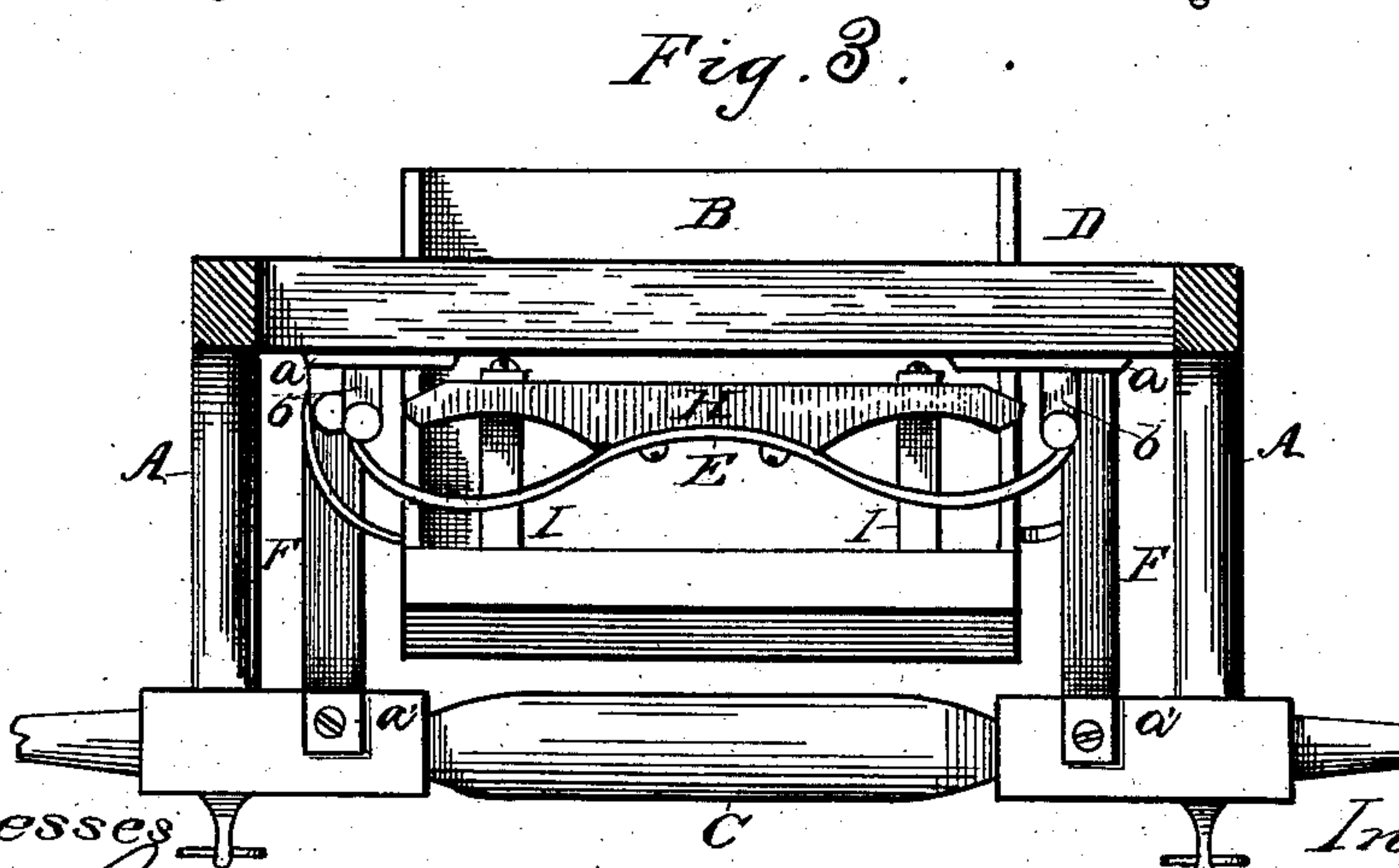
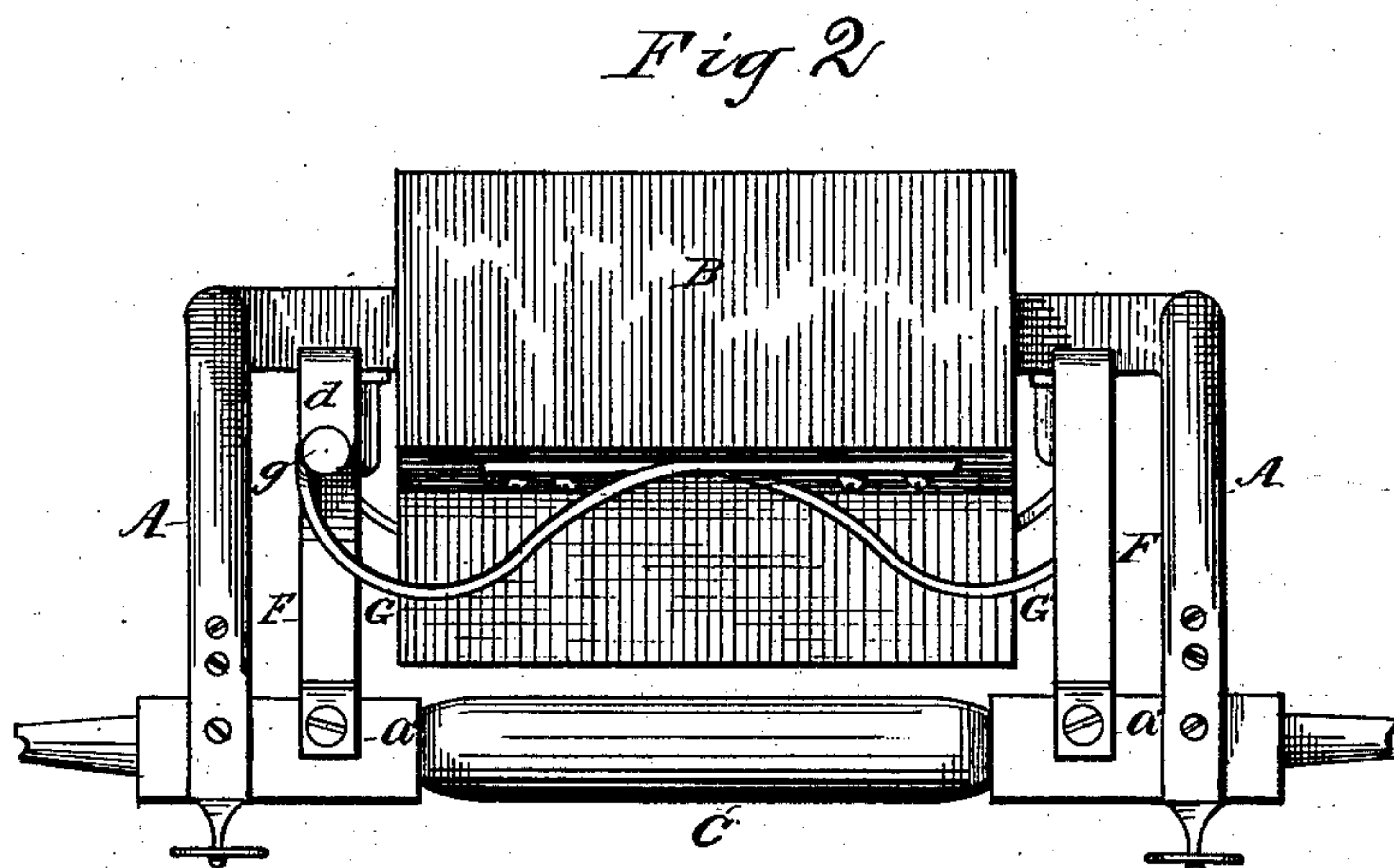
