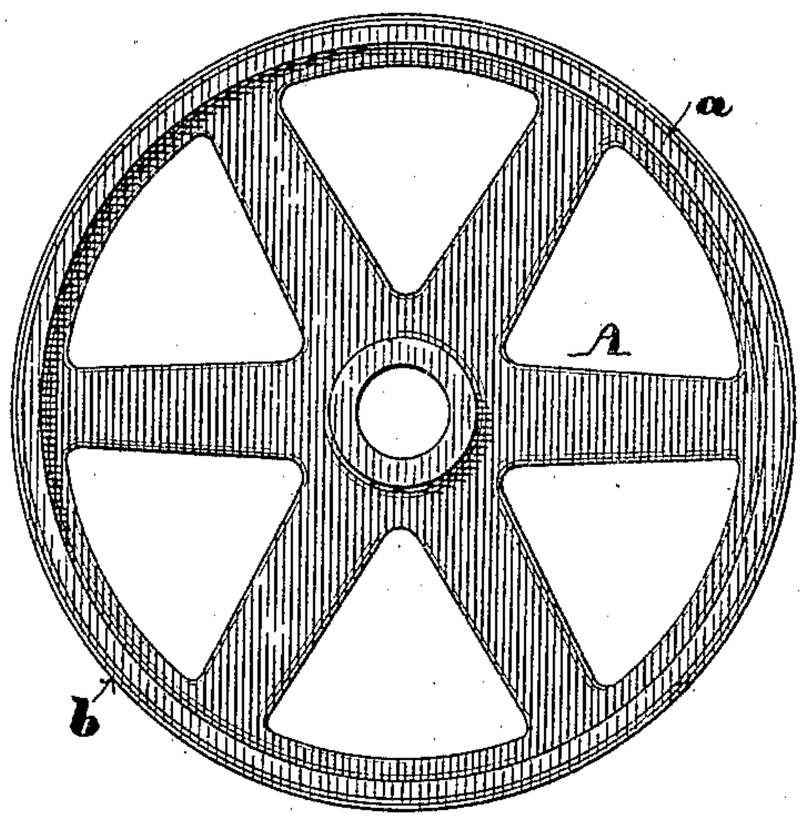
(No Model.)

G. SNEDDEN.

PULLEY.

No. 395,669. Patented Jan. 1, 1889.



Witnesses:
Walter E. Lombard.
J. H. Preble

Inventor:
George Snedden,
by N. D. Lombard
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE SNEDDEN, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, OF TWO-THIRDS TO JAMES BRENNAND, OF SAME PLACE, AND COVEL & OSBORN, OF FALL RIVER, MASSACHUSETTS.

PULLEY.

SPECIFICATION forming part of Letters Patent No. 395,669, dated January 1, 1889.

Application filed August 28, 1888. Serial No. 283,977. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SNEDDEN, of New Bedford, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Pulleys, of which the following, taken in connection with the accompanying drawing, is a specification.

In running machinery by means of leather belting a great deal of trouble is often experienced on account of the slipping of the belt upon its pulleys, and many expedients have been resorted to to remedy this evil, but with very imperfect and unsatisfactory results.

To reduce to a minimum the liability of the belt to slip upon the pulley is the object of my invention; and it consists in a pulley having its peripheral surface coated first with a composition of Venice turpentine, glue, and acetic acid, and over said coating another coating of a composition made up of white lead, dry shellac, and pulverized chalk ground in alcohol.

The drawing represents a side elevation of a pulley illustrating my invention.

In the drawing, A is the pulley, made of metal in the usual manner. *a* is the primary coating, and *b* is the final or finishing coating.

In the preparation of pulleys according to my invention I first mix Venice turpentine and glue in about the proportions of two parts of turpentine and five parts of glue with a sufficient quantity of acetic acid to thin it to the proper consistency, and then spread it upon the periphery of the pulley with a brush and allow it to harden. I then prepare the other composition by mixing about equal parts of white lead, dry shellac, and pulverized chalk with sufficient quantity of alcohol, and grind these ingredients in a mill, and then spread this composition upon the pulley over the coating previously applied thereto, and permit said second coating to harden, when the pulley is ready for use. When applied as described, these coatings adhere firmly to the pulley-rim and will wear a great while, and the adhesion of the belt to the pulley is very materially increased, and when worn off it can readily be renewed.

It should be understood that it is essential that the face of the pulley should be thoroughly cleansed before applying thereto the first coating.

The proportions of the ingredients of the two compounds may be varied considerably from those given with fairly good results, and therefore I do not wish to be limited to the exact proportions of ingredients here given.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

A pulley having its peripheral face covered with a compound of Venice turpentine, glue, and acetic acid, and over said primary coating a coating of a compound of white lead, shellac, and pulverized chalk.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 25th day of August, A. D. 1888.

GEORGE SNEDDEN.

Witnesses:
H. J. BROWNELL,
JOSEPH P. DA TERRA.