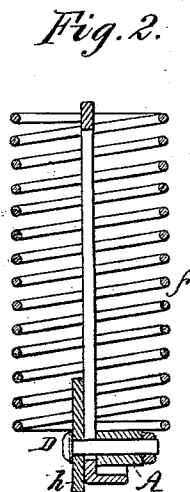
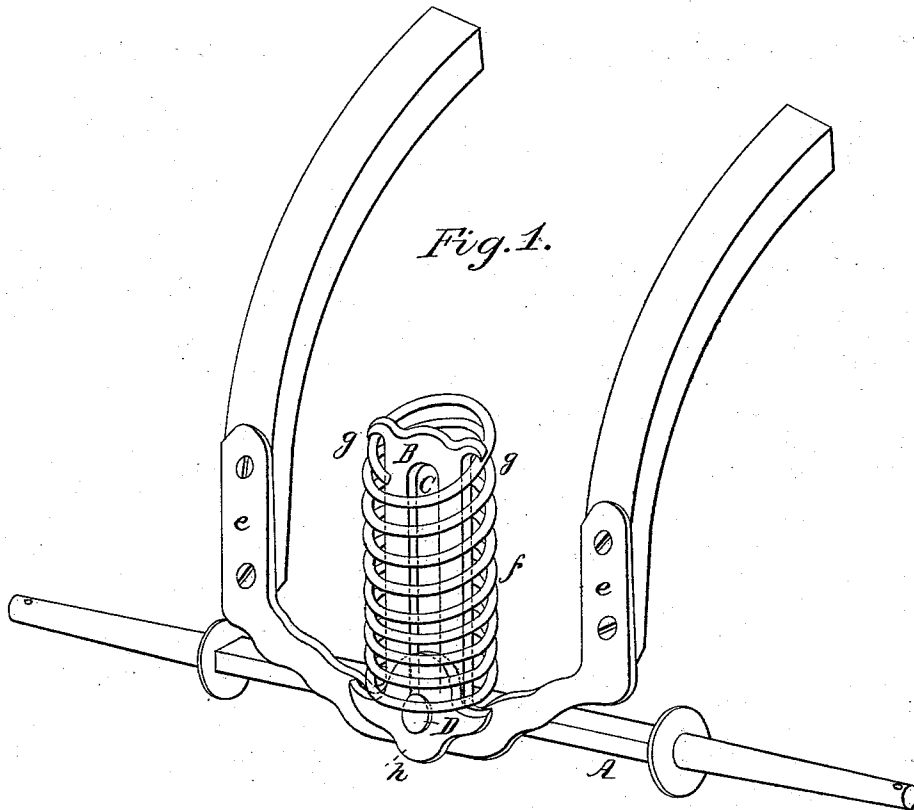


J. LOUGHRIDGE.

Improvement in Springs and Oscillating Axle for Children's Carriages.

No. 126,066.

Patented April 23, 1872..



Witnesses.
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UNITED STATES PATENT OFFICE.

JAMES LOUGHRIDGE, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN SPRINGS AND OSCILLATING AXLES FOR CHILDREN'S CARRIAGES.

Specification forming part of Letters Patent No. 126,066, dated April 23, 1872.

To all whom it may concern:

Be it known that I, JAMES LOUGHRIDGE, of the city of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Springs and Oscillating Axle for Childrens' Carriages; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in the combination of a spiral spring and its holder with the axle of a child's carriage or perambulator, said holder serving the double purpose of support for the spring and attachment-plate for connecting the axle with the body of the carriage, the said spring and holder being so constructed and arranged with relation to the axle and the body of the carriage as to relieve the latter from the unpleasant rebound or jolt caused by the wheel or wheels coming in contact with any obstacle, or when passing over uneven surfaces.

To enable others skilled in the art to make and use my invention, I will proceed to describe more fully its construction and operation.

In the accompanying drawing which forms part of my specification, Figure 1 is a perspective view of the axle-spring and its holder, representing it attached to the pieces which support the body of the carriage. Fig. 2 is a section cut through at line *yy* of Fig. 1.

A represents the axle; B, the holder, which is provided with the slot C, in which the bolt D moves. *ee* are arms of the holder, for connecting it with the pieces that support the body of the carriage. Around the holder B is placed a spiral spring, *f*, which is held in po-

sition with relation to the holder B at its upper end by the points *g*, and at its bottom by the piece *h*. By constructing the several parts as hereinbefore described, and as represented in the accompanying drawing, the body of the carriage is allowed to spring up and down in a vertical line with relation to the plane of the axle, and to oscillate sidewise; and the wheels, in passing over uneven ground, or coming in contact with obstacles, will cause the axle to oscillate without undue motion of the body of the carriage. In case both wheels strike against an obstacle, the concussion will be imparted to the axle, which will throw it upward, causing the bolt D to move up in the slot C, carrying with it the piece *h*, which will compress the spring, and thereby relieve the body of the carriage from any unpleasant rebound or jolt; and in case either one of the wheels comes in contact with an obstacle, or drops into a rut, the axle will oscillate, which will give an oscillating motion to the piece *h*, and will cause the rebound or jolt to be thrown upon one or the other side of the spiral spring *f*, and thus prevent any unpleasant or disagreeable motion or jolting of the body of the carriage.

Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention, and desire to secure by Letters Patent, is—

The combination of the holder B, spiral spring *f*, piece *h*, bolt D, with the axle A, all constructed, arranged, and operating with relation to each other, substantially as hereinbefore described, and for the purpose set forth.

JAMES LOUGHRIDGE.

Witnesses:

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