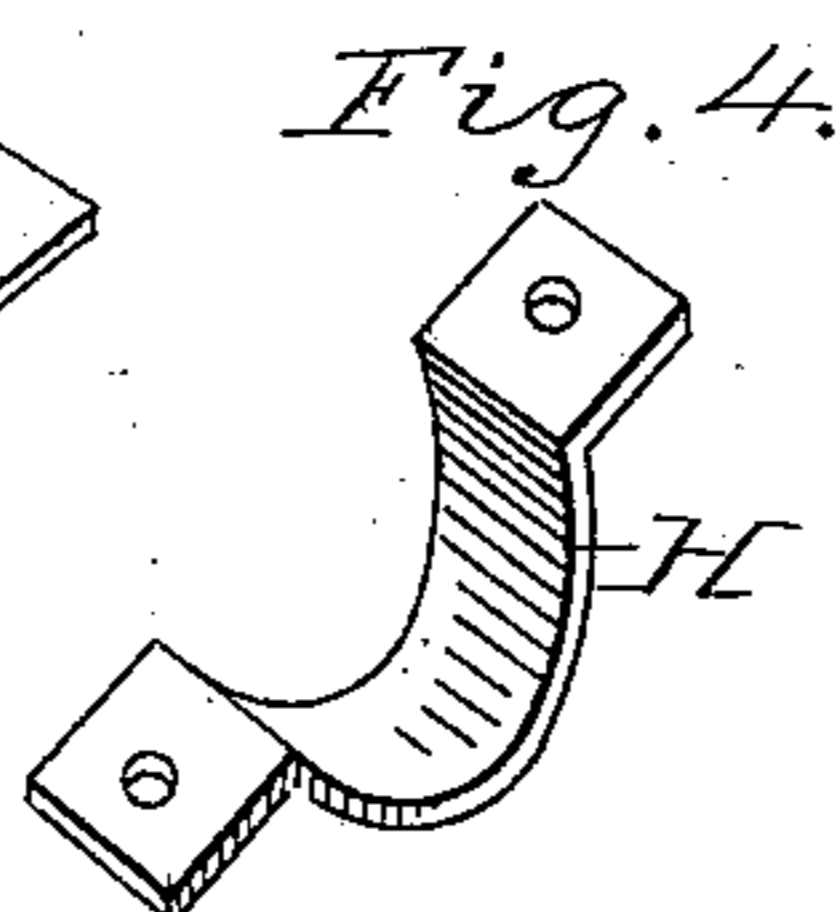
