(No Model.)

A. M. MOORE.

WOOD RIM PULLEY.

No. 309,079. Patented Dec. 9, 1884.

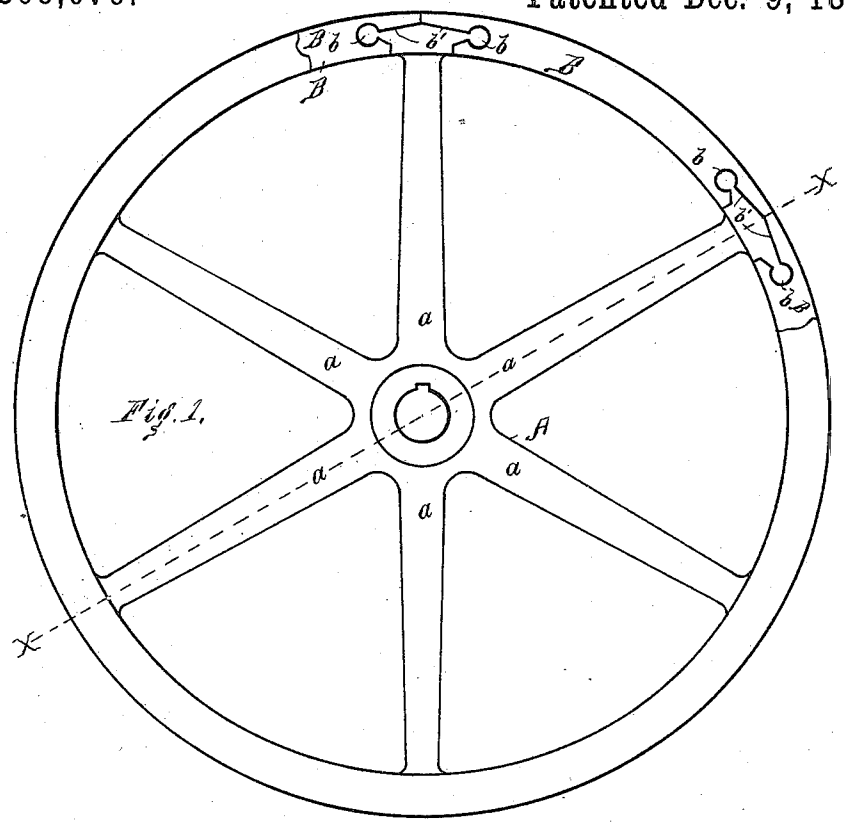
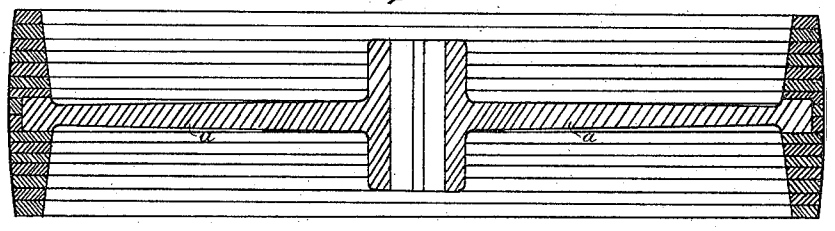


Fig. 1.

Fig. 2.



Witnesses—
John A. Lynch
Edward W. Thompson

Inventor—
Albert M. Moore.

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

UNITED STATES PATENT OFFICE.

ALBERT M. MOORE, OF LOWELL, MASSACHUSETTS, ASSIGNOR OF THREE-FOURTHS TO JAMES W. BENNETT, KIRKLEY HYDE, AND FREDERICK TAYLOR, ALL OF SAME PLACE.

WOOD-RIM PULLEY.

SPECIFICATION forming part of Letters Patent No. 309,079, dated December 9, 1884.

Application filed May 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALBERT M. MOORE, a citizen of the United States, residing at Lowell, in the county of Middlesex and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Wood-Rim Pulleys, of which the following is a specification.

My invention relates to that class of wood-rim pulleys in which the foundation-fellies and the outer ends of the spider-arms engage directly with each other and hold said foundation-fellies in place; and it consists in the construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a wood-rim pulley containing my improvement, a part of the outer fellies being broken away to show the outer ends of the spider-arms and the inner fellies; Fig. 2, a central cross-section of the same on the line X X in Fig. 1.

A is a metallic spider, preferably cast of iron in a single piece, and of any usual construction, except that the arms *a* have cast on their outer ends, at about right angles to the arms, projections consisting of cylindrical parts *b*, which are parallel with the axis of the pulley or its shaft, and which are connected to the arm by a web, *b'*, of less thickness where it joins the cylinder than the diameter of the cylinder. The outer and inner surfaces of the web are planes. Each end of each foundation-felly B is cut to receive a cylinder and web, and to reach half-way across the outer end of an arm to meet the adjacent foundation-felly.

It will be seen that the ends of the foundation-fellies may be prepared to receive the cylinders and wedges by straight and circular cuts, and that the work may be done without any hand-fitting, and without using patterns, the cylindrical opening through the felly being bored and sawed by a hollow cylindrical or barrel saw, and the straight parts being also sawed. The foundation-fellies when thus prepared are pressed firmly into place, and are prevented by the construction above described from moving on the arms in any direction except in the direction of the length of the cylinders, inasmuch as they almost entirely surround the curved surface of the cylinder. Lags or outer fellies are secured to the foundation-fellies in the usual manner by screws, preventing the foundation-fellies from moving lengthwise of the cylinders, and counteracting any tendency of the foundation-fellies to be split by shrinking onto the incompressible cylinders. Finally the rim is turned up true.

I claim as my invention—

1. The combination of the metallic spider provided at the outer ends of its arms with projections having enlarged ends, and the foundation-fellies having their ends cut to receive and fit said projections, as and for the purpose specified.

2. The combination of the metallic spider provided at the outer ends of its arms with projections consisting of a cylinder connected by a web to said arms, and the foundation-fellies cut to receive and fit said web and cylinder, as and for the purpose specified.

ALBERT M. MOORE.

Witnesses:
EDW. W. THOMPSON,
JOHN H. LYNCH.