H. S. CLARK.

Platform-Gear for Vehicles.

No. 154,584. Patented Sept. 1, 1874.

Fig. 1

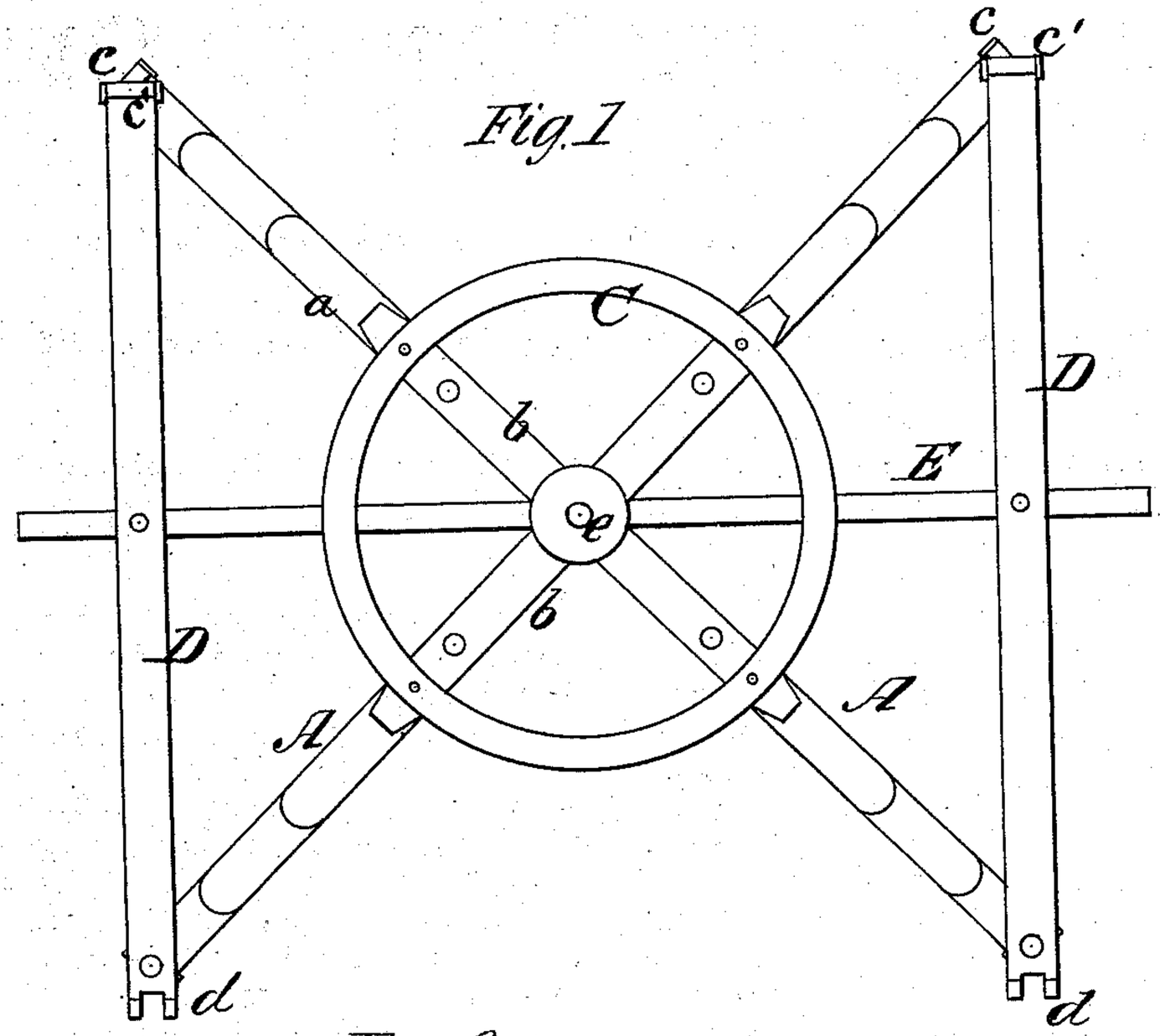


Fig. 2.

