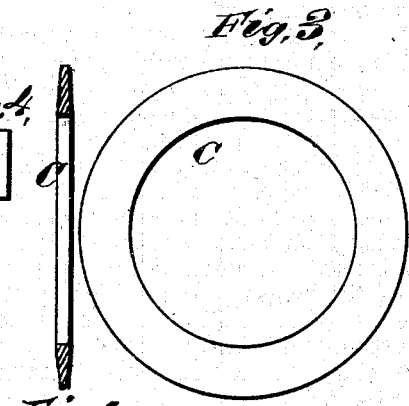
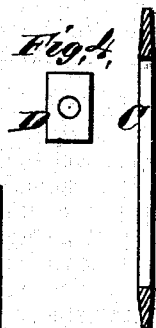
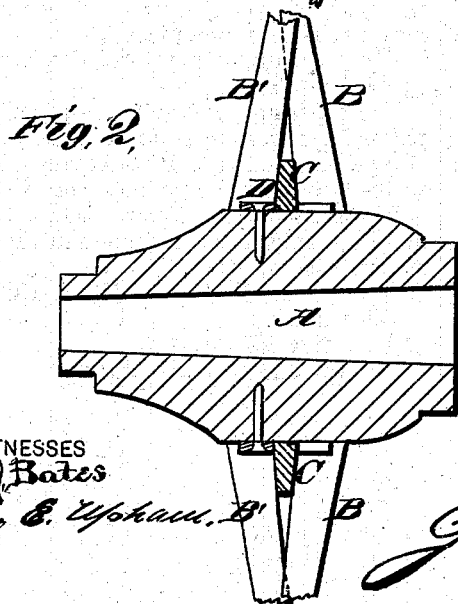
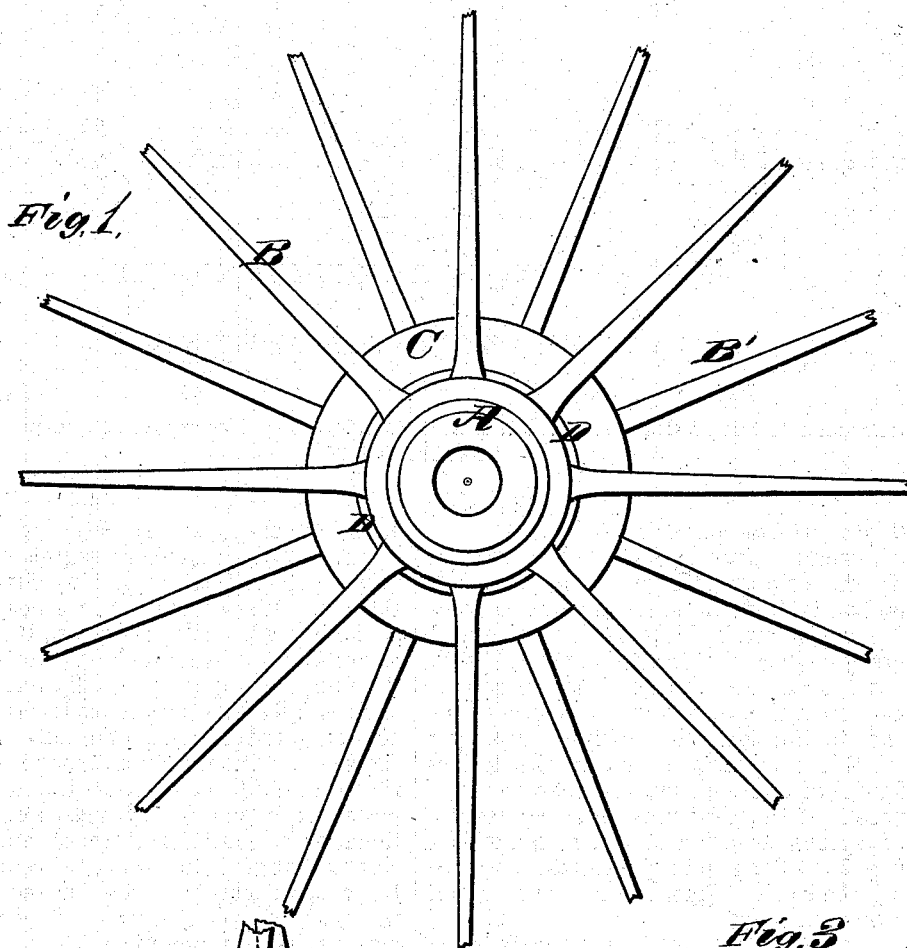


H. MOUNTS.
VEHICLE WHEEL.

No. 186,360.

Patented Jan. 16, 1877.



WITNESSES
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ATTORNEYS.

UNITED STATES PATENT OFFICE.

HUGH MOUNTS, OF HILL, PENNSYLVANIA.

IMPROVEMENT IN VEHICLE-WHEELS.

Specification forming part of Letters Patent No. **186,360**, dated January 16, 1877; application filed September 9, 1876.

To all whom it may concern:

Be it known that I, HUGH MOUNTS, of Hill, in the county of Mercer and State of Pennsylvania, have invented a new and valuable Improvement in Wagon-Wheels; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front elevation of my wagon-wheel, and Fig. 2 is a longitudinal vertical sectional view of the same. Figs. 3 and 4 are detail views thereof.

This invention relates to wagon-wheels; and it consists in the employment of a tapering annular bracing-flange and intermediate plates applied to a hub and staggered spokes, as will be hereinafter set forth.

In the annexed drawings, A designates the hub of a wagon-wheel, and B B' designate two opposite rows or series of spokes socketed therein. Said spokes are alternately arranged, and inwardly inclined, relatively to the middle of the length of the hub, or double-staggered, so that while their tenons, mortised into the hub, are separated, series from series, by an annular central space, their tapering

ends, attached to the felly, form a regular circle. C designates a separating ring or flange, which extends radially outward on all sides of hub A, and is interposed between spoke series B and spoke series B'. Said ring or annular flange is thickest where it touches the hub, and tapers gradually outward, so as to fit snugly between the converging or double-staggered spokes, and effectually brace the same. The individual spokes of each series are similarly separated, and braced by plates or blocks D D, interposed between them, and secured rigidly to hub A. Said ring or flange C, and said plates or blocks D D, are, preferably, constructed either of wrought-iron or cast-iron. If desired, they may be made in one piece.

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

The tapering annular bracing-flange C and plates D, in combination with the hub A and staggered spokes B B', substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HUGH MOUNTS.

Witnesses:

LEVI HILDEBRAN,
WILLIAM GLENDENER.