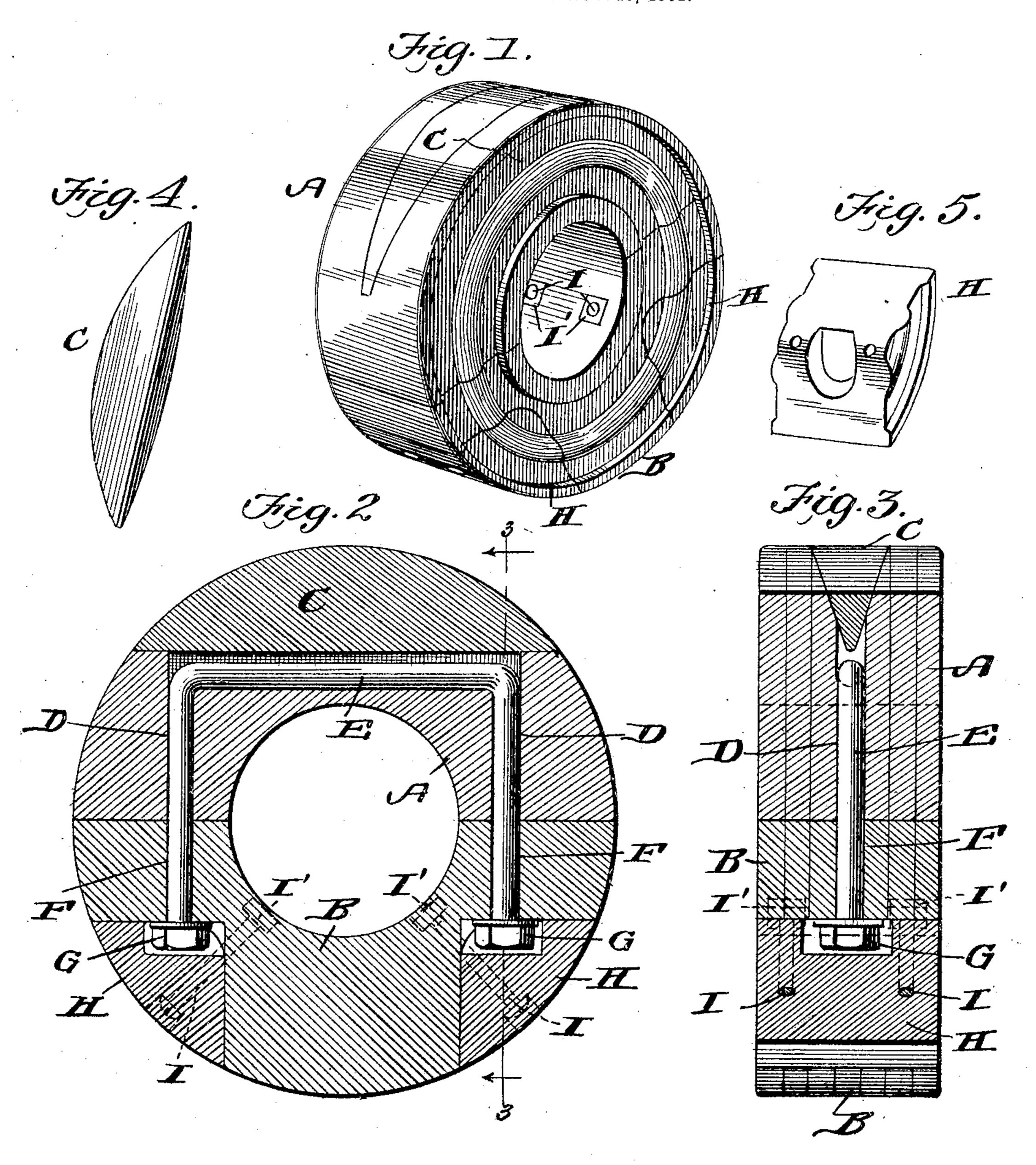
W. R. PATTEN. SPLIT PULLEY. APPLICATION FILED NOV. 15, 1902.



