

(No Model.)

J. STANLEY.
BELT DRIVING PULLEY.

No. 318,519.

Patented May 26, 1885.

Fig. 1.

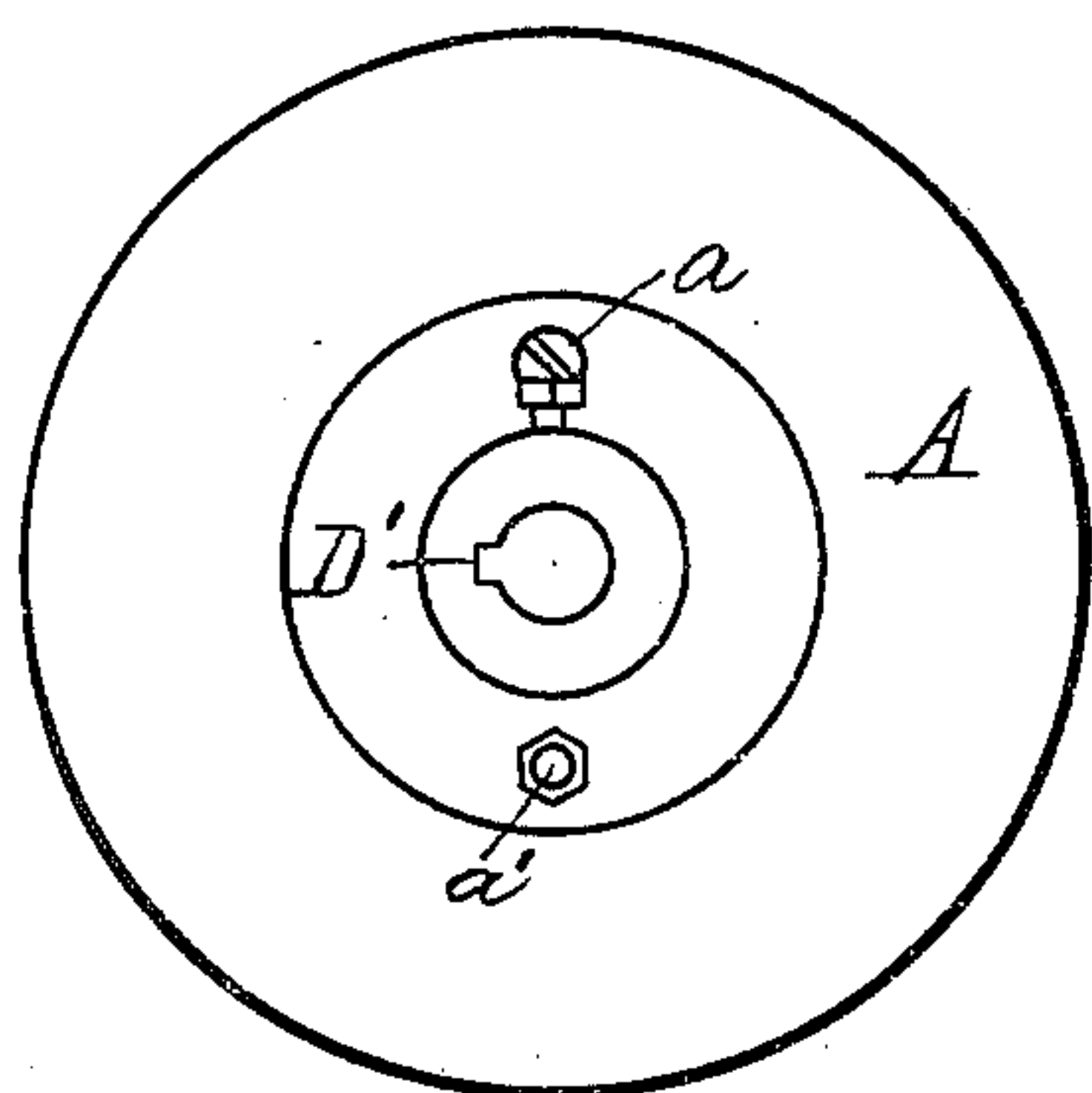


Fig. 2.

