

(No Model.)

E. B. MARTINDALE.  
PAPER WHEEL OR PULLEY.

No. 305,702.

Patented Sept. 23, 1884.

Fig. 1.

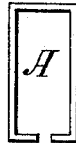


Fig. 2.

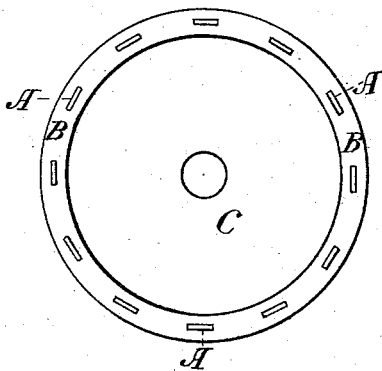


Fig. 3.

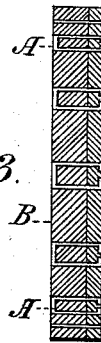


Fig. 4.

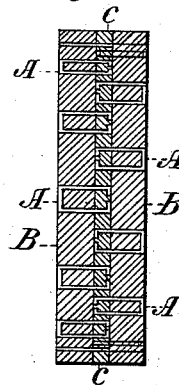
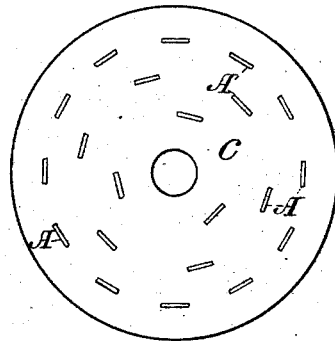


Fig. 5.



Witnesses :

Gustav Bohn  
Charles R. Nasson

Inventor.

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# UNITED STATES PATENT OFFICE.

ELIJAH B. MARTINDALE, OF INDIANAPOLIS, INDIANA.

## PAPER WHEEL OR PULLEY.

SPECIFICATION forming part of Letters Patent No. 305,702, dated September 23, 1884.

Application filed April 9, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, ELIJAH B. MARTINDALE, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in the Construction of Paper Wheels or Pulleys, of which the following is a specification.

My said invention consists in a new method of securing the sheets or disks of paper composing the wheel together, whereby they are strengthened and held together without the use of bolts or wooden dowels, as will be hereinafter more particularly set forth. In the construction of such paper wheels and pulleys under my Patents Nos. 266,708 and 266,709 the paper, pasteboard, or other like material is pasted together, under pressure, in disks, as are the rings for building of the rim or face of the wheel, and these disks and rings are repasted and secured together by means of bolts and rivets and iron flanges, as therein described. By this invention I dispense with the use of such bolts and flanges, and in lieu thereof secure the sheets of paper or disks and rings of paper composing the wheel together by means of such paste and pressure, and use fastenings of wire, which may be made in the shape of a clevis, as shown in Figure 1, marked A. This wire clevis is driven each end through a separate hole made in the paper rings and disk, and riveted with the paste

and pressure to the opposite side of the disk, as shown in Figs. 2 and 3, Fig. 2 being a front view, and Fig. 3 being a sectional view, of the face of the rim, A representing the clevis, B the rim or face, and C the disk. These wire fastenings may go clear through the rings and disk, forming the face of the wheel when the face is a narrow one; or they may go through the rings on one side only and riveted to the disk, and then in like manner through the rings on the other side and riveted to the disk, as shown in Fig. 4. If little or no rim is required upon the disk, as is often the case with a narrow-faced wheel—as where the same is used for the base of an emery-wheel, the wire clevises may be driven from one side and fastened upon the other. The wheel or pulley, when made, will appear as shown in Fig. 5.

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

1. Combined with the disks of a paper wheel fastenings of wire, substantially as described.

2. Wire loops for securing together the parts composing paper wheels, substantially as described.

Witness my hand, at Indianapolis, Indiana, March 29, 1884.

ELIJAH B. MARTINDALE.

Witnesses:

GUSTAV BOHN,  
CHARLES K. WASSON.