(No Model.)

W. E. ROCKWOOD.

PAPER PULLEY.

No. 300,012. Patented June 10, 1884.

Fig. 1.

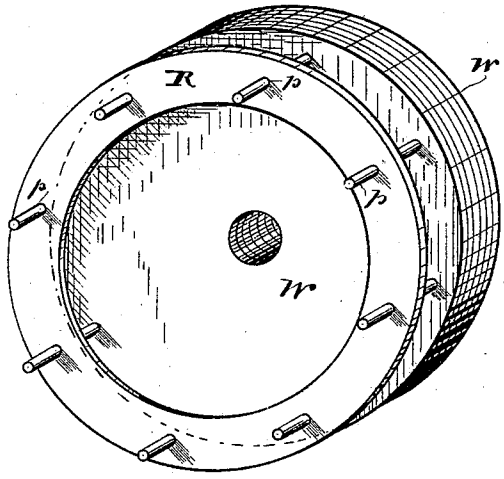


Fig. 2.

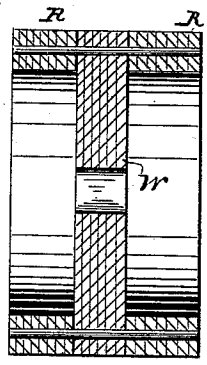
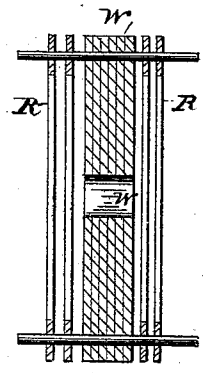


Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

WILLIAM E. ROCKWOOD, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO HORATIO C. NEWCOMB, OF SAME PLACE.

PAPER PULLEY.

SPECIFICATION forming part of Letters Patent No. 300,012, dated June 10, 1884.

Application filed April 30, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. ROCKWOOD, a resident of Indianapolis, Marion county, Indiana, have made certain new and useful Improvements in Paper Pulleys, a description of which is set forth in the following specification, reference being made to the accompanying drawings, in the several figures of which like letters indicate like parts.

My invention relates to the construction of pulley-wheels whose rim and web are made of layers of paper or similar material, and will be understood from the following description.

In the drawings, Figure 1 is a perspective view of the web with the pins through it and one of the rings being put on. Fig. 2 is a cross-section of a finished web and rim. Fig. 3 is a cross-section of the web and two rings on each side on the pins, ready to be pressed down in place.

In detail, W is the web, which is made of separate layers of paper or other similar material cemented and then compressed solidly together in a press. This web is made the full size of the pulley, as it forms the central portion of the rim, as shown in Fig. 2. When the web is sufficiently solid, it is taken from the press, the shaft-opening bored, and holes are also bored all around it and near the outer edges, and wooden pins *p* are driven through these holes, projecting on each side of the web the full width the rim is intended to be, as shown in Figs. 2 and 3. Rings of similar material, R, are then made from the stock, of any suitable thickness, holes bored in them at the proper points, and they are then slipped over the pins on each side, as shown in Fig. 3, cemented together, solidly united by pressure, and the rim is thus built out on either side the web to the required thickness, and the ends of the pins are then cut off, the wheel put upon the mandrel, turned down, and finished up, when it appears as shown in Fig. 2. The hub is not shown in the drawings, as any suitable hub may be used in mounting the pulley—for instance, one like the hub shown in Letters Patent No. 291,779, issued to me January 8, 1884.

What I claim, and desire to secure by Letters Patent, is the following, viz:

1. A pulley whose web is composed of successive layers of paper or other suitable material cemented and compressed solidly together, the web extended so as to form the central portion of the rim, the other portion formed by the addition of narrower rings or strips of a similar material laid on each side of the web parallel to the layers of the web, and cemented to each other and to the sides of the web, and the whole made solid by pressure, and further united by wooden pins passing through such rim layers and the web, substantially as shown and described.

2. The process of forming a pulley-wheel of paper or other similar material herein described, which consists of forming the web by the cementing together of successive layers of paper or other material and subjecting the same to pressure, and of forming the rim by cementing narrow rings or strips of similar material around and upon each side of the web at and extending below the edge, subjecting these also, with the web, to suitable pressure to unify them, and further securing the layers of the rim on each side of the web together and to the web by wooden pins passing through the several rim layers and through the web, substantially as and for the purpose described.

In witness whereof I have hereto set my hand this 25th day of April, 1884.

WILLIAM E. ROCKWOOD.

Witnesses:
C. P. JACOBS,
H. C. NEWCOMB.