

J. MACKIE.
Pulley.

No. 217,128.

Patented July 1, 1879.

FIG. 1

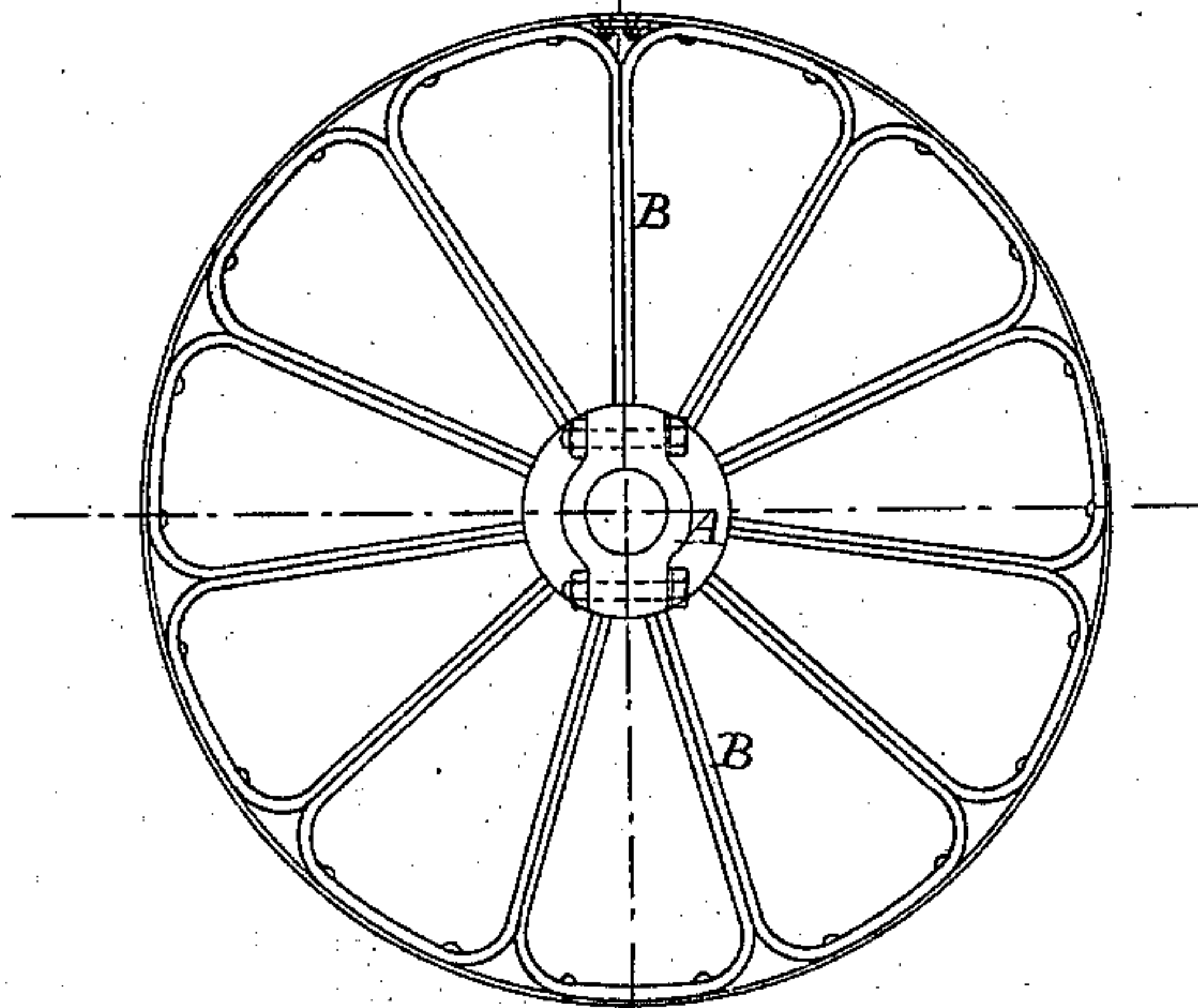


