

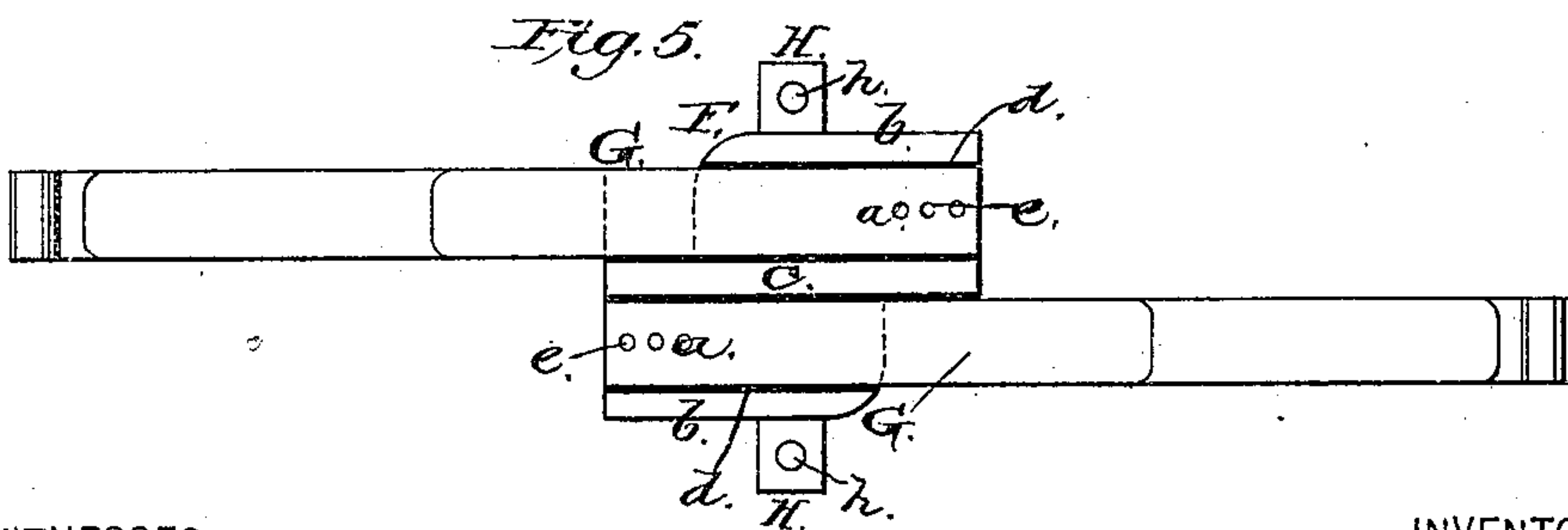
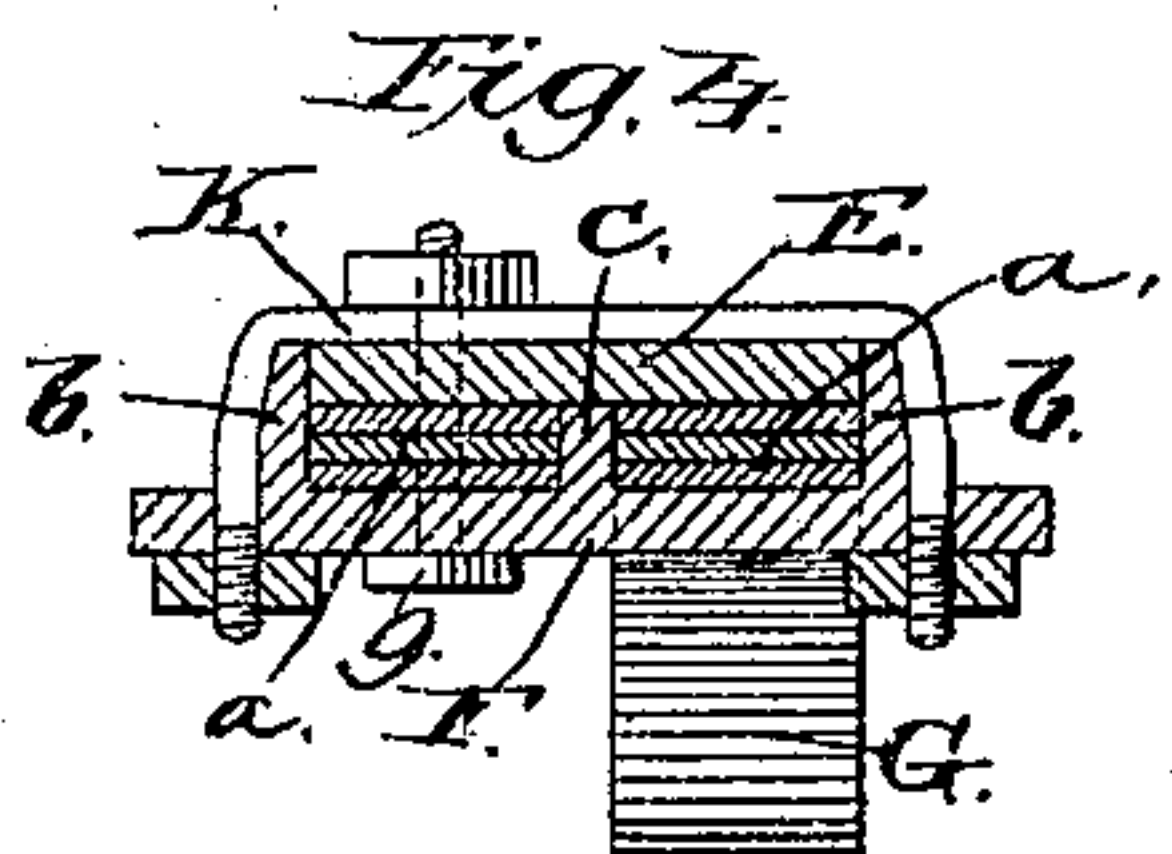
