

(Model.)

C. H. GUARD.  
Vehicle Wheel Hub.

No. 237,108.

Patented Feb. 1, 1881.

Fig. 1

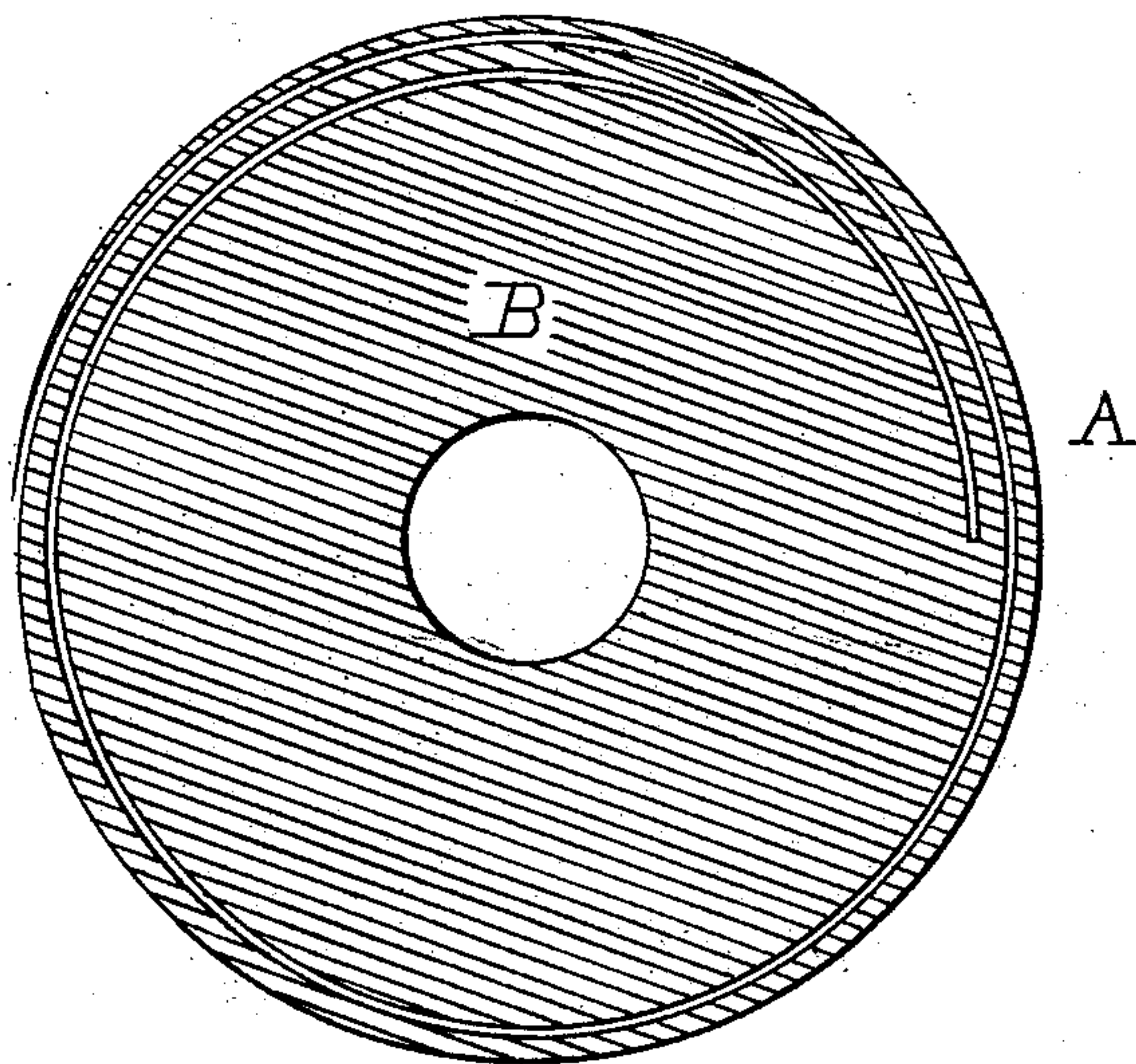
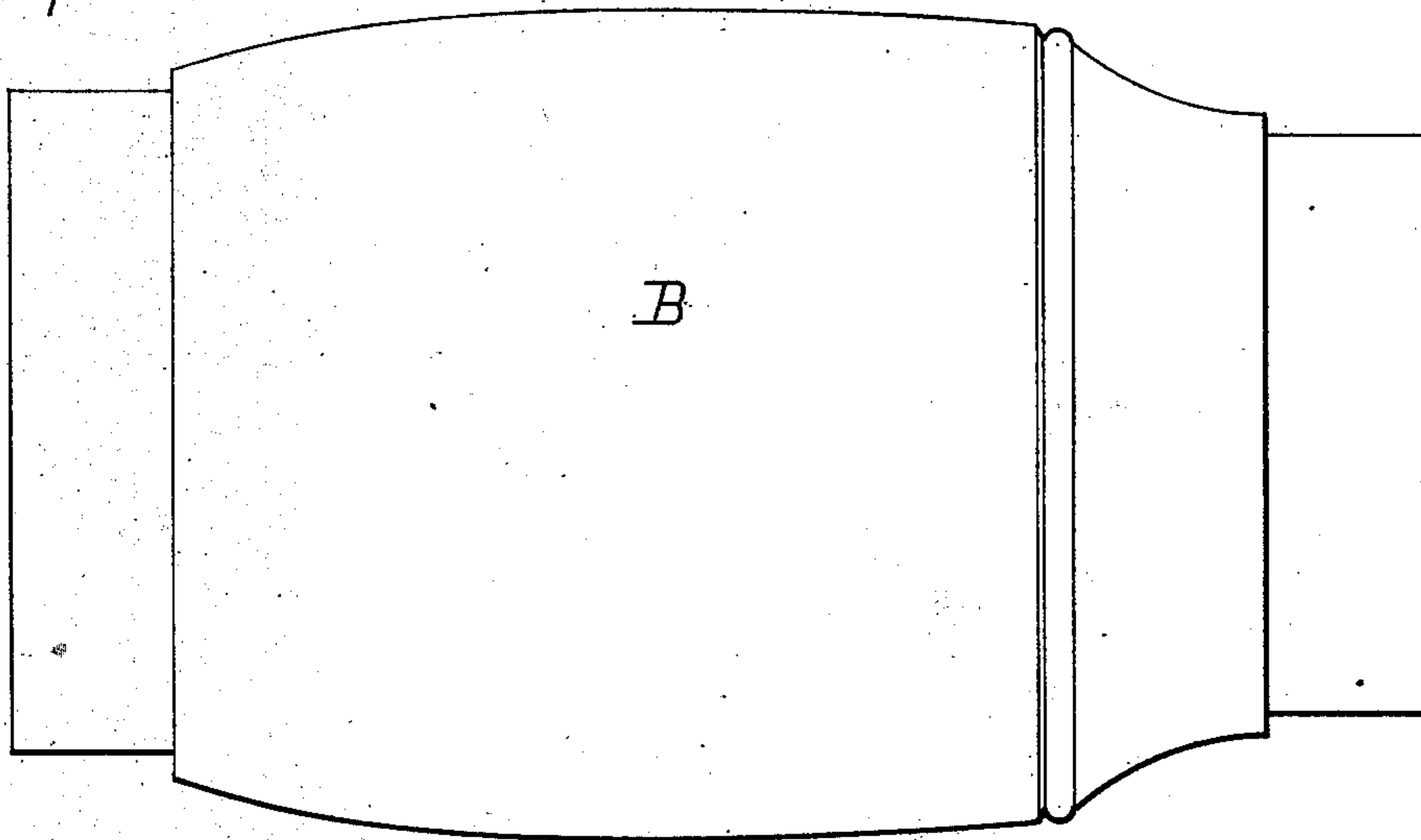


