

No. 847,249.

PATENTED MAR. 12, 1907.

E. GRANBERG.
PULLEY.

APPLICATION FILED OCT. 23, 1906.

FIG. 1.

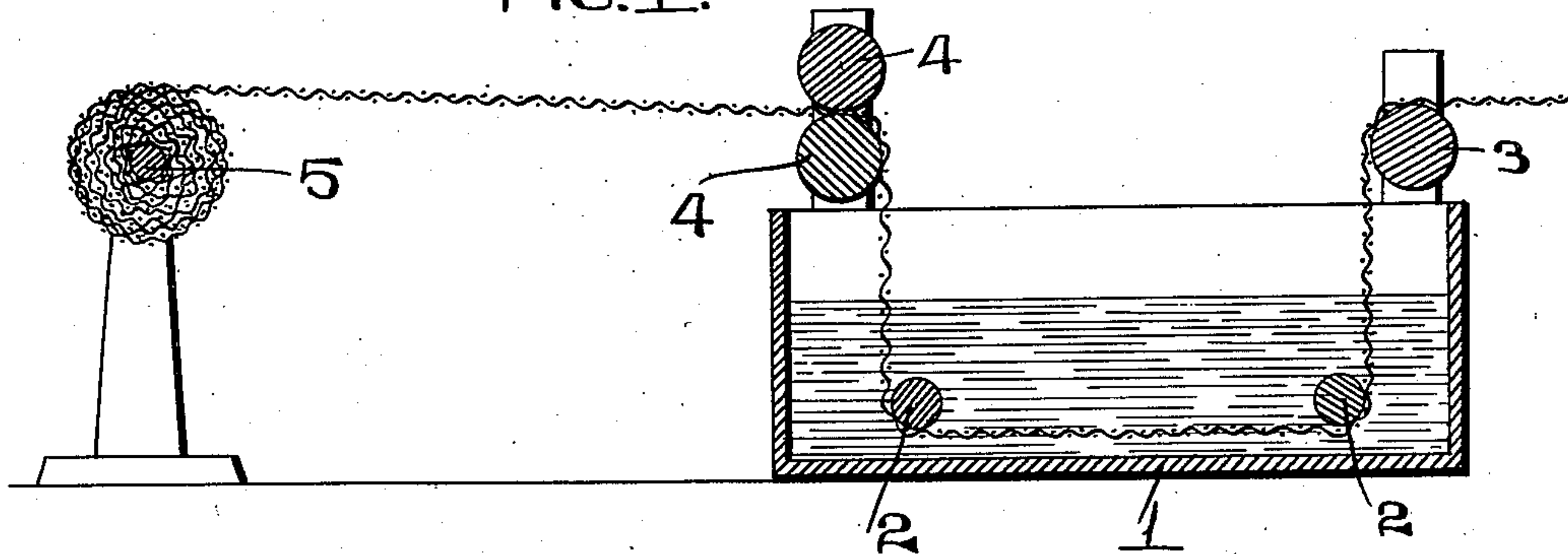


FIG. 2.