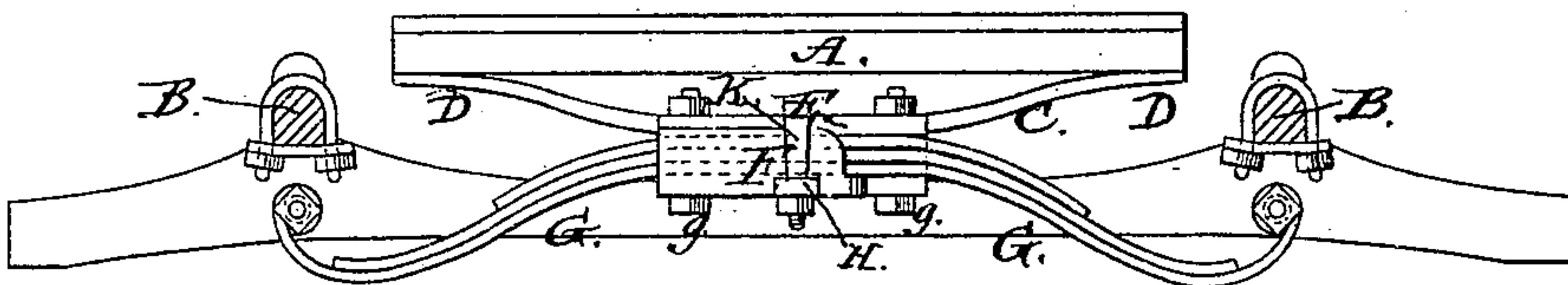