Fig. 2



WITNESSES

*B. Pickering  
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# UNITED STATES PATENT OFFICE.

CHAUNCEY H. GUARD, OF DAYTON, OHIO, ASSIGNOR TO S. N. BROWN & CO., OF SAME PLACE.

## VEHICLE-WHEEL HUB.

SPECIFICATION forming part of Letters Patent No. 237,108, dated February 1, 1881.

Application filed December 6, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, CHAUNCEY H. GUARD, of Dayton, Ohio, have invented an Improved Wooden Hub for Vehicles, of which the following is a specification.

The invention consists in separating the wood longitudinally and in spiral form about the circumference of the block, and then securing the separated parts by the use of water-proof or common glue, thus forming a solid block less liable to split than if not thus treated.

The accompanying drawings illustrate the invention, in which Figure I is a transverse section of the hub at the center of the same, and Fig. II is a side view of the hub.

B represents the hub, and in external form is like the ordinary wooden hub as used in carriage-wheels.

At A, Fig. I, is shown the spiral portion sawed from the block.

In the process of manufacturing the hub, the block should be of uniform diameter. The separation is then effected either by sawing or steaming the block and cutting the wood in spiral form. When thus prepared the separated part is secured by water-proof glue, and after which the block is put into the lathe

and the proper form is given, thus forming a hub having a solid interior and a laminated exterior.

Within the separated part may be placed a tough textile fabric, and then united by glue, as specified.

Numerous small perforations may be made in the separated parts, and these, being well filled with glue, would be an added strength.

A thin piece of wood prepared separately from the block may be secured to the block in any of the modes specified.

The separation of the wood may be continued to any desirable extent.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A wheel-hub made of solid and laminated wood, in the manner as specified, and for the purpose set forth.

2. A wheel-hub made of solid and laminated wood, with an intervening layer of textile fabric, in the manner substantially as and for the purpose set forth.

CHAUNCEY H. GUARD.

Witnesses:

B. PICKERING,  
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