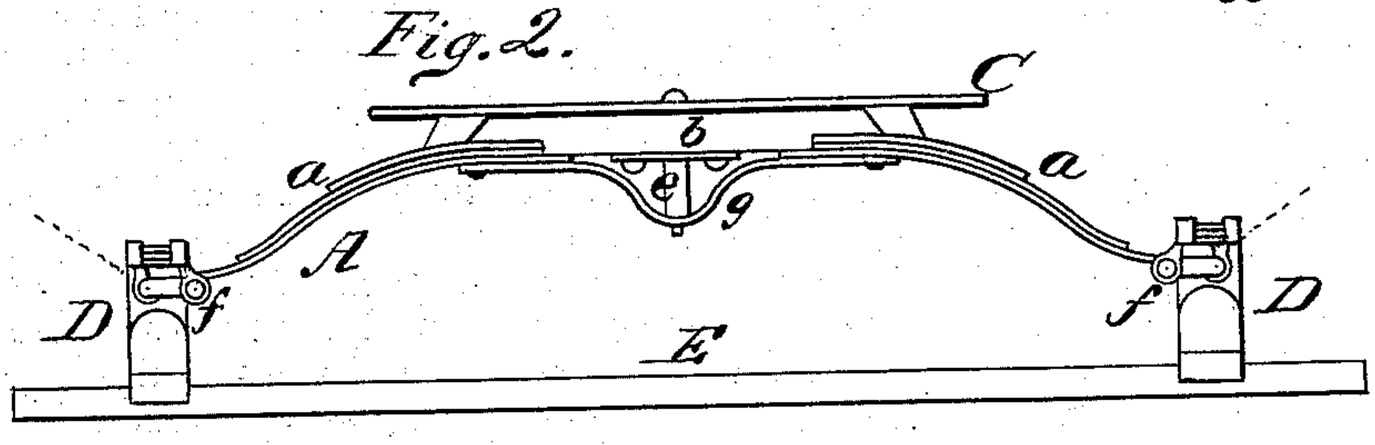
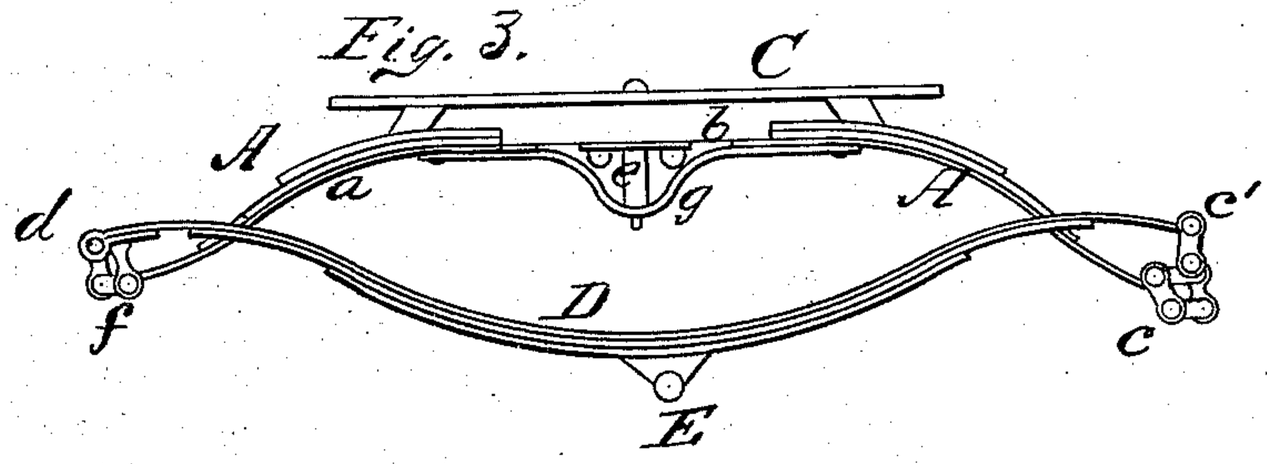


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

HARRY S. CLARK, OF TOWANDA, PENNSYLVANIA.

IMPROVEMENT IN PLATFORM-GEARS FOR VEHICLES.

Specification forming part of Letters Patent No. **154,584**, dated September 1, 1874; application filed February 28, 1874.

To all whom it may concern:

Be it known that I, HARRY S. CLARK, of Towanda, in the county of Bradford and State of Pennsylvania, have invented a new and valuable Improvement in Buggy-Platforms; 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 drawing is a representation of a plan view of my buggy-platform. Figs. 2 and 3 are sectional views of the same.

This invention has relation to the construction of platform-gears for buggies and other vehicles; and it consists in combining, with a "fifth-wheel," two cross-bars and four arched spring-extensions, and two connecting inverted arches thereof, which latter are secured upon the axle-bed, and have attachments on their front ends for thills or a draft-tongue.

The following is a description of my invention.

In the annexed drawings, A A designate four arched spring-extensions, which are fitted, by their inner ends, into, and bolted to, the halved ends of the rigid bars *b b*, which form the central portion of the supports. Secured upon these bars *b b* is, concentrically to the king-bolt, a fifth-wheel, C. These springs A A are suspended from the ends of side springs D D by means of stirrup-connections *c c' f*, so constructed as to allow free play of the four springs, and also a ready detachment of any of them which might be broken. The side springs D D are secured, at the middle of their length, upon the axle-bed E, and their front ends are constructed with eyes, for the attachment to them of shafts or a draft-tongue. The draft is thus in line with the side springs D D, and directly from the axle-bed.

These side springs are of the semi-elliptic kind, and they may be composed of a number of leaves, secured together in the usual well-known manner of making such springs.

The spring-extensions A A are composed of metal leaves *a a*, rigidly secured to the inflexible bars *b b*, which latter are, preferably, made of wood, and they have the ring or fifth-wheel C secured to their upper sides. These rigid bars *b* are strengthened, by means of trussed braces *e g*, so that they will uniformly transfer the weight put upon them to the four springs.

It will be seen, from the above description, that I have an elastic platform-gear, the crossed springs of which are sustained by side springs, which not only serve as means for supporting said crossed springs upon the axle-bed, but they also serve as braces for the crossed springs.

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

The combination, with the side springs, fifth-wheel, and rigid bars *b b*, intersecting at the king-bolt, of the spring-extensions *a a*, bolted to the ends of said bars *b b*, and the truss-braces *e g*, substantially as specified.

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

HARRY S. CLARK.

Witnesses:

E. C. DEWEES,

J. WELLS.