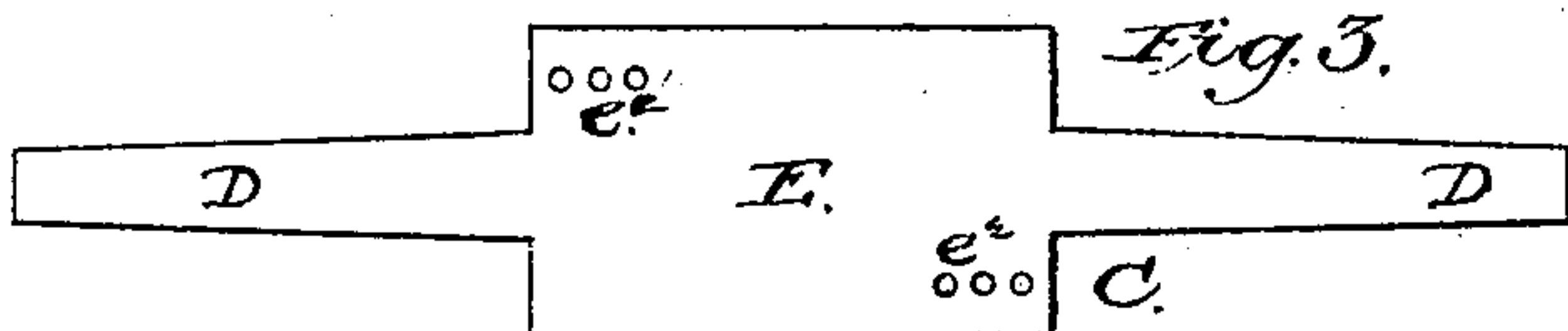
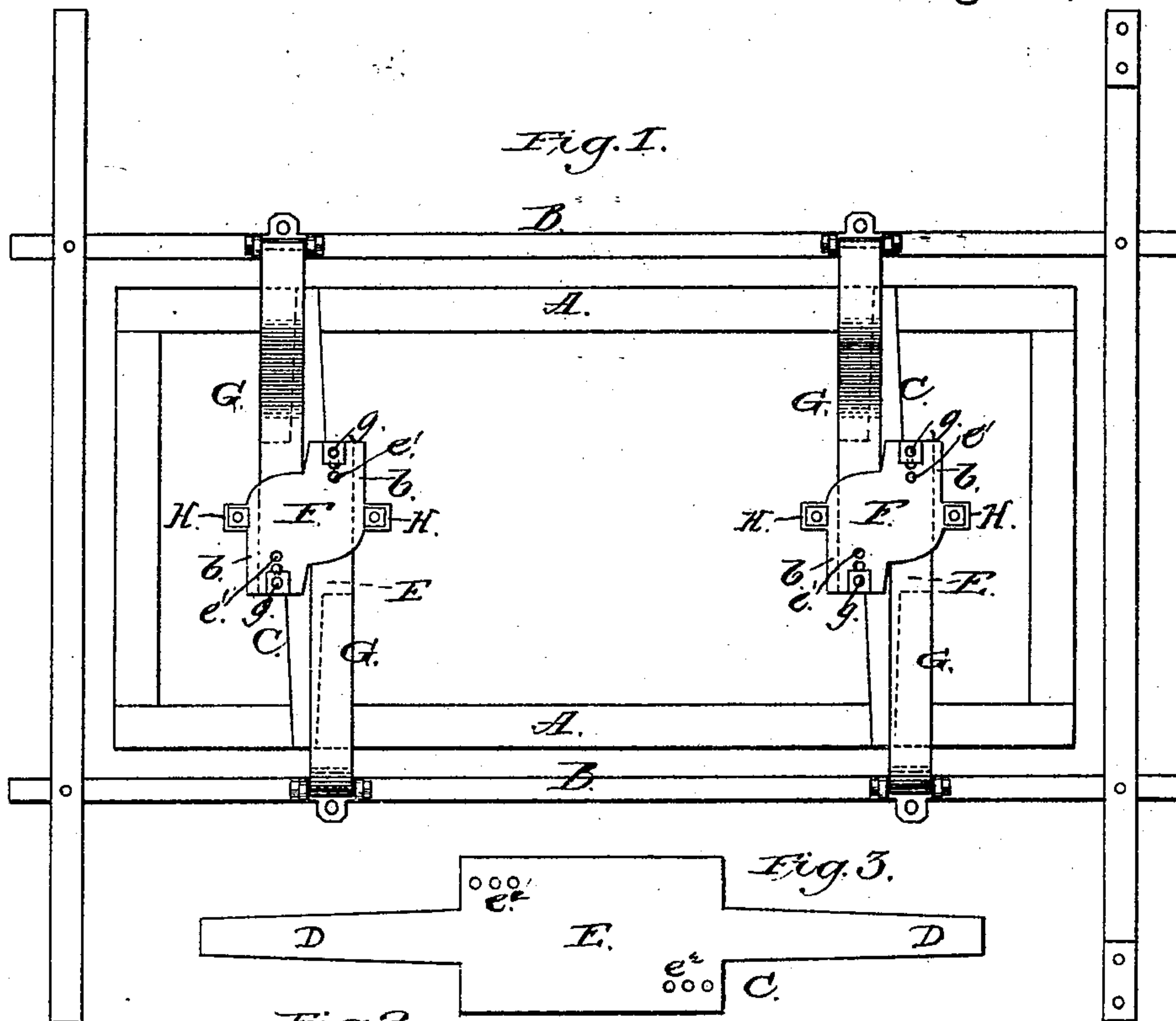
(Model.)

