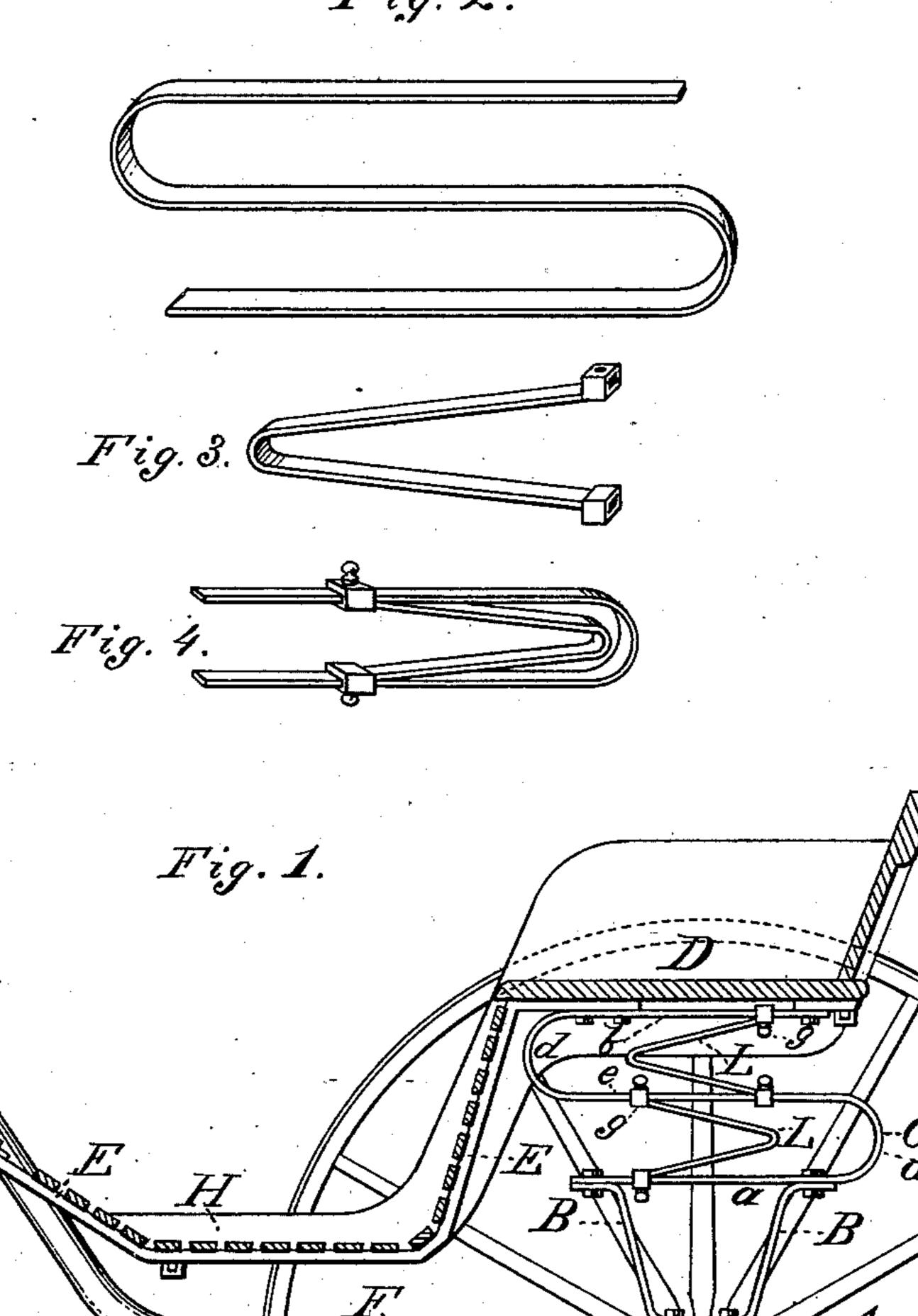
## D. ARGERBRIGHT.

