(No Model.)

H. & C. R. RUDD.

SPLIT PULLEY.

No. 488,253. Patented Dec. 20, 1892.

Fig. 1.

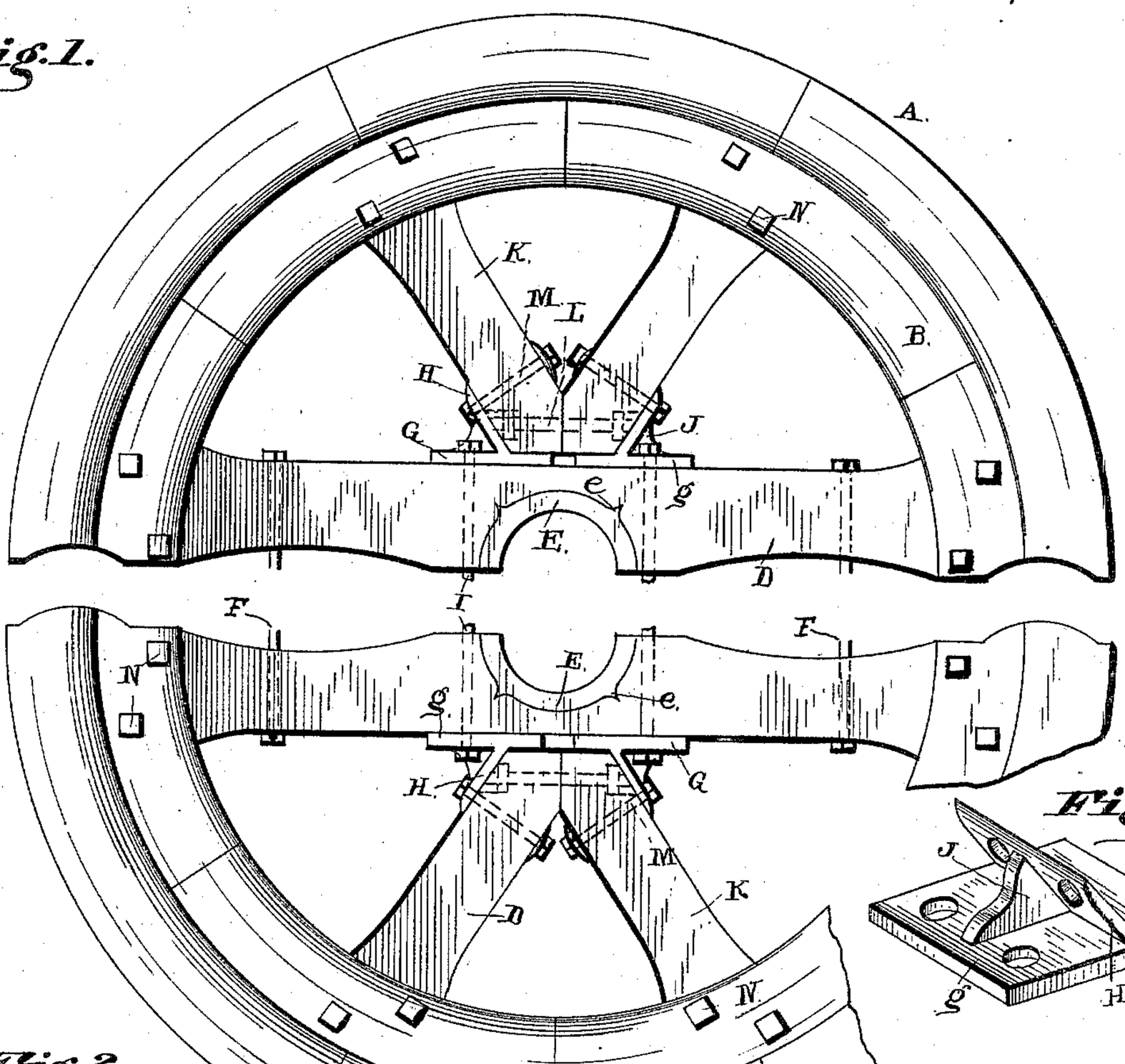


Fig. 4.

Fig. 2.