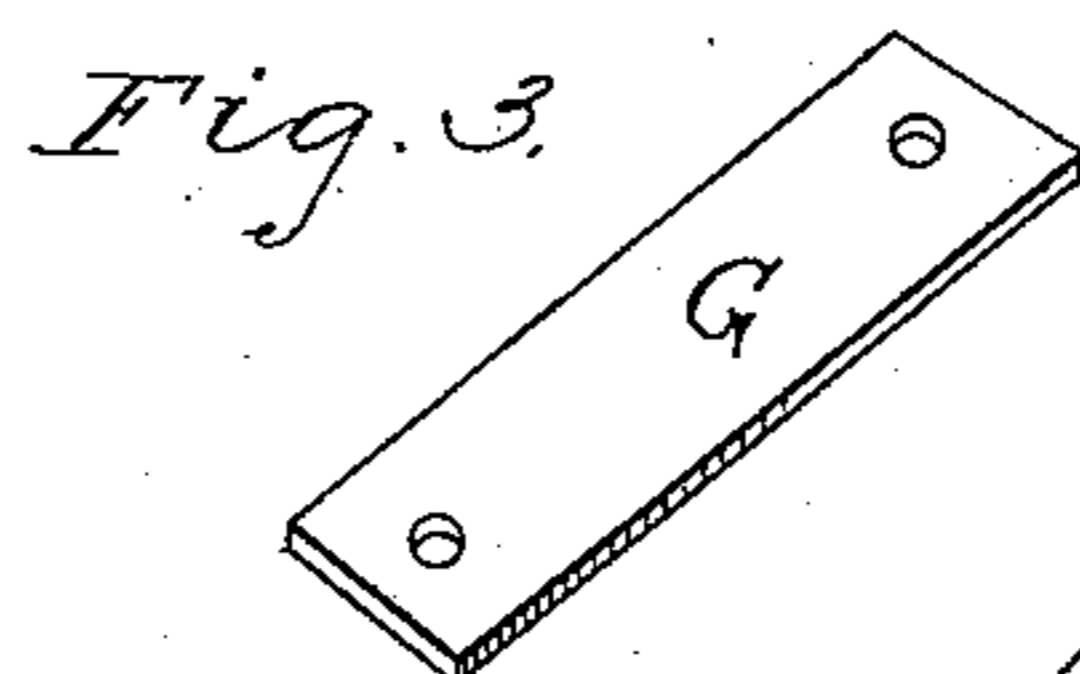
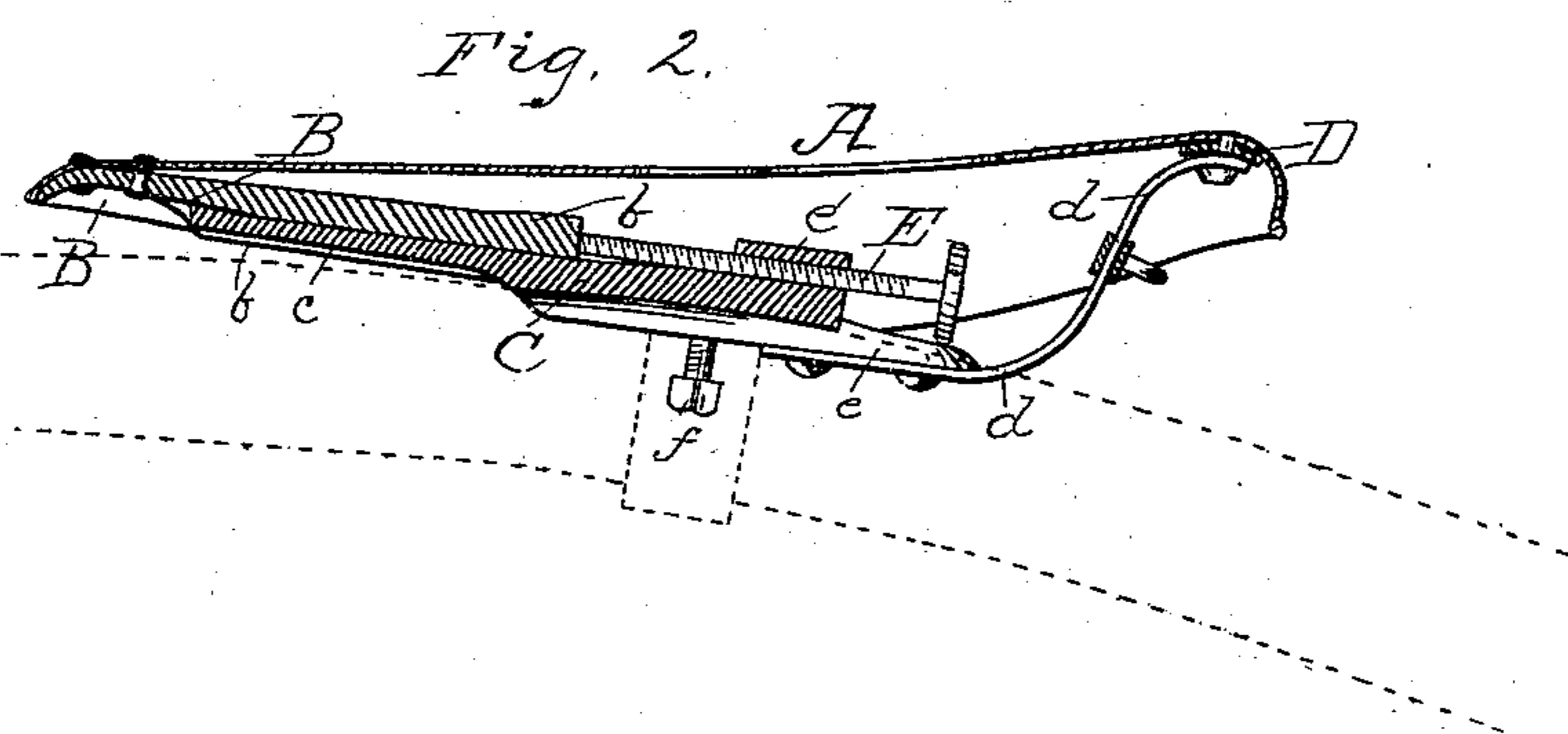