FIG. 2

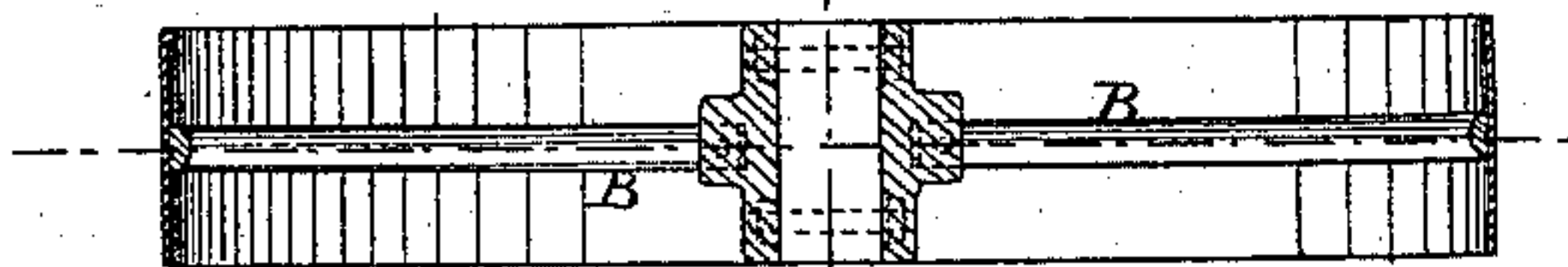
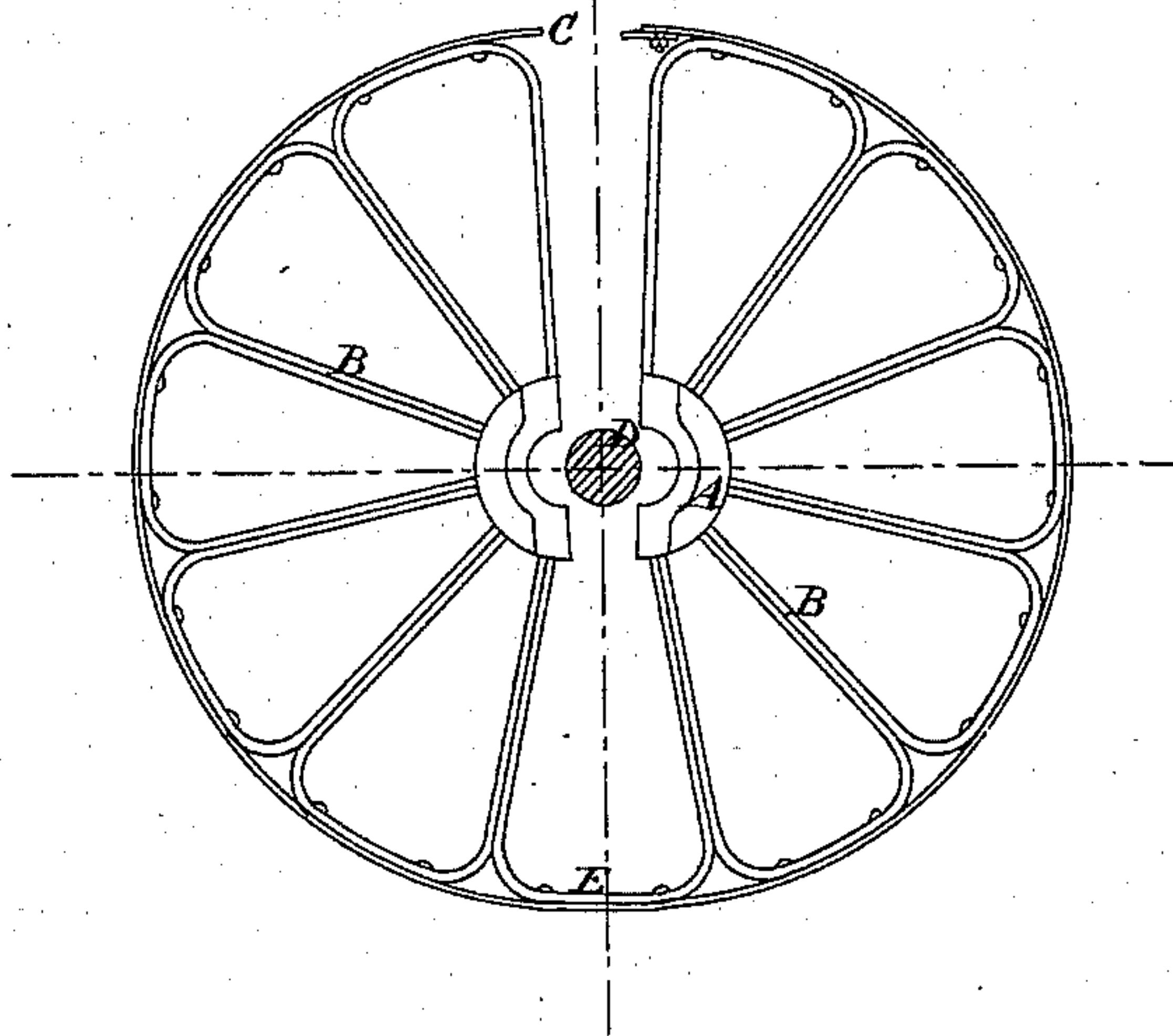