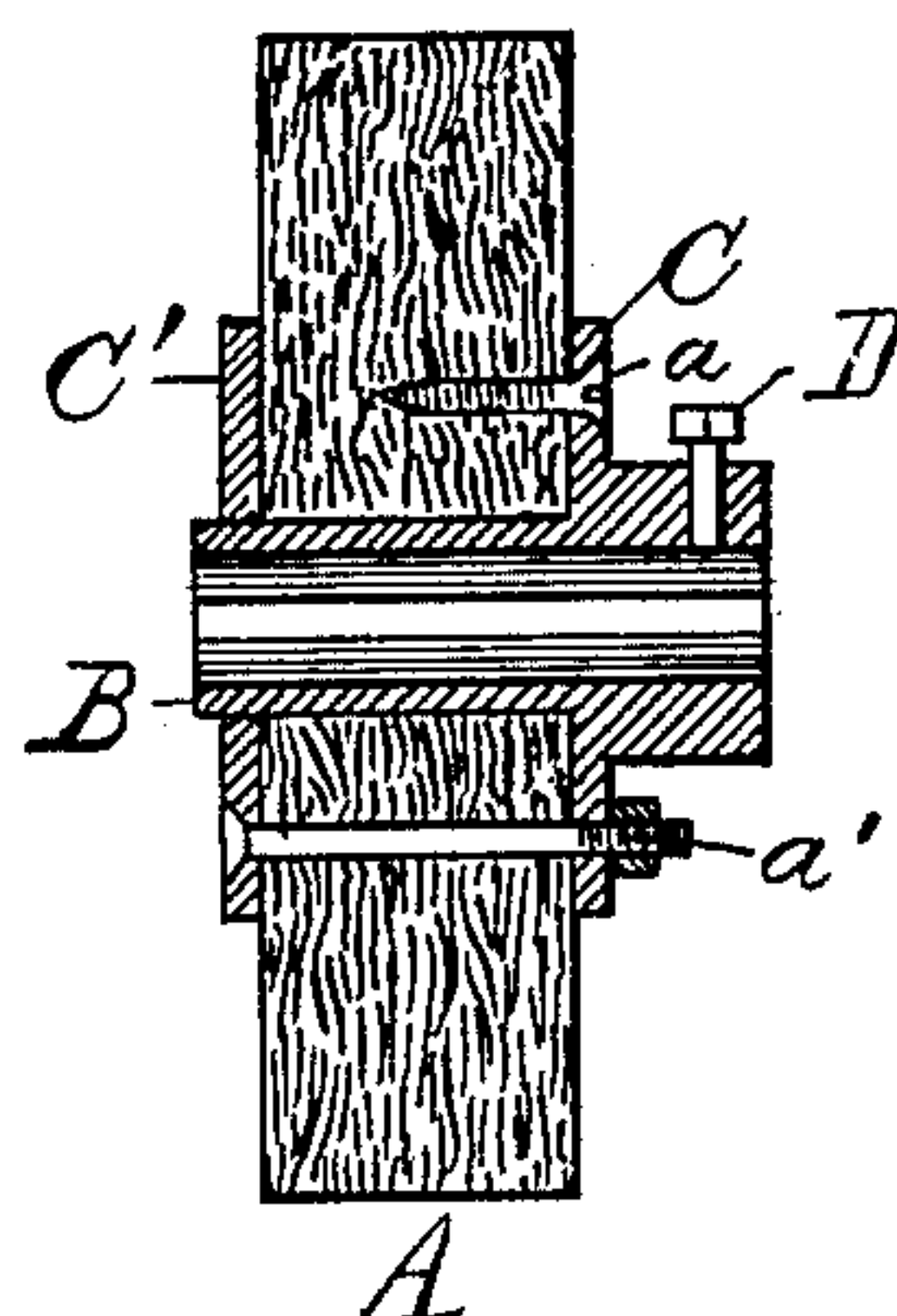