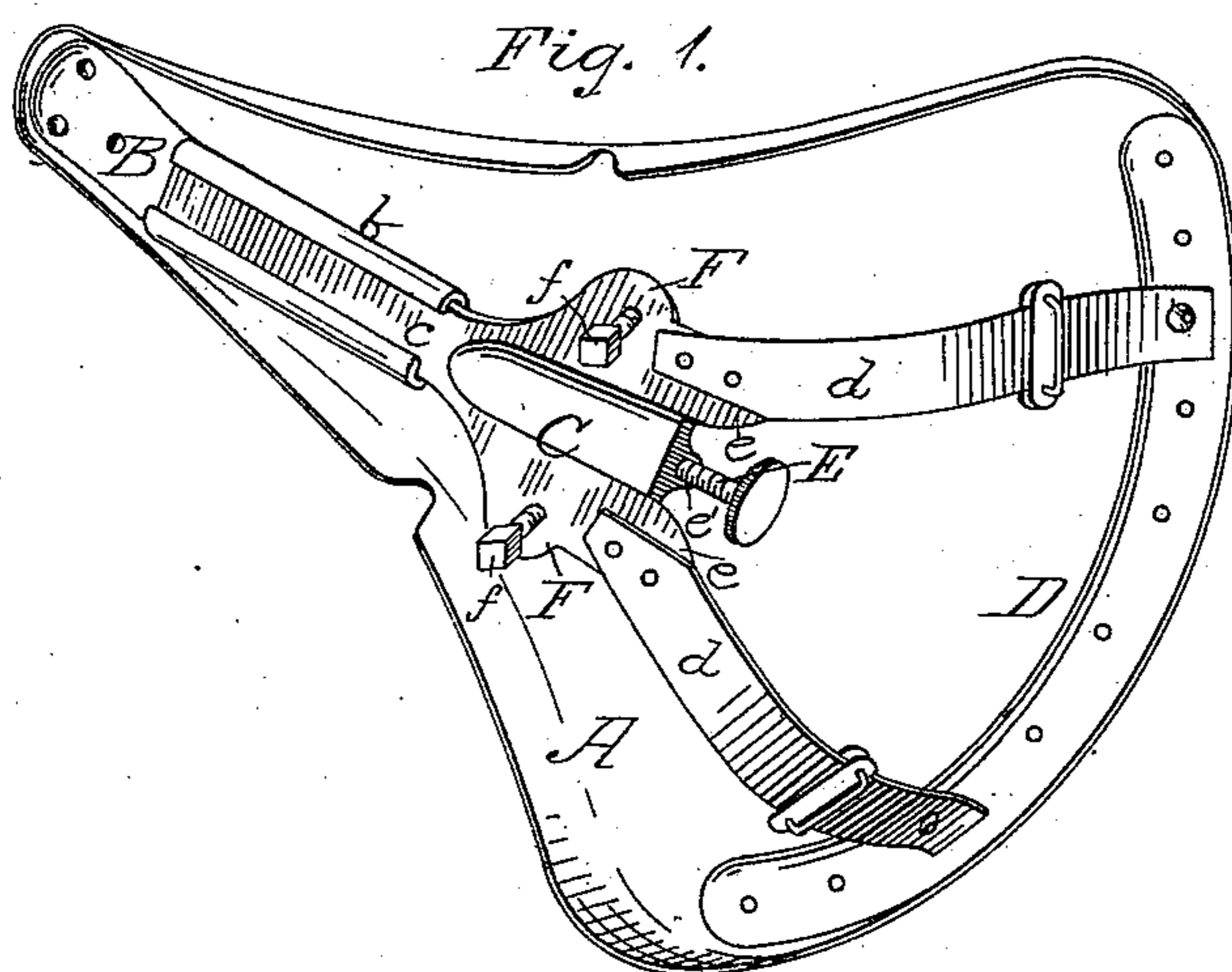


