(No Model.)

R. W. BETTS.

PULLEY.

No. 318,686. Patented May 26, 1885.

Fig. 1.

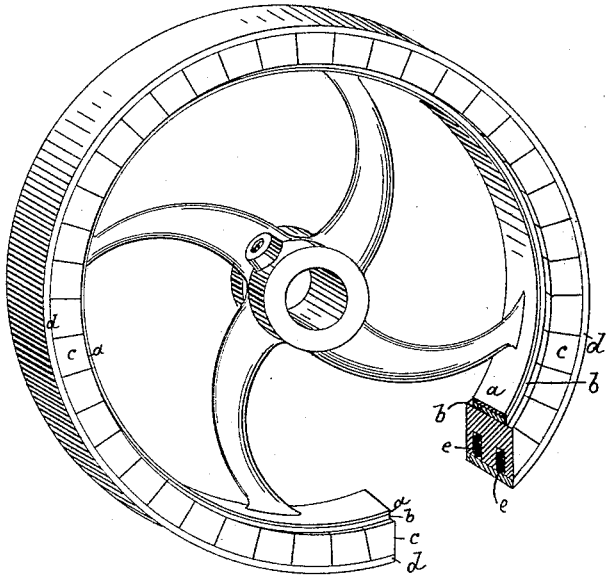
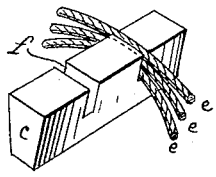


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

ROBERT W. BETTS, OF MONTCLAIR, NEW JERSEY.

PULLEY.

SPECIFICATION forming part of Letters Patent No. 318,686, dated May 26, 1885.

Application filed January 22, 1885. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. BETTS, residing in Montclair, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Pulleys, of which the following is a description in such full, clear, concise, and exact terms as will enable any one skilled in the arts to which my invention belongs or to which it is most nearly connected to make and use the same, reference being had to the accompanying drawings, making part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of said drawings is a perspective view of a pulley having my invention applied thereto, and Fig. 2 is a perspective view of a detail part thereof.

This invention is intended as an additional improvement upon the improvement in pulleys for which a patent was granted to me and William Howie October 11, 1875, and reissued December 28, 1875, being numbered 6,822 of reissued patents. That invention consists of a facing or covering of paper applied, cemented, or glued to the drawing-surface of a pulley for the purpose of keeping it from slipping and increasing its drawing power.

My present invention consists of a facing or sheathing of wood or other suitable material applied and glued or cemented to the paper facing, and having a paper facing or covering applied to the outside or surface of the wood sheathing, the object being to furnish a ready means of enlarging the diameter of the pulley and for extending the width of its driving or belt surface.

In the practice of this improvement I apply the paper to the surface of the pulley substantially as described in the patent above alluded to. I then make segments of wood, substantially as shown in Fig. 2 of the drawings, of the desired length and thickness, and glue them to the paper surface of the pulley, covering its entire circumference with such segments. When the glue has dried sufficiently to hold the segments firmly in place, I put the pulley in a lathe or other suitable apparatus, and turn down the wood sheathing to the designed width and diameter, after which I apply a facing or covering of paper to the surface of the wood sheathing in a manner substantially the same as that applied to the metal surface of the pulley. The rim of the metal pulley is illustrated by *a*, Fig. 1, the paper facing by *b*, the wood segments by *c*, and the external paper covering by *d*.

In some cases in applying the segments of wood to the circumference of the pulley I cut creases or channels in them, as shown by *f*, Fig. 2, and draw and glue the cords *e e e* in such channels, for the purpose of more firmly holding said segments together and to the surface of the pulley.

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

1. The combination of a paper covering, *b*, and a segmental covering, *c*, with the rim *a* of a pulley, substantially as described.

2. The combination of a paper covering, *d*, a segmental sheathing, *c*, with an external coating of paper, *b*, with the rim *a* of the pulley, substantially as described.

3. The combination of a segmental covering, *c*, provided with the grooves *f*, and the cords *e e*, with the rim *a* of a pulley, substantially as described.

ROBT. W. BETTS.

Witnesses:

AMOS BROADNAX,

J. EDGAR BULL.