VEHICLE SPRING.

No. 279,686.

Patented June 19, 1883.

Fig. 2.



WITNESSES
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## United States Patent Office.

DANIEL ARGERBRIGHT, OF TROY, OHIO.

## VEHICLE-SPRING.

SPECIFICATION forming part of Letters Patent No. 279,686, dated June 19, 1883.

Application filed September 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, D. ARGERBRIGHT, a citizen of the United States, and a resident of Troy, in the county of Miami and State of Ohio, have invented a new and valuable Improvement in Vehicle-Springs; 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 this invention in a vertical section. Fig. 2 is a perspective view of the S-shaped spring. Fig. 3 is a perspective view of the secondary spring. Fig. 4 shows a modification of the spring shown in Fig. 2.

This invention has relation to sulkies or road-carts; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings, the letter A designates the axle of a road-cart or twowheel vehicle, and B laterally-arranged supports firmly secured to said axle and extending upward to receive the lower branches, a, of the bent or S-shaped springs C, which are rigidly secured to said supports by means of clips or other suitable fastenings in ordinary use. To the upper branches, b, of said S-shaped springs the body or seat-frame D is fastened, said body or seat-frame having a depending foot rest or support, E.

35 F indicates the shafts, which are firmly clipped to the axle, extending forward horizon-tally therefrom, past the point of side entrance into the vehicle, and formed with an upward double bend, k, alongside the front portion of the foot-rest, whence they extend forward, as

shown in the drawings.

The dash G is attached to the foot-rest, and the front of the foot-rest is connected to the shafts, or a cross-bar thereof, by means of flexible or elastic couplings c, which yield easily to the movements of the foot-rest or seatframe. Usually these couplings are made in coil-spring form, and are carried around the cross-bar to which they are fastened.

o H indicates side forms, which are designed to extend along the sides of the foot-rest and seat to present the appearance of a body-frame. These sides are made detachable, so that they can be readily removed when not

55 required.

The bent springs C may be made single, but are preferably constructed in S form, having an upper branch, b, and a lower branch, a, which are connected by a middle portion, e, extending between the bends d of the spring. 60 Within the bow of each branch of the spring is arranged a secondary spring, L, of either bowed or spiral form, said secondary spring being connected to the main spring by means of adjustable clips or fastenings g, which can 65readily be loosened when necessary. The secondary springs L are adjustable toward or from the bends d of the main spring C. When it is desired to stiffen the main spring, in order to support a greater weight, the secondary 70 springs should be moved outward from the bends d, according to requirement. When the secondary springs are adjusted nearer to the bends d, the spring will be more yielding in character. In some constructions it may 75 not be necessary to fasten the upper ends of the secondary springs to the main springs; but for general use it is preferred to fasten both upper and lower ends of the secondary springs in order to prevent clicking or rattling.

A triple **C**-spring perforated to receive a vertical rod or wire extending upwardly from a rubber cushion on that portion of the spring which is secured to the axle has been provided with a holding-cap and an encircling-spring. 85 The foot-rest has been connected to the crossbar of the shafts prior to my invention, and I claim neither of these constructions, broadly,

herein.

Having described this invention, what I 90 claim, and desire to secure by Letters Patent, is—

1. A bent or S-shaped vehicle-spring, C, having adjustable secondary springs, whereby the main spring can be made more or less 95 yielding, substantially as specified.

2. A road - cart consisting of wheels and axle, spring - supports B, S - shaped main springs C and adjustable secondary springs L, seat D, depending foot - rest attached to roo said seat, flexible or elastic couplings c, and shafts having the double bends k near the front portion of the foot-rest, substantially as specified.

In testimony that I claim the above I have 105 hereunto subscribed my name in the presence of two witnesses.

Witnesses:

DANL. ARGERBRIGHT.

D. S. SABIN, DAVIS BAIRD.