

No. 829,424.

PATENTED AUG. 28, 1906.

E. L. PENCE.
WOOD SPLIT PULLEY.

APPLICATION FILED MAR. 23, 1905. RENEWED JUNE 22, 1906.

Fig. 1.

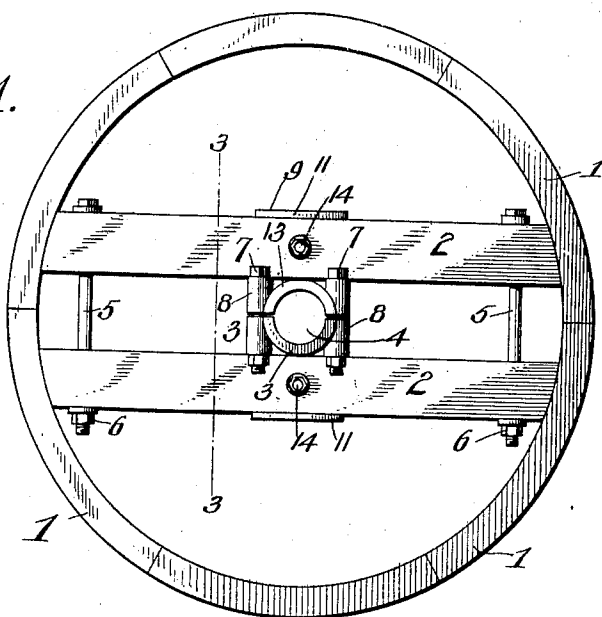


Fig. 2.

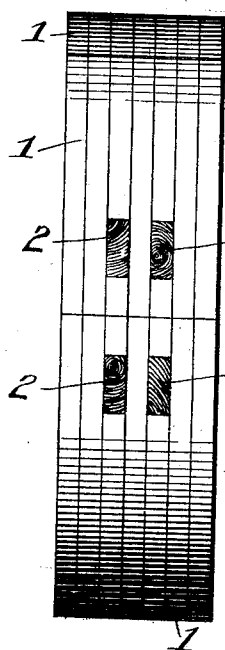


Fig. 4.

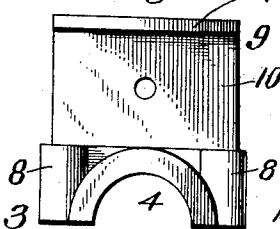


Fig. 3.

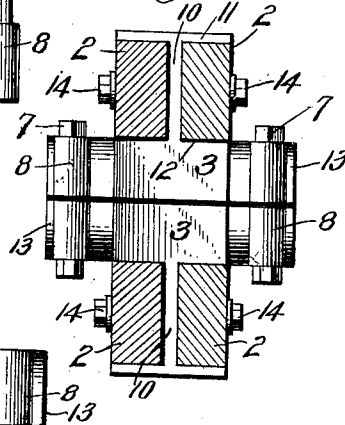
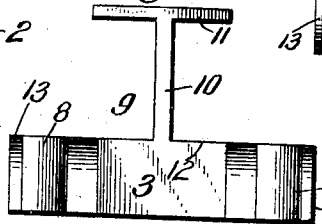


Fig. 5.



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UNITED STATES PATENT OFFICE.

EDWARD LOGAN PENCE, OF MEMPHIS, TENNESSEE, ASSIGNOR OF ONE-HALF TO J. E. RICHARDSON, OF MEMPHIS, TENNESSEE.

WOOD SPLIT PULLEY.

No. 829,424.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed March 23, 1905. Renewed June 22, 1906. Serial No. 322,950.

To all whom it may concern:

Be it known that I, EDWARD LOGAN PENCE, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Wood Split Pulley, of which the following is a specification.

The invention relates to improvements in wood split pulleys.

The object of the present invention is to improve the construction of wood split pulleys, more especially the construction of the hub, and to provide a sectional metallic hub of simple and comparatively inexpensive construction, which will be strong and durable and which will enable the pulley-sections to be readily separated and connected.

