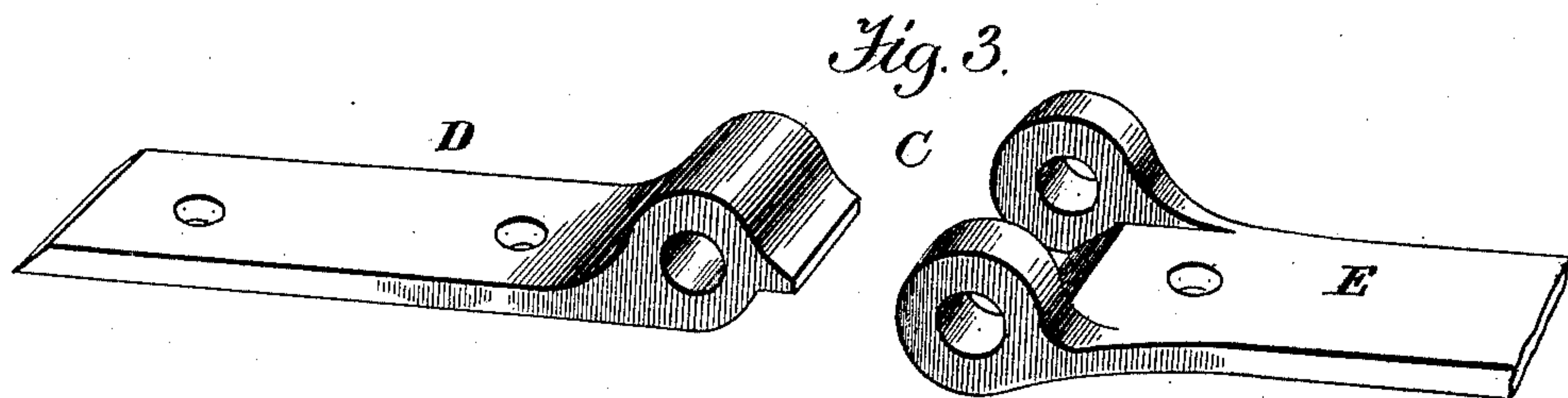
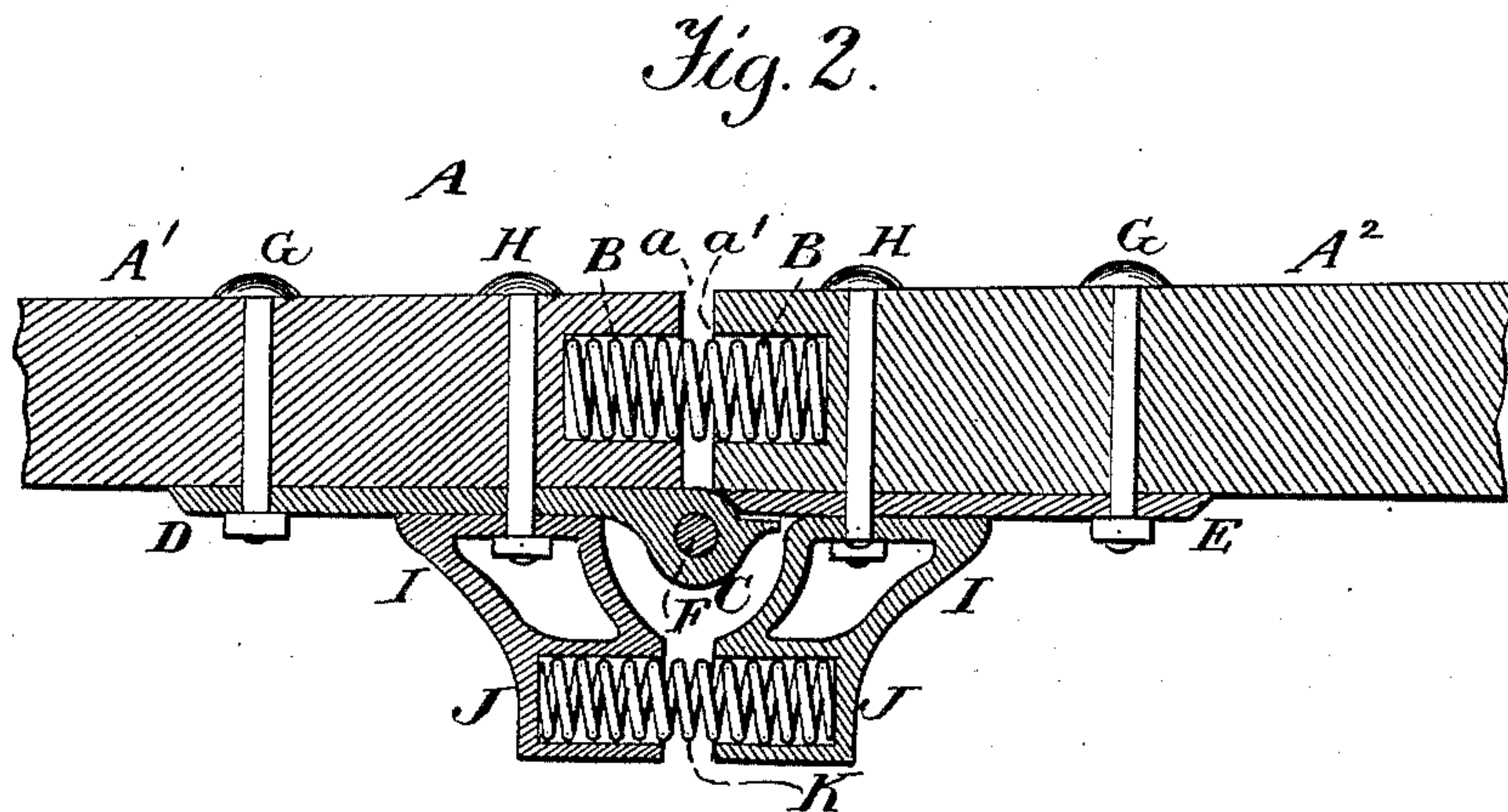