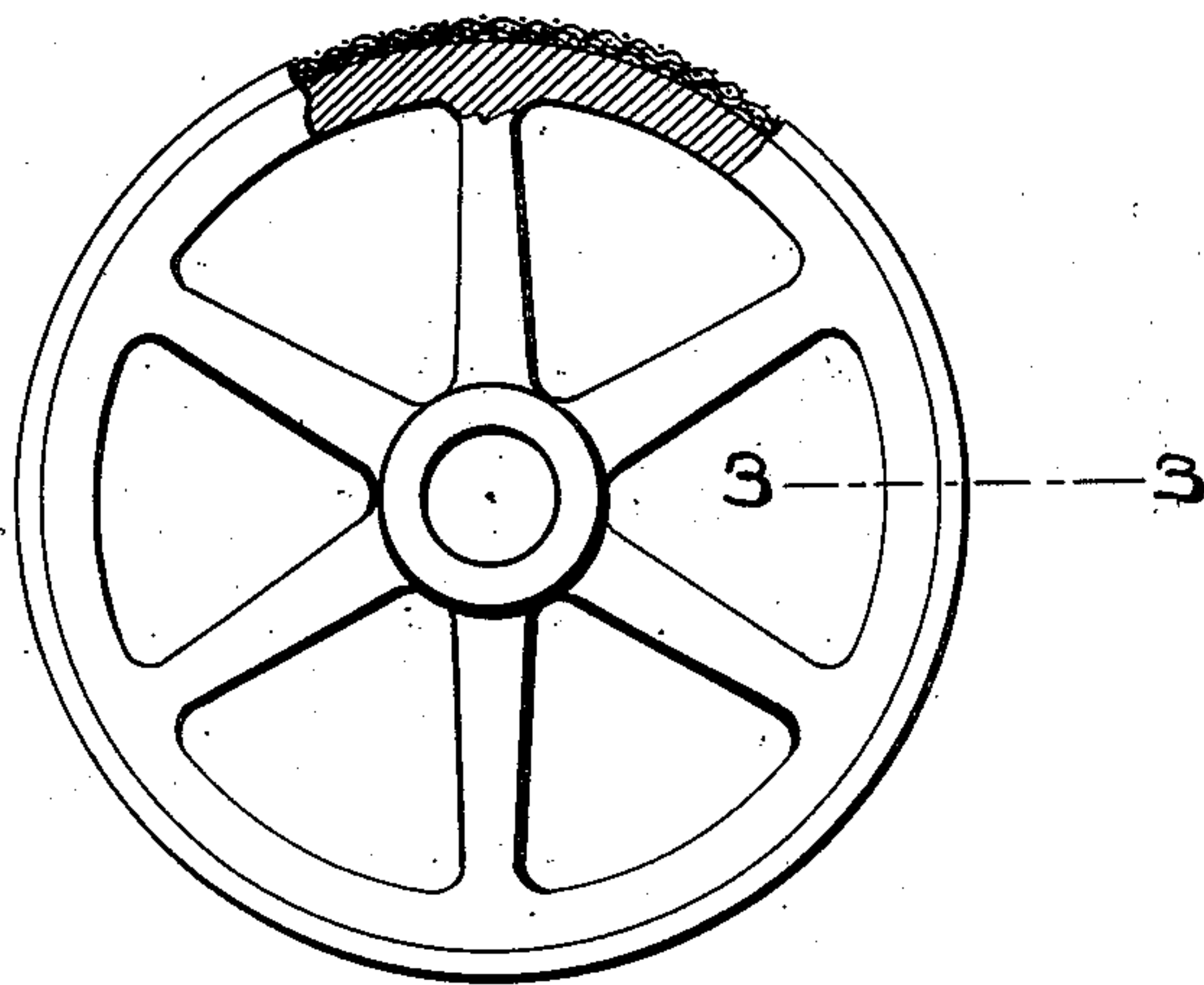
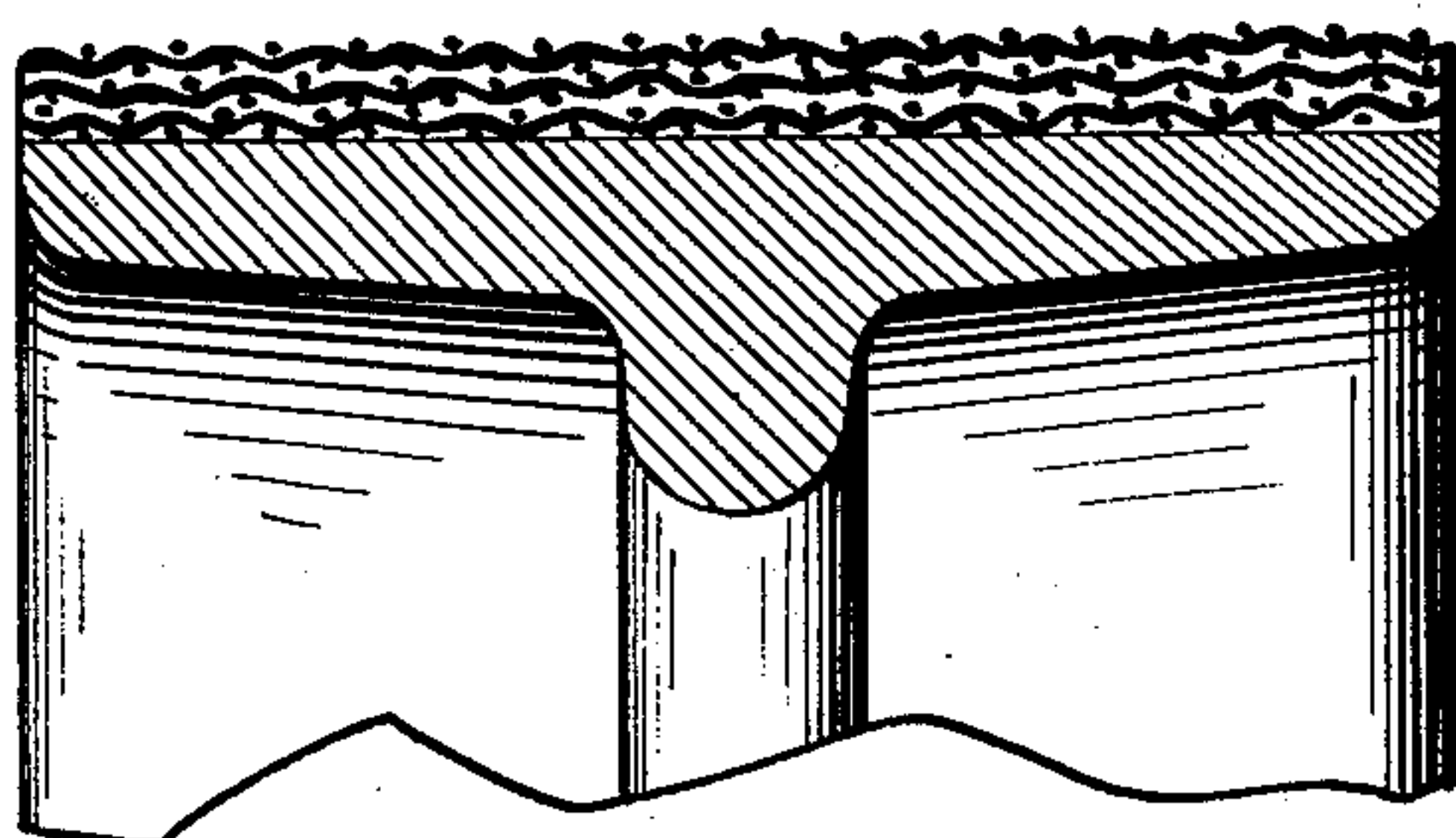