A further object of the invention is to provide a hub of this character having means for interlocking its sections with the sections of the pulley, whereby the hub-sections will be firmly secured to the pulley-sections and maintained in proper relation with the same.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a side elevation of a wood split pulley constructed in accordance with this invention. Fig. 2 is an elevation of the face or rim of the pulley. Fig. 3 is a sectional view on the line 3-3 of Fig. 1. Figs. 4 and 5 are detail views of one of the sections of the hub.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 1 designate sections of a wood split pulley, which sections are provided at opposite sides of the center of the pulley with cross bars or arms 2, between which are arranged hub-sections 3 of a metallic hub or center. The hub-sections, which are constructed of any suitable metal, are provided with opposite bearing recesses or grooves 4, forming the shaft-receiving opening when the parts are assembled. The cross bars or arms 2, which are arranged parallel with each other, are connected near their outer ends by rods or bolts 5, each provided at one end with a head and having its other end threaded for the reception of a nut 6.

The hub-sections are connected by draw-bolts 7, arranged in pairs at opposite ends of the hub-sections and passing through aligned openings which are formed in bosses or enlargements 8 of the hub-sections. These bolts are provided with suitable heads and nuts and enable the hub-sections to be readily assembled and separated.

The sections of the hub are interlocked with the pulley-sections by means of T-shaped members 9, extending at right angles to the bore or shaft-receiving opening of the hub and consisting of a stem or web 10 and a head 11. The head is formed by two flanges extending from the outer end of the stem or web at right angles to the same, as clearly shown in Figs. 3 and 5 of the drawings. The stem or web is located between the cross bars or arms 2, which are arranged in pairs, as shown in Fig. 3 of the drawings, and the head 11 fits against the outer edges of the cross bars or arms, the inner edges of the cross bars or arms being fitted against the outer faces 12 of the hub-sections at the central portions thereof. The outer faces 12 of the central portions of the hub-sections are flat, as shown, the exterior configuration of the said central portions being preferably square and the end portions 13 being rounded, as shown. The bosses or enlargements 8, which receive the draw-bolts, are located at the rounded end portions of the hub-sections. The cross bars or arms are secured to the T-shaped members by transverse bolts 14, which pierce the cross-bars and the webs or stems at the centers of the latter. The T-shaped members form housings for the cross bars or arms, and the hub-sections thereby firmly interlock with the pulley-sections and are securely held in proper position with relation to the same. Also by interlocking the hub-sections with the pulley-sections the parts are effectually prevented from becoming separated, and the fastening devices, which connect the hub-sections, also serve to connect the pulley-sections. By means of the bolt 7 the sections of the pulley may be readily separated and assembled. Although in the accompanying drawings only one T-shaped member is shown at each of the hub-sections, yet it will be readily understood that two or more may be provided, according to the size of the pulley.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. A sectional metal hub for wood split pulleys provided with outer flat faces and
5 having T-shaped pulley-engaging members extending from the flat faces at right angles to the bore or shaft-receiving opening of the hub, and fastening devices connecting the hub-sections at the end portions thereof.
- 10 2. In combination, a wood split pulley provided with transverse bars or arms spaced apart and arranged in pairs, the individual members of each pair being likewise spaced apart, and metallic hub-sections arranged in the space between the bars or arms
15 and provided with projecting substantially T-shaped members consisting of a stem or web and a head, the stem or web fitting between the individual members of each pair
20 of arms, while the head extends across and connects the said members.
3. In a wood split pulley, a metallic hub composed of sections, each section being provided with an integral projecting T-shaped
25 member.
4. A wood split pulley provided with cross

bars or arms arranged in upper and lower pairs, each pair being spaced apart, and the individual members of each pair being likewise separated by a space, in combination
30 with a sectional hub, each section having a member passed through the space between the individual members of each pair of cross-bars, and means rigidly connecting said projecting members of the hub-sections to the
35 pairs of cross-bars.

5. A metal hub for split pulleys composed of sections, each section being provided with a projecting substantially T-shaped member composed of an outwardly-extending
40 web and a head extending from the outer end of the web and overhanging and spaced from the body portion of the section, and means for connecting the sections of the hub together.

In testimony that I claim the foregoing as
45 my own I have hereto affixed my signature in the presence of two witnesses.

EDWARD LOGAN PENCE.

Witnesses:

MARTIN BILGER, Jr.,
WM. F. BILGER.