W. H. STICKLE.

VEHICLE SPRING.

No. 246,571.

Patented Aug. 30, 1881.



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM H. STICKLE, OF TERRE HAUTE, INDIANA.

## VEHICLE-SPRING.

SPECIFICATION forming part of Letters Patent No. 246,571, dated August 30, 1881.

Application filed July 2, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. STICKLE, a citizen of the United States, resident of Terre Haute, in the county of Vigo and State of Indiana, 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 a bottom view of my invention. Fig. 2 is a cross-section. Fig. 3 is a plan view of the truss bar or bearing. Fig. 4 is a cross-section through the crab, and Fig. 5 is a top view of same with truss-bar removed.

This invention has relation to vehicle-springs and attachments therefor; and it consists in the construction and novel arrangement, in connection with sectional springs, of a crab or coupling for the ends of the springs, and a truss-bar or cross-bearing, whereby the springs are connected to the body-frame, all as herein-after shown and described.

In the accompanying drawings, the letter A designates the sills of the body-frame of a buggy or other vehicle, and B B represent the side bars or end bearings, as the case may be, the illustration being especially designed to show the application of the invention with relation to a side-bar buggy.

C indicates the truss bar or bearing, which is secured by its ends or arms D to the sills. The truss-bar is provided with a central bearing, E, of proper width to fit between the side flanges, b, of the crab or coupling F, in which the ends a of the sectional springs G are seated. This crab is provided with a central dividing-flange, c, between its side walls, separating two parallel seats, d, in which are placed the ends a, respectively, of springs which extend in opposite directions, as indicated in the drawings. The side flanges, b, are made of greater height than the center flange, c, so that the center bearing, E, of the truss-bar will be received

neatly between said side flanges when the parts are secured together. The ends of the springs are provided with perforations e, and a series of perforations, e', are made through the bottom of the crab and through the center bearing, E, as indicated at e<sup>2</sup>, said perforations serving for the passage of bolts g, whereby the ends of the springs are secured in position between said crab and center bearing. The perforations are arranged in series, so that the springs may be readily adjusted according to the width of the work in hand.

H H designate lugs extending from the crab at right angles with the spring-bearings, and perforated at h for the passage of the threaded ends of the clip K, which passes over the center bearing of the truss-bar, and is designed to secure the parts firmly together.

It may sometimes be advisable to form the central or dividing flange of the spring-bearing on the truss-bar instead of the crab; but the construction hereinbefore described is preferred.

The outer ends of the sectional springs may be connected to the side bars by means of shackles, in the ordinary manner.

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

1. The adjustable sectional springs having perforated ends, in combination with the crab F, having parallel seats d for the ends of said springs, and series of perforations e', and the truss-bar C, also having series of perforations e<sup>2</sup>, substantially as specified.

2. The crab F, having the side flanges, b, and parallel seats d, and the dividing-flange c, in combination with the truss-bar C, its arms D, and center bearing, E, and the clip K, substantially as specified.

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

WILLIAM H. STICKLE.

Witnesses:

ISAAC CANTRELL,  
JOHN L. WALSH.