a driving-head, *a*, and a cutting-edge, *c*, on the same 80 face, and the part B<sup>2</sup> having the recess *b* and the cutting-edge *d* on one of its faces, the said parts being adjustably secured so that the said cutting-edges, head, and recess are on the same face of the said driver, substantially as described.

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Witnesses:

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