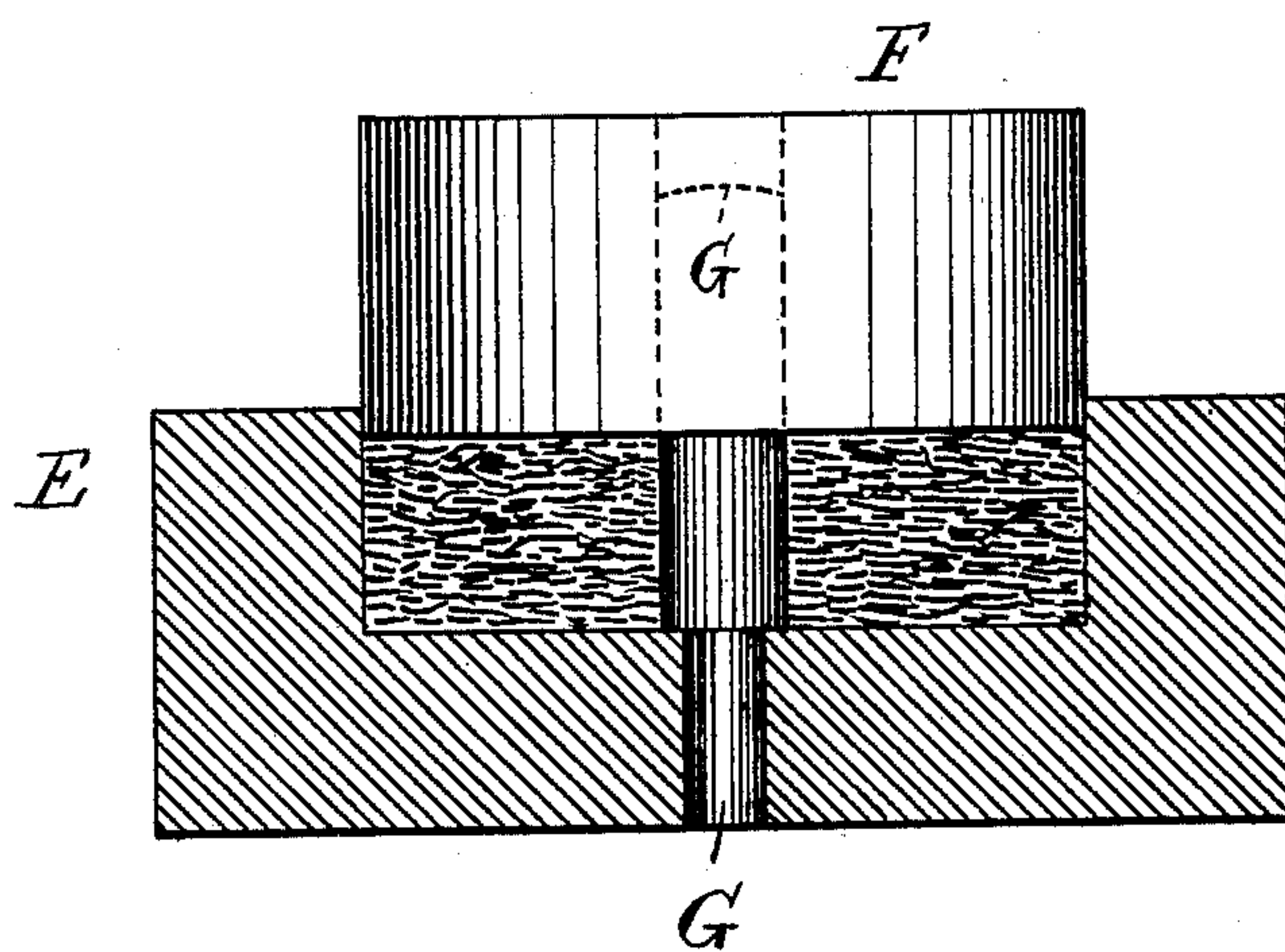