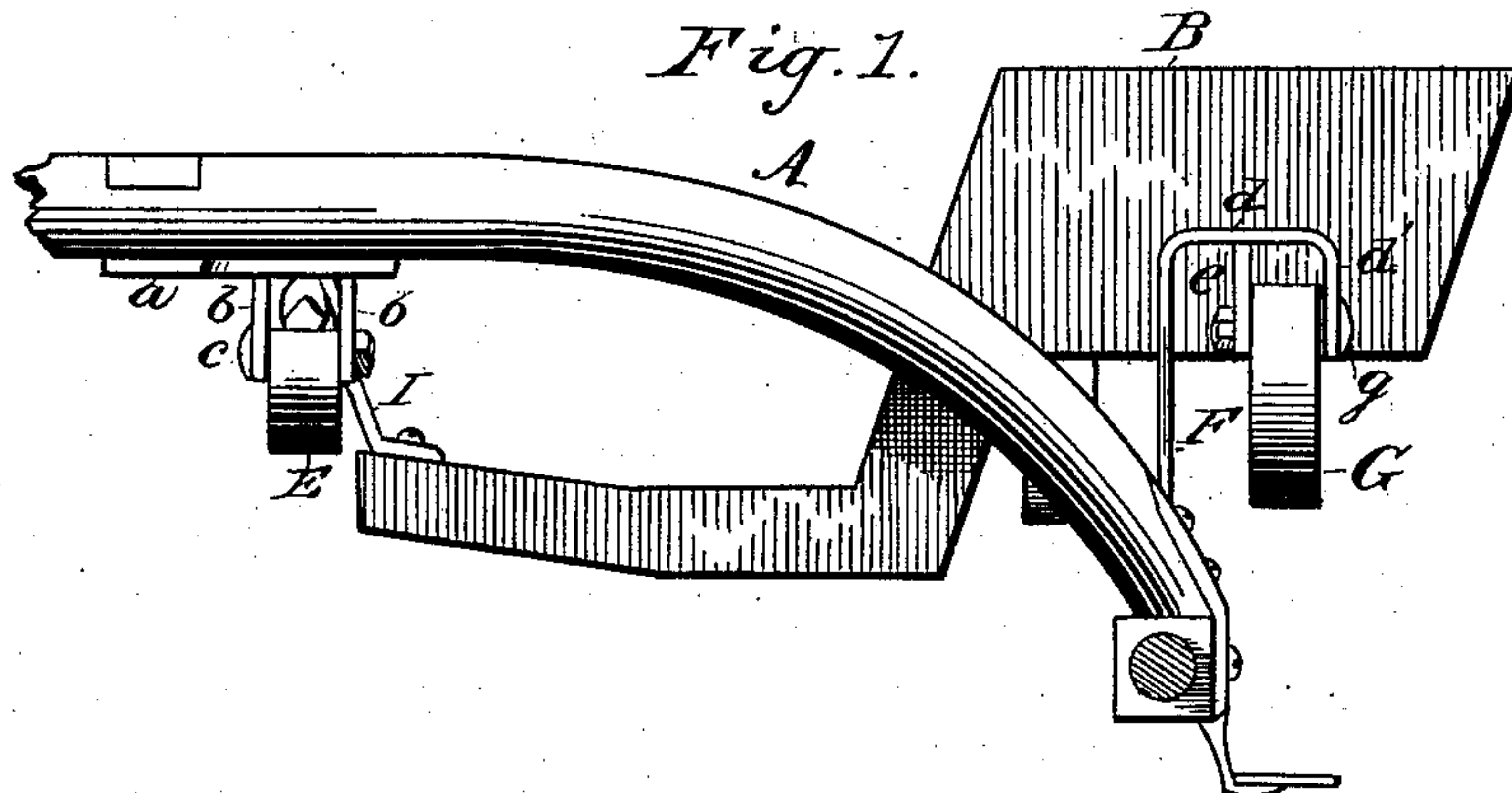


