G. V. Brecht,

Hub Clamp.

No. 78,922. Patented June 16, 1868.

Fig: 1.

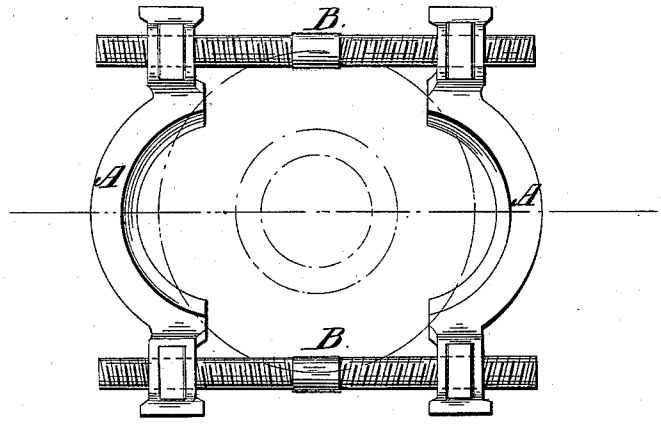


Fig: 2.

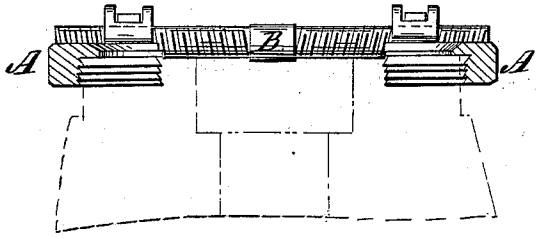
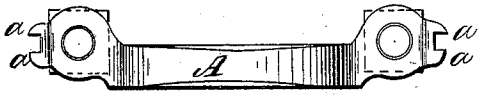


Fig: 3.



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GUSTAVUS V. BRECHT, OF ST. LOUIS, MISSOURI.

Letters Patent No. 78,922, *dated June* 16, 1868.

IMPROVEMENT IN CLAMP OF HUB-BORING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GUSTAVUS V. BRECHT, of St. Louis, in the county of St. Louis, and State of Missouri, have invented a new and useful Improvement in the Clamp of Hub-Boring Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a machine for boring out the centres of wagon-hubs, for fitting the boxes thereto; and it consists in the manner in which the clamps or jaws are formed by which the hub is held while the operation is being performed.

Figure 1 represents the clamps, attached together by screws, as when surrounding a hub.

Figure 2 is an edge view, showing a sectional side view of a wagon-hub, (in red,) with the clamp attached, the section being through the line *x x* of fig. 1.

Figure 3 is a detailed view of one of the clamps or jaws, showing the manner in which they are constructed.

Similar letters of reference indicate corresponding parts.

A represents the clamps or jaws.

B represents the screws by which the clamps are connected together.

As these clamps have been made heretofore, the screw-thread for the screws B to work in has been cut in the clamp itself, which, being of cast iron, soon wears out, consequently requiring new clamps when such cast-iron threads become useless.

My improvement consists in forming the clamps with slots or mortises through them, for the reception of wrought-iron or steel nuts for the screws to work in, thereby enabling me to renew the threads as often as may be necessary, without destroying the clamps.

The screws B have each a right and left-hand screw-thread on them, as seen in the drawing, so that, by turning them, the clamps are brought together around the hub.

Gear-wheels are applied to these screws, so that they turn simultaneously, and the clamps are supported and held in a frame.

The jaws marked *a*, fig. 3, enclose the inner edge of such frame.

This frame also supports the boring-mandrel.

As my invention consists in an improvement on the clamps of the machine, I have not deemed it necessary to show the whole machine, as the operation will be readily understood from the drawing and from the description.

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

As a new article of manufacture, a clamp, A, for a hub-boring machine, cast or formed with slots, for the reception of nuts, and provided with projections *a* and serrated edges, as and for the purpose set forth.

GUSTAVUS V. BRECHT.

Witnesses:

GEORGE THORNER,

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