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UNITED STATES PATENT OFFICE.

WILLIAM R. PATTEN, OF NEW YORK, N. Y.

SPLIT PULLEY.

No. 803,018.

Specification of Letters Patent.

Patented Oct. 31, 1905.

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To all whom it may concern:

Be it known that I, WILLIAM R. PATTEN, a citizen of the United States, residing at New York, in the State of New York, have invented a new and useful Split Pulley, of which the following is a specification.

This invention is an improved construction of split pulley, the object being to provide a simple and efficient means for connecting the sections of a split pulley, whereby the said pulley can be more securely clamped to the

With this object in view the invention consists, essentially, in connecting the sections together by means of one or more angular bolts, said bolts being inserted through an opening produced in one of the sections and extending partially through the other section, nuts being employed for binding the sections together, said nuts being set into cut-out portions in the opposing section of the pulley and covered by means of blocks set into the cut-out portions, a wedge-block being inserted in the opening through which the angular bolt is introduced.

The invention consists also in certain details of construction and novelties of combination, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view of a pulley constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view, the angular bolt being shown in elevation. Fig. 3 is a transverse sectional view on the line 3 3 of Fig. 2, the bolt and nut being shown in elevation. Fig. 4 is a detail perspective view of the wedge-block. Fig. 5 is a detail perspective view of the sectional block intended to cover the end of the bolt and nut.

In constructing a pulley in accordance with my invention I build same in two sections A and B, each section being preferably composed of a series of layers; but it will of course be understood that I do not limit myself to this detail of construction. The section A has a wedge-shaped sector C cut therefrom, the chord of the sector being parallel to the straight edges of the section A. Communicating with the opening produced by re-

moving the wedge-shaped sector are two bores or passages D, said bores or passages being substantially tranverse to the chord of the sector. Passing through these bores D is the 55 angular bolt E, which in Fig. 2 is substantially in the form of an open rectangle, the free ends being threaded, and the central portion rests within the opening produced by removing the wedge-shaped sector. The 60 threaded ends of the bolt pass through bores F produced in the section B, and the said section is cut away, as shown, in order to provide clamping-surfaces for the nuts G, as most clearly shown in Fig. 2, and after the 65 nuts have been securely fastened to the ends of the bolt the said nuts are concealed by the block-sections H, securely connected to the section B by means of bolts I, nuts I' being secured upon the inner ends of said bolts, 70 said nuts being seated in the inner face of the pulley. After the sections have been securely clamped together the wedge-shaped sector C is reinserted and held by glue or other suitable adhesive and the face of the pulley turned 75 down smooth. It will thus be seen that by employing an angular bolt I secure an exceedingly strong and durable construction of split pulley which can be quickly and tightly clamped to the shaft.

Having thus fully described my invention, what I claim as new, and desire to secure by

Letters Patent, is—

1. A pulley of the kind described comprising a plurality of sections, a recess formed 85 in the curved face of one of said sections, a block adapted to be inserted in said recess, said recessed section having bores arranged at right angles to the recess, the adjacent section having bores adapted to aline with those 90 of the recessed section, an open rectangular-shaped bolt having its central portion lying in the recess beneath the block, nuts adapted to engage the ends of said bolt, the remaining sections being adapted to cover said nuts.

2. A sectional pulley of the kind described, one of said sections having a wedge-shaped recess formed in its outer face, and bores extending from said recess to its inner face, an adjacent section having cut-out portions and bores extending from said cut-out portions to its inner face, said bores alining with the

bores of the recessed section, a bent bolt having its end portions resting in and projecting from said bores and its central portion resting in said recess, nuts on the ends of the bolt, block-sections adapted to fit in the cut-out portions and cover said nuts, and a block adapted to fit in the said recess over the cen-

tral portion of the bolt, substantially as described.

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Witnesses:

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