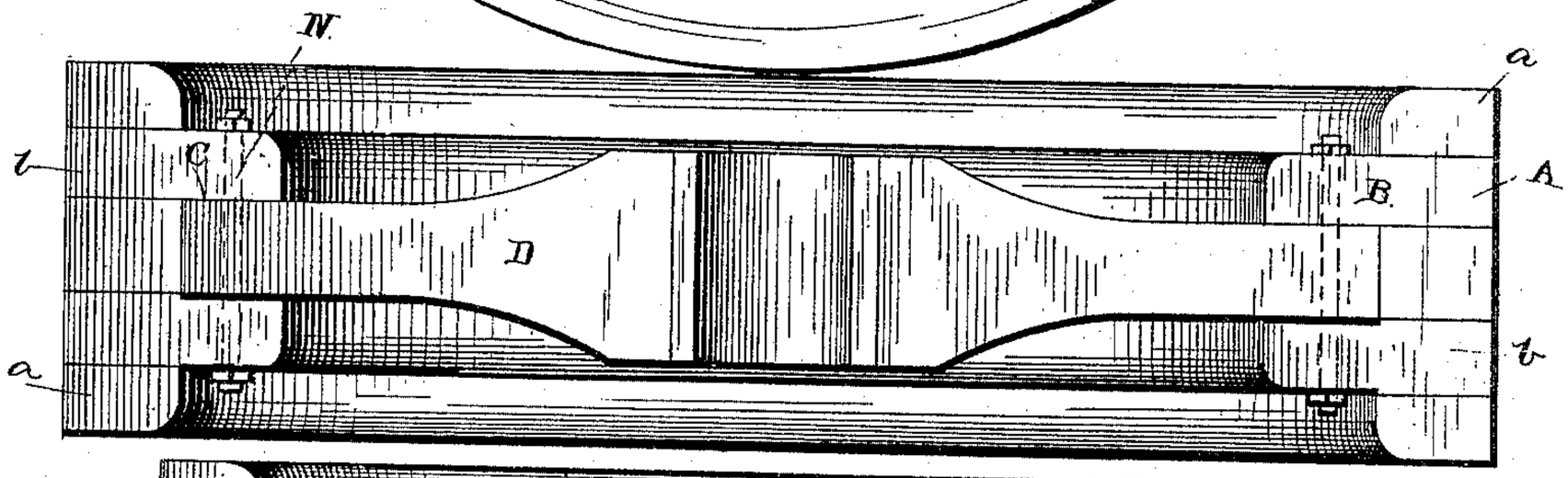
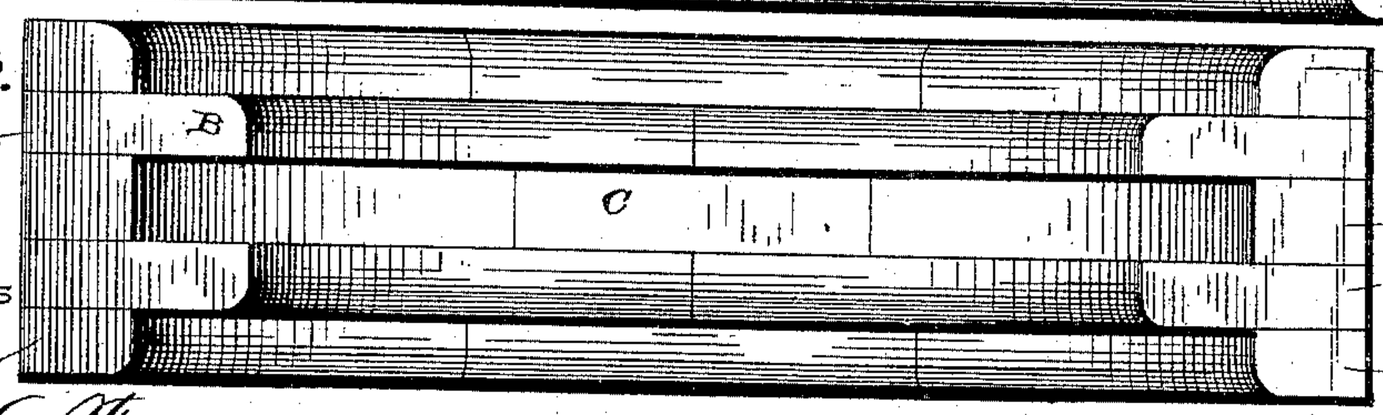


Fig. 3.



Witnesses

Chas. A. Ford.

Chas. S. Hyer.

Inventors

Harrison Rudd and Charles R. Rudd

By their Attorneys,

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UNITED STATES PATENT OFFICE.

HARRISON RUDD AND CHARLES R. RUDD, OF FULTON, NEW YORK.

SPLIT PULLEY.

SPECIFICATION forming part of Letters Patent No. 488,253, dated December 20, 1892.

Application filed April 7, 1892. Serial No. 428,200. (No model.)