FIG. 3



Witnesses:

Jas. E. Hutchinson.

J. A. Rutherford.

Inventor,

John Mackie,

by James L. Norris,
Attorney.

UNITED STATES PATENT OFFICE.

JOHN MACKIE, OF READING, COUNTY OF BERKS, ENGLAND.

IMPROVEMENT IN PULLEYS.

Specification forming part of Letters Patent No. **217,128**, dated July 1, 1879; application filed May 3, 1879; patented in England, May 10, 1877.

To all whom it may concern:

Be it known that I, JOHN MACKIE, of Reading, in the county of Berks, England, engineer, have invented an Improved Pulley or Drum; and do hereby declare that the following description, taken in connection with the accompanying sheet of drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent—that is to say:

This pulley is an improvement upon the ordinary split or divided pulley made in halves, and overcomes the difficulty and loss of time occasioned in fitting pulleys upon driving shafts or spindles.

This invention consists in the construction of the periphery and arms or spokes of the pulley, as shown in Figure 1, which may be made of wrought-iron, steel, or other metal, and the arms or spokes may be made of various shapes or forms. The boss or center of the pulley (marked A) is made in two pieces. Into this boss the arms or spokes (marked B) are inserted either by being cast, wrought, riveted, or screwed. The arms or spokes B are made either of double or single bars of wrought-iron, steel, or other metal, and are fastened into the periphery of the pulley. In the drawings these are shown of double bars. The pe-

riphery itself is split or divided, as shown in Fig. 3, but has only one opening or division, (marked C,) by means of which it is opened, and when this is done the boss A is also opened sufficiently to place the pulley upon the driving shaft or spindle D, the elasticity of the periphery at the point E giving a sufficient opening of the half-split or division in the same at C, and also of the boss A, to enable this to be accomplished.

Having thus described the nature of my invention, and the best means I know of carrying it out in practice, I claim—

1. A pulley or drum having a split boss and a rim or periphery split on one side only, the opposite side of the periphery being so constructed that it will permit of the split side and the boss being opened out sufficiently to allow it to be passed over the shaft, substantially as herein described.

2. In a pulley or drum, the combination of the split boss A, spokes B, and rim C, split at one point of its circumference.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 17th day of April, 1879.

JOHN MACKIE.

Witnesses:

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20 Southampton Buildings, London, W. C.
CHAS. BERKLEY HARRIS,
17 Gracechurch Street, London, E. C.