

(No Model.)

C. D. WEEKS.
WROUGHT METAL SPLIT PULLEY.

No. 466,205.

Patented Dec. 29, 1891.

Fig. 2.

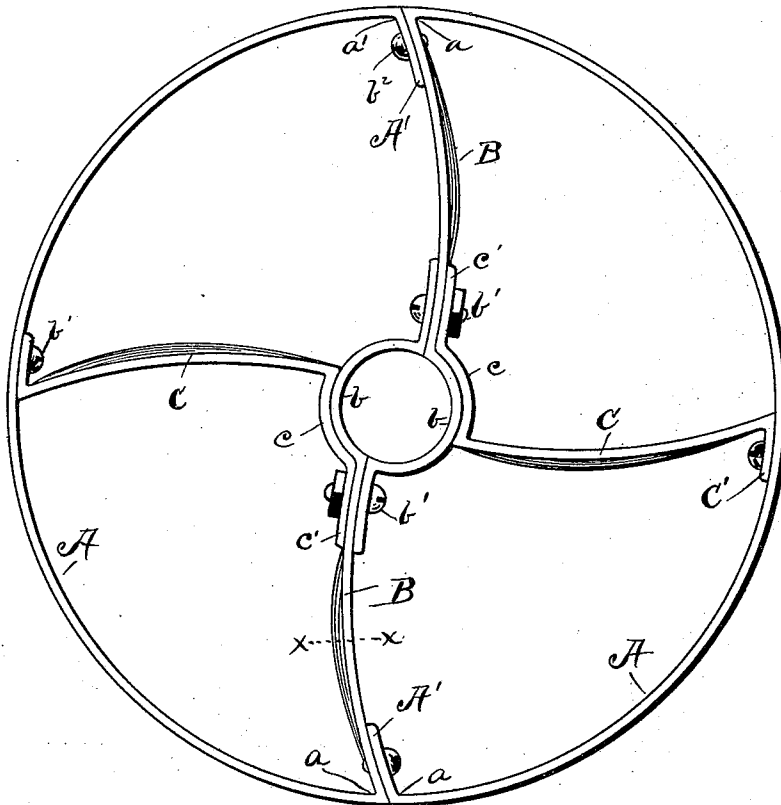
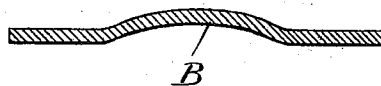


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES D. WEEKS, OF AKRON, OHIO.

WROUGHT-METAL SPLIT PULLEY.

SPECIFICATION forming part of Letters Patent No. 466,205, dated December 29, 1891.

Application filed July 8, 1891. Serial No. 398,850. (No model.)

To all whom it may concern:

Be it known that I, CHARLES D. WEEKS, of Akron, in the county of Summit and State of Ohio, have invented certain new and useful
5 Improvements in Wrought-Metal Split Pulleys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and
10 use the same.

My invention relates to improvements in wrought-metal split pulleys; and it consists in certain features of construction and in combination of parts hereinafter described,
15 and pointed out in the claims.

In the accompanying drawings, Figure 1 is an end elevation of a pulley embodying my invention. Fig. 2 is an enlarged elevation, in transverse section, of one of the arms, taken
20 on lines *x x*, Fig. 1.

The rim of the pulley is constructed in halves A A and of wrought-metal sheets or plates of suitable width for the face of the pulley. The one end of each rim-section is
25 bent at a sharp angle, as at *a*, to form one of the primary arms B. The two arms B B overlap each other and are curved outward, as at *b b*, to constitute the hub of the pulley, and the hub is constructed to fit a given standard
30 size of shaft. The overlapping sections of arms B B are drawn together by securing or clamping bolts *b' b'* on either side of the curved sections, whereby the hub of the pulley is clamped so firmly to the shaft that no
35 other fastening is required. The other end of each rim-section is bent inward at a more obtuse angle, as at *a'*, to form toes A' for engaging an arm B, with securing-bolts *b²* for securing these parts. By removing bolts *b'*
40 *b²* the pulley can be divided into halves, and can therefore be readily mounted on or removed from the shaft.

C C are arms or spokes for bracing, respectively, the central portions of the rim-section.
45 Arms C have toes C' fastened to the rim, as shown, these arms having curved sections *c*

and straight sections *c'* for engaging the exterior of the hub and for engaging the opposing section of an arm B, to which latter section *c'* is secured by means of the aforesaid
5c bolts *b'*. The different arms B and C, or either of them, may be curved in cross-section—for instance, as shown in Fig. 2—to stiffen the arms, and this would be more likely done for a pulley of large diameter and broad face. 55

What I claim is—

1. A wrought pulley of the split variety the rim whereof is constructed in two sections or halves, the one end of each rim-section being bent inward to constitute an arm, the two
60 arms overlapping each other, the overlapping sections being curved outward to constitute the hub, the other end of the rim-section having inwardly-projecting toes for engaging the opposing arms, and with securing-bolts, substantially as shown, for fastening the arms to-
65 gether and thereby clamping the hub to the shaft and for fastening the opposing arms and toes, substantially as set forth.

2. In a wrought-metal split-pulley the rim
70 whereof is constructed in two sections or halves, the one end of each rim-section being integral with the pulley-arm, the two arms overlapping each other and constituting the hub of detachable arms having toes secured
75 to the pulley-rim, these detachable arms having concaved sections engaging the periphery of the hub and having adjacent sections secured to the primary arms, substantially as set forth. 80

3. A split pulley comprising independent peripheral sections, each section having an integral arm curved outwardly to form a hub, said arms secured together on each side of the curved sections, substantially as set forth. 85

In testimony whereof I sign this specification, in the presence of two witnesses, this 7th day of May, 1891.

CHARLES D. WEEKS.

Witnesses:

JAMES D. PARDEE,
JAS. W. SCOTT.