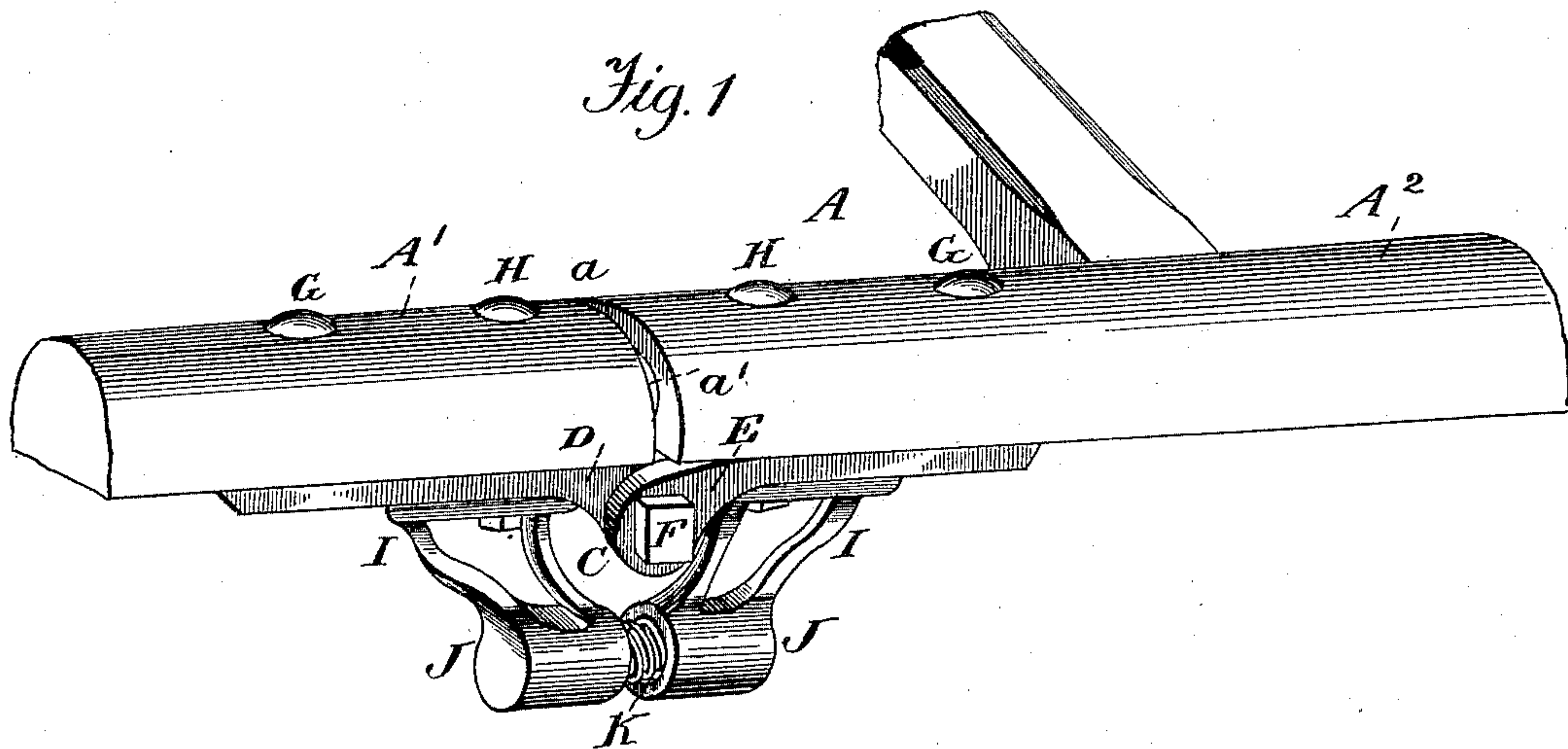