To all whom it may concern:

Be it known that we, HARRISON RUDD and CHARLES R. RUDD, citizens of the United States, residing at Fulton, in the county of Oswego and State of New York, have invented a new and useful Split Pulley, of which the following is a specification.

This invention relates to improvements in split-pulleys, and consists in the construction and arrangement of the parts thereof as will be more fully described and claimed.

The object of this invention is to simplify and strengthen the construction and arrangement of the parts of devices of this character by means of a comparatively small number of parts, which are adapted to be readily put together for use.

In the drawings—Figure 1 is a side elevation of the parts of a pulley separated embodying the invention. Fig. 2 is an edge elevation of one of the sections of the pulley, looking into the hub thereof. Fig. 3 is a transverse vertical section of the pulley, showing the arms removed. Fig. 4 is a detail perspective view of one of the angle-irons.

Similar letters of reference indicate corresponding parts in the several figures of the drawings.

Referring to the drawings, A designates the rim of the section of the pulley, having a flange B with a slot or opening C between the same; and this construction is preferably provided by making a tier or series of wood-sections as *a*, and binding between the same sections *b*, which are wider than the sections *a* and project interiorly to form the said flange B of each section of the pulley. Arms D have their ends fitted in the opening C in each section of the pulley, and extend diametrically across said sections, being provided at their centers with semi-circular metallic bushings E, which are formed with V-shaped lugs *e*, fitted into the wood of the said arms D, and when the two sections of the pulley are brought together, tie-bolts F extend through and through said arms D to connect the sections of the pulley firmly together and also hold the bushings E on the axle or shaft, said bushings when brought together forming a rigid securing means. Secured to the outer edges of each of the arms D are angle-plates G which are arranged in pairs and formed with flanges H, arranged at oblique angles to the said arms D. Between the bases *g* of said angle-plates and the flanges H, are connecting strengthening flanges J. The lower ends of inclined brace-arms K are fitted in the angle-arms G, being first secured to each other by a tie-bolt L, which is arranged parallel with the adjacent arm D; and to hold the said lower or inner ends of the inclined brace-arms K in the angle-plates, inclined bolts M are inserted through said ends of the inclined brace-arms and the flanges H of the said angle-plates. The outer ends of the said inclined brace-arms K are fitted in the opening C of the flange B, and together with the ends of the arms D are secured to the rim of the pulley through the medium of the flange by bolts N passing transversely through the said flange and said arms. The angle-plates are held in position by parts of the tie-bolts I which pass through the base-plates G and on opposite sides of the bushings E, as at I, and thereby firmly secure the said angle-plates in position.

By means of the formation of the opening C and the flange B, adjustment of the arms can be attained; also, other arms may be readily substituted when found desirable, as all the parts are connected by removable bolts, which make this operation possible. The advantages of this construction are such as to provide a pulley of increased strength, wherein arms may be substituted for those which may become displaced or broken, and also provides means for adjusting a new rim on the said arms; and, further, in supplying a new bushing, together with arms supporting the same, all of which is readily apparent to those skilled in the art.

Having thus described the invention, what is claimed as new is—

1. In a split-pulley, the combination of a rim consisting of series of wood sections, one side having long inward projections which form an interior flange with an opening therein extending entirely around the inner side of the rim of the pulley, a pair of contiguously arranged arms extending diametrically across the pulley and having the ends thereof removably fitted in said flange, a pair of angle plates secured to the outer sides of said arms and provided with inclined flanges, a pair of

braces having their inner ends connected to said angle plates, and their outer ends secured in said flange, and tie-bolts connecting the several parts, substantially as described.

2. In a split-pulley, the combination of a rim consisting of series of wood sections one side having long inward projections which form an interior flange, with an opening therein extending entirely around the inner side of the rim of the pulley, a pair of contiguously arranged arms extending diametrically across the pulley and having the ends thereof removably fitted in said flange, said arms being provided with bushings having V-shaped lugs embedded therein, a pair of angle plates secured to the outer sides of the said arms and provided with inclined flanges, a pair of inclined braces with outer diverging ends secured to the aforesaid flange, and the inner ends thereof attached to said angle plates and bearing against each other, bolts connecting the inner ends of said braces, other bolts secured to said braces and said flanges of the angle plates and arranged at an angle of inclination, and tie-bolts extending through said arms alone, and also through said arms and the bases of said angle plates, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

HARRISON RUDD.
CHARLES R. RUDD.

Witnesses:
M. M. WILLIAMS,
WILLIAM W. COOPER.