Fig. 3.



Attest

H. J. Theberath.
L. Lee.

Inventor.

James Stanley per
Thos. S. Crane, Atty.

UNITED STATES PATENT OFFICE.

JAMES STANLEY, OF NEWARK, NEW JERSEY, ASSIGNOR TO HENRY CONGAR, OF SAME PLACE.

BELT-DRIVING PULLEY.

SPECIFICATION forming part of Letters Patent No. 318,519, dated May 26, 1885.

Application filed August 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES STANLEY, a citizen of the United States, residing in Newark, Essex county, New Jersey, have invented certain new and useful Improvements in Driving-Pulleys, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

10 This invention consists in a driving-pulley formed of leather scraps cemented together in disk-like form.

15 In the drawings, Figure 1 is a side view of a pulley constructed as described herein. Fig. 2 is a central transverse section of the same; and Fig. 3 is a transverse section of a mold for pressing such pulleys with an arbor and follower not in section.

20 A is the pulley; B, a metallic hub for the same; C, a flange formed on the hub at one end; C', a loose flange fitted over the other end of the hub; D, a set-screw inserted in the hub; D', a key-way shown inside the hub; E, the mold; F, the follower for compressing the scraps in the mold, and G an arbor inserted in the mold to form the bore of the pulley in any desired size, the follower being perforated to slip over the arbor.

30 The leather scraps may be used in the form of either shreds or pulp, the latter being formed by grinding or disintegrating the leather in any convenient manner. When formed of scraps in the shape of shreds or shavings, the material requires to be pasted together in the mold with glue, paste, or cement of any kind, in layers parallel with the flat sides of the pulley, so that the wear upon the rim of the same will act upon the edges of the several shreds and not operate to detach or unroll any of the layers, as might occur if the flat sides of the same were wrapped around the pulley's rim. When made of pulp, the scraps are mingled with a suitable proportion of the cement used, and the pulley pressed in the mold and then removed and dried.

45 The mold is shown filled with scraps already pressed and ready for removal.

To secure a metallic bush or hub in my pulley, I form it with a solid flange at one side 50 of the pulley and with a loose flange at the

other side, adapted to draw up tightly to the face of the pulley by means of bolts passed through both flanges and the pulley, as shown at *a*'; or if two flanges are not required, as in the case of small pulleys, the solid flange may be secured to the pulley by wood-screws, as at *a*.

The hub may be secured to the driving-shaft by a set-screw, as D, or a key, as D', or any other suitable means. The rim of this pulley may be readily turned off with chisels of suitable character, and any desired shape given to the face. Pulleys formed of this material possess the most adhesive character upon the face, and may be used as friction-drivers with or without the use of a belt, the flanges C and C' serving to sustain the rim under any working pressure.

The material is very cheap and light, and, owing to its fitness for transmitting motion to a leather belt, is of much greater value than any other material, and may be used as a facing for metal pulleys.

I am aware of the prior application of T. F. Lemassena, filed May 16, 1884, as No. 131,714, and distinctly disclaim herein anything shown or described in the said application. I consider the composition of paper and leather claimed therein as a different invention from mine, and do not claim herein any composition of leather mixed with other ingredients, except cement, which is adapted solely to bind the leather together. I therefore restrict my claim herein to a specific article—namely, a driving-pulley composed of leather scraps cemented together, substantially as herein set forth.

Having thus described my invention, I claim—

A driving-pulley composed of leather scraps cemented together, substantially as herein set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JAMES STANLEY.

Witnesses:

L. LEE,
THOS. S. CRANE.