(No Model.)

W. N. SCHINDLER & W. MIKEL.

BUSHING FOR SHAFT PULLEYS.

No. 392,369. Patented Nov. 6, 1888.

Fig. 1.

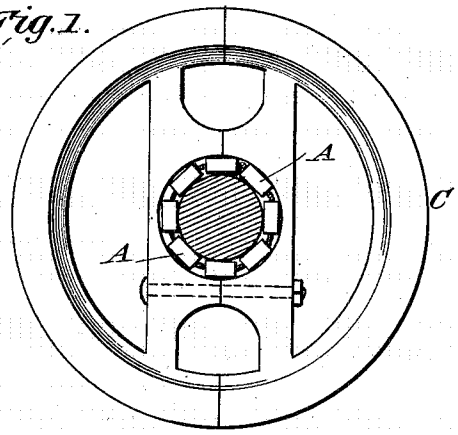


Fig. 4

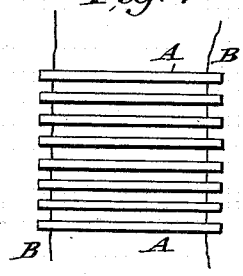


Fig. 5.

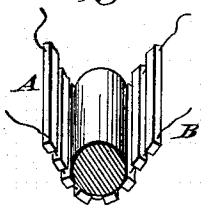


Fig. 2.

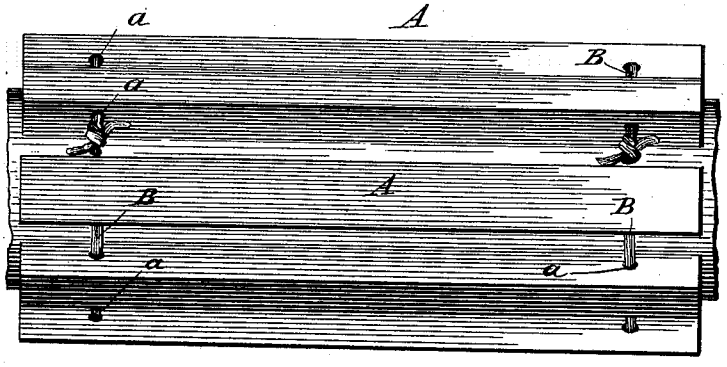
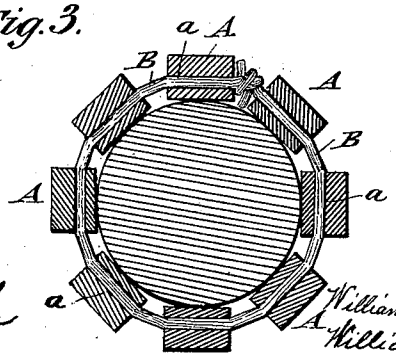


Fig. 3.



WITNESSES:

Fred G. Dieterich

J. Hall Mister.

INVENTOR,

William N. Schindler.

William Mikel

BY

Munn & Co

ATTORNEY.

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

UNITED STATES PATENT OFFICE.

WILLIAM N. SCHINDLER AND WILLIAM MIKEL, OF MISHAWAKA, INDIANA.

BUSHING FOR SHAFT-PULLEYS.

SPECIFICATION forming part of Letters Patent No. 392,369, dated November 6, 1888.

Application filed May 11, 1888. Serial No. 273,630. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM N. SCHINDLER and WILLIAM MIKEL, of Mishawaka, in the county of St. Joseph and State of Indiana, have invented a new and useful Improvement in Bushings for Shaft-Pulleys, of which the following is a specification.

This invention contemplates certain improvements in bushings for shaft-pulleys, having for its object to cheaply and readily furnish a bushing for shaft-pulleys and to effect the ready and quick replacement of a worn-out bushing, as also to speedily contrive such bushing; and to these ends the nature of the invention consists of the formation or construction of the bushing from a series of slats or bars strung in position, so as to permit of the application thereof to a shaft and the fitting thereon of the pulley or pulley-sections, substantially as hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure 1 is an end elevation of our improved bushing applied to a shaft and pulley. Fig. 2 is a side elevation. Fig. 3 is a sectional elevation thereof, and Figs. 4 and 5 are detail views of the same.

In the organization of our invention we take a number of previously-prepared slats or bars, A A, and string them upon connecting mediums B B, which are passed through apertures *a a*, made in the slats or bars near their ends. The connecting mediums B B are tied or otherwise fastened together at their ends, which, with the bushing thus formed and applied to the shaft, will hold the same thereon. The slats or bars are made angular in cross-section, and not rounding or fluted, securing thereby greater frictional contact between, and thereby imparting to the same a firm grip upon, the shaft and pulley. They can be made of wood or metal or any composition capable of sustaining the requisite strain or pressure, thereby providing for the ready or easy getting up of a cheap bushing for shaft-pulleys, thus economizing expense and time; also, in order to increase or diminish the diameter of the bushing, it is only necessary to add to or take from the number of slats or bars A according to the diameter of the shaft, while of course the thickness of the individual slats or bars is regulated by the diameter of the pulley opening or bore.

No waste of material is experienced in preparing the slats or bars, as no grooving, fluting, or curving is required to effect the shaping or conformation thereof to the shaft or to the bore of the pulley, said slats or bars in their assembled form accommodating themselves to and firmly gripping the parts in contact therewith, as before stated.

The connecting mediums B B may be of wire, cord, leather, or other suitable material.

In applying the bushing for use the slats or bars already placed upon the stringers are disposed upon the shaft, and after tying or securing together the ends of the connecting mediums are suitably moved or spaced apart, when the pulley is clamped thereon.

The pulley C, being divided, has its parts clamped in the usual way upon the bushing.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a shaft-pulley bushing consisting of connecting mediums united at their ends, and of slats or bars strung upon said mediums at short intervals apart, and having their narrower sides presented toward each other, while one of their broader plain or flat surfaces is presented inwardly, substantially as set forth.

2. The shaft-pulley bushing consisting of a series of wooden slats or bars and wire-connecting medium, passed through the slats or bars and connected together at the ends, substantially as set forth.

WILLIAM N. SCHINDLER.
WILL. MIKEL.

Witnesses:
J. W. KUHN,
D. L. P. CLEM.