FIG. 3.



ATTEST:-

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EMIL GRANBERG, OF ST. LOUIS, MISSOURI.

PULLEY.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EMIL GRANBERG, a citizen of the United States, and a resident of St. Louis, Missouri, have invented certain new and useful Improvements in Pulleys, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to an improved pulley-covering, the object of my invention being to provide a covering for the peripheries of metal and wood pulleys, which covering will adhere firmly to the surface on which it is placed and which will provide an elastic surface for the belt to engage upon as it travels around the pulley, and which elastic surface prevents the slipping of the belt on the pulley by reason of the adhesive properties of the covering.

My invention consists of flexible fibrous material which is thoroughly soaked and saturated with a compound of various ingredients hereinafter specified and claimed.

In the drawings, Figure 1 is a vertical section taken through the center of the apparatus used for saturating the flexible material used for the covering. Fig. 2 is an elevation, partly in section, of a pulley having its periphery provided with my improved covering. Fig. 3 is an enlarged detail section taken on the line 3 3 of Fig. 2.

In the manufacture of my improved covering I take strips of flexible fibrous material, such as canvas or other heavy cloth, and thoroughly saturate said strips with a compound each pound of which comprises the following ingredients in approximately the proportions stated—viz., pine tar, four ounces; white resin, seven ounces; neat's-foot oil, three ounces, and gum-arabic, two ounces.

In Fig. 1 I have shown a simple apparatus, which may be used in the manufacture of the covering and which comprises a tank 1, in which the ingredients of the compound, as stated, are placed and in which they are thoroughly mixed while heated. Transversely arranged in the lower portion of the tank and adjacent the ends thereof are rollers 2, and above one end of said tank is a roller 3. At the opposite end of said tank is a pair of rollers 4, and located a suitable distance

away from these rollers is a spindle 5. The strips of material to be saturated pass slowly over the roller 3, through the compound in the tank 1, and beneath the rollers 2 therein and from thence between the rollers 4, which act as wringers to squeeze the excess compound from the fabric, and from thence the strips are wound onto the spindle 5 and in such condition may be stored away until used. The strips so treated are wound on the surface of the pulley and when so positioned form an elastic covering for the periphery of the pulley, which covering has certain adhesive properties, due to the presence of the compound, which very effectually prevent any slipping of the belt in passing around the pulley.

A pulley-covering as contemplated by my invention is simple, inexpensive, easily manufactured, and will retain its position on the surface of the pulley to which it is applied.

By winding narrow strips of the covering on one edge of a pulley the belt will be caused to travel toward said edge, owing to the fact that the belt always travels on the highest portion of the pulley, and by adding a number of layers of the covering to the periphery of a pulley on the driving-shaft the speed of the belt traveling on said pulley is correspondingly increased, owing to the increase of the circumference of the pulley.

I claim—

1. A pulley-covering, comprising a section of flexible fibrous material saturated in a compound of pine tar, white resin, neat's-foot oil, and gum-arabic, combined in approximately the proportions herein specified.

2. A covering for pulleys, comprising a series of superimposed layers of flexible fibrous material arranged on the periphery of the pulley, which layers of material are saturated in a compound of pine tar, white resin, neat's-foot oil, and gum-arabic, combined in approximately the proportions stated.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

EMIL GRANBERG.

Witnesses:

M. P. SMITH,
E. L. WALLACE.