

M. JOHNSON.

Improvement in Carriage Wheels.

No. 125,053.

Patented March 26, 1872.

Fig. 1.

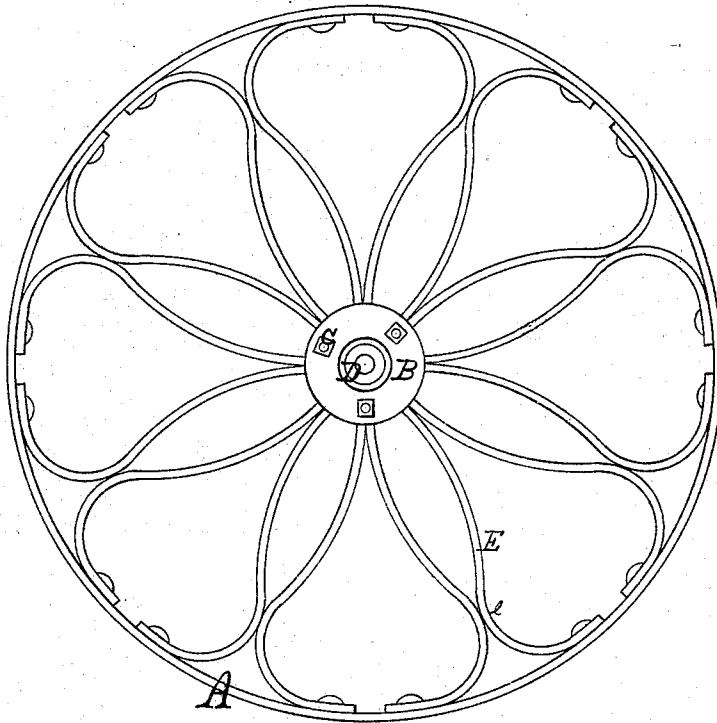
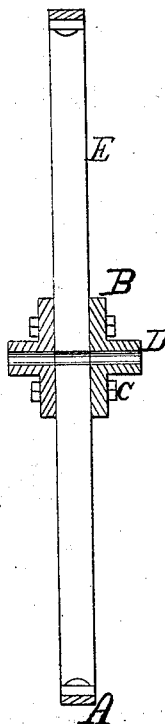


Fig. 2.



WITNESSES.

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MOSES JOHNSON, OF THREE RIVERS, MICHIGAN.

IMPROVEMENT IN CARRIAGE-WHEELS.

Specification forming part of Letters Patent No. 125,053, dated March 26, 1872.

To all whom it may concern:

Be it known that MOSES JOHNSON, of Three Rivers, in the county of St. Joseph and State of Michigan, has invented a new and valuable Improvement in Spring-Wheels; and he does 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 drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a face view of my invention. Fig. 2 is a central sectional view of the same.

This invention has relation to spring-wheels for wagons and other vehicles; and consists in the construction and novel arrangement of the hub and the curved elastic spokes, as and for the purpose hereinafter described.

In the accompanying drawing, A represents the rim of the elastic wheel; B, the hub, consisting of two coinciding parts notched on their inner faces, so that when brought together radial sockets will be formed for the reception of the inner ends of the elastic arms or spokes. The two parts of the hub are secured together by means of bolts C. D represents the axle-box, having a cylindrical interior, so that the wheel may fit the axle-arm from either side. E indicate the spokes, consisting of flattened

strips of elastic metal. The inner ends of two spokes are placed into each of the hub-sockets. They thence diverge in a curvilinear direction toward the rim, near which they are bent around toward each other, as shown, and secured to the rim by bolts or rivets. The spokes of each pair are so arranged as that their shoulders *e* shall rest against those of the adjacent spokes. This arrangement produces strength and tends to keep the wheel in shape.

The spokes should be made a little wider than the hub-sockets, so that when the bolts are tightened the spokes will be held more securely.

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

The spring-wheel herein described, provided with the elastic S-shaped spokes E, arranged in isometric pairs, the spokes of each pair touching each other only at the point of junction with the hub, and touching the adjacent spokes at the shoulders of their curvature, substantially in the manner specified.

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

MOSES JOHNSON.

Witnesses:

CLARENCE E. WILBUR,
ED. L. BROWNE.