(Model.)

F. M. SIMMONDS.
TWO WHEELED VEHICLE.

No. 281,309.

Patented July 17, 1883.



Witnesses
J. M. Reynolds
J. A. Holden

Inventor
F. M. Simmonds
By Tallmadge & McDonald

UNITED STATES PATENT OFFICE.

FERNANDIZE M. SIMMONDS, OF INDIANAPOLIS, INDIANA.

TWO-WHEELED VEHICLE.

SPECIFICATION forming part of Letters Patent No. 281,309, dated July 17, 1883.

Application filed February 19, 1883. (Model.)

To all whom it may concern:

Be it known that I, FERNANDIZE M. SIMMONDS, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Two-Wheeled Vehicles; and I do hereby 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.

My invention relates to two-wheel vehicles provided with two rear half-springs and one front half-spring, of suitable construction, the body of the vehicle and the springs being arranged so as to bring the weight directly over the axle.

The construction and arrangement of the several parts of my improved vehicle will be hereinafter more fully described in the specification, and pointed out in the accompanying drawings, in which Figure 1 is a side elevation of the vehicle; Fig. 2, a rear elevation, and Fig. 3 a front elevation, of same.

The details of construction may be varied somewhat without departing from the spirit of my invention. The general construction which I prefer to adhere to is as follows:

Suitable clips, *a'*, are secured to the axle *C*, and from these clips rise vertical posts *F F'*, one of which, *F*, has its upper portion bent backward and downward, as at *d d'*, Fig. 1. The opposite post, *F'*, is bent forward and downward in the same manner, the bent portion extending beyond the axle. These bent portions are at equal distance beyond the axle. A shackle or suitable clip, *c*, is bolted to each bent arm *d*, and have bolted or secured to them the outer ends of the springs *G G'*, the inner ends of said springs being bolted to the bottom of the body *B*. This construction brings the axle centrally between the two springs *G G'*. The front part of the body is attached by means of suitable bars, *I*, to the spring-bar *H*, which has secured to it underneath, cen-

trally, a spring, *E*, the outer ends of which are secured in clips *b*, attached to the plate *a*, which is bolted to the under side of the cross-bar *D*. This spring *E* bows from its center downwardly and then upwardly to the clips *b*. The shafts *A* are secured to the axle outside of the posts *F F'*. By placing the axle centrally between the two rear springs the weight is thrown directly over said axle, and therefore removed from the back of the horse. By arranging the front and rear springs as described, an easy vertical motion and motion of translation are obtained, and the jerking up-and-down motion usual in two-wheel vehicles is obviated. Again, any sudden strain or unevenness of weight on either side of the seat is taken up and compensated for by the opposite spring. Steps are placed on the axle on each side of the body and near the shafts, so that the seat can be readily reached without climbing over the wheels.

Having thus described my invention, what I claim is—

1. A vehicle provided with posts *F F'*, rising from the axle, the upper end of one being bent forward and downward, the upper end of the other being bent equally backward and downward to form a support for the outer ends of two rear springs, said springs being thereby raised above the axle and placed at equal distances on each side of the axle, substantially as and for the purpose set forth.

2. In a two-wheel vehicle, the combination, with the body *B* and axle, of the posts *F*, having the bends *d d'*, the rear springs, *G*, secured to the body and the bent end of the posts, and the front spring, *E*, secured to the spring-bar and cross-bar, substantially as shown and described, and for the purpose set forth.

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

FERNANDIZE M. SIMMONDS.

Witnesses:

GEO. W. PITTS,

SALMON A. BUELL.