(No Model.)

J. T. FENTON.  
TWO WHEELED VEHICLE.

No. 436,407.

Patented Sept. 16, 1890.



*Witnesses.*  
*A. Ruppert*  
*H. A. Daniels*

*Inventor.*  
*Joseph T. Fenton*  
*Per*  
*Thomas P. Simpson*  
*Atty*

# UNITED STATES PATENT OFFICE.

JOSEPH T. FENTON, OF NEWTOWN, PENNSYLVANIA.

## TWO-WHEELED VEHICLE.

SPECIFICATION forming part of Letters Patent No. 436,407, dated September 16, 1890.

Application filed November 29, 1889. Renewed July 31, 1890. Serial No. 360,441. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH T. FENTON, a citizen of the United States, residing at Newtown, in the county of Bucks and State of Pennsylvania, have invented certain new and useful Improvements in Two-Wheeled Vehicles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The special object of my invention is to take up the horse motion in two-wheeled vehicles by dividing each of the shafts about six inches in front of the cross-bar and coupling the two parts together, as hereinafter fully described.

Figure 1 of the drawings is a perspective view showing my invention applied; Fig. 2, a vertical longitudinal section; Fig. 3, a detail view of the two parts of the hinge.

In the drawings, A represents the ordinary shaft of a two-wheeled vehicle separated at *a* and excised to form the space *a'*, which is occupied by an intermediate spiral spring B, which is held at the ends in central holes of the shaft-sections, as shown in the drawings. The shaft-sections A' A<sup>2</sup> are connected by a hinge C, consisting of two eye-straps D E and

pintle F, the latter being provided with an end thread and nut. This hinge is secured to the under side of shaft by the bolts G G and H H, the latter also fastening to the hinge and shaft-sections the brackets I I, which carry sockets J J to hold the intermediate coiled spring K. The springs B K take the back-thrust of the shaft-sections A<sup>2</sup> as they move up and down, prevent rattling, and greatly lessen jolting on rough roads.

My invention can be applied to the shafts of any two-wheeled vehicle and the spring made of any desired strength, according to the requirement of the particular cart or vehicle. The hinges are placed under the vehicle, so as not to interfere with the horse in case of accident; also, to prevent them from catching his tail as he is switching off flies.

What I claim, and desire to protect by Letters Patent, is—

The combination, with shaft-sections A' A<sup>2</sup>, separated by a hinge and intermediate spring B, of the coiled spring K, resting in sockets J of the two brackets I I, as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOS. T. FENTON.

Witnesses:

DAVID VOORHEES,  
JOHN S. MERRICK.