(No Model.)

G. W. MARBLE.
BICYCLE SADDLE.

No. 304,334.

Patented Sept. 2, 1884.



WITNESSES:

Ed. W. Schirach.

A. T. Williamson

George W. Marble.
INVENTOR

BY *James H. Coyne.*
ATTORNEY

UNITED STATES PATENT OFFICE.

GEORGE W. MARBLE, OF CHICAGO, ILLINOIS.

BICYCLE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 304,334, dated September 2, 1884.

Application filed March 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MARBLE, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Bicycle-Saddles; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 letters of reference marked thereon, which form a part of this specification.

Heretofore bicycle-riders have found it necessary to have one saddle for traveling long distances and another for racing, because for the first purpose an easy comfortable spring-seat has been found necessary, capable of being secured to the saddle-spring, and for the last purpose a small hard seat fastened immediately to the backbone has been found best. No seat has heretofore, to my knowledge, been invented capable of being made hard or soft, as occasion may require, and at the same time capable of being attached either to the saddle-spring or backbone, as necessary.

The object of my invention is to furnish a bicycle-saddle which can be used either for traveling long distances or for racing, and which is, moreover, provided with means for tightening the saddle or slacking it, as desired. These results I accomplish by means of a saddle-frame made in two parts—one part connected to and supporting the back of the saddle, and the other part connected to and supporting the neck of the same—the two parts reciprocating in and out after the nature of male and female devices, according to the manipulations of a gage-screw, by constructing that part of the saddle-frame connected to the back of the saddle so that spring-connections between the same may be used, and so that by the use of simple attachments said saddle may be attached to the saddle-spring or backbone of the bicycle, as desired.

In the drawings, Figure 1 is a perspective view of my improved bicycle-saddle, taken from beneath. Fig. 2 is a longitudinal vertical section, and Figs. 3 and 4 are detail views.

Reference being had to the drawings, A represents the saddle, of the usual form, made of

stiff leather, and having a slot in its center for ventilation. Supporting and riveted to the peak of the saddle is a stay-plate, B, which extends a suitable distance longitudinally and centrally under the saddle, and has its side edges turned downward and inward, so as to form a guide, *b*, to receive and direct the reciprocations of the tang *c* of the head C of the saddle-frame.

Under the rear or back edge of the saddle A is a stay, D, which strengthens and preserves the shape of that part of said saddle. Secured near each end of this stay D are the reversed S-springs *d d*, which have their other ends riveted to the ears *e e* of the head C. The pressure of these springs *d* on the head C has a tendency to keep the tang thereof within the guide *b*, and prevent the separation of the two parts, and at the same time supports the back of the saddle above the saddle-frame, and at such an altitude as is most conducive to the comfort of the rider. When the tang *c* of the head C is pushed by the pressure of the springs *d d* into the embrace of the guide *b* as far as it will go, the minimum of "slackness" to the saddle will be obtained, and when in this condition the saddle is suitable for traveling long distances. In order to take up this slack in the saddle, I place a lug, *e'*, on the upper side of head C, between the ears *e e*, and tap it longitudinally, as shown, for the reception of the screw E, one end of which bears against the contiguous end of the guide *b*, as shown, and the other and outer end of which is provided with a suitable hand-grasp. When the screw is manipulated to separate the guide *b* and head C, the tension of the springs *d d* is increased and the seat of the saddle drawn taut.

In order to adapt my saddle either to the saddle-spring or backbone of the bicycle, I make a longitudinal concave depression in the under surface of the head C, which corresponds to that portion of the backbone it is intended to ride, and also provide said head with lateral extending lugs F F, which are tapped to receive the cap-screws *f f*. If it is desired to set the saddle on the backbone, I place it thereon in such manner that the depression rides it. Then I surround the said backbone with the attachment or clip H,

(shown in Fig. 4,) and by means of the cap-screws securely attach the saddle to the backbone.

When it is desired to secure the saddle to the saddle-spring, the attachment G, Fig. 3, is used, being placed laterally under the spring, and, with the aid of the cap-screws, securely holding the saddle thereon.

Various improvements of the parts of my invention may be conceived; but any such performing the functions of the same in substantially the same manner I claim to be infringements.

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

1. The combination, in the frame of a bicycle-saddle, of a non-flexible female part having one end connected to the peak of said saddle, and having its side edges lapped or turned under to form a guide, a non-flexible male part having a tang reciprocating in the guide of

said female part, and having a head from which radiate springs to connect the same to the back of said saddle, and having a lug projecting from the upper surface, which is tapped longitudinally, and a screw passing through said lug and bearing against the contiguous end of said female part, as hereinbefore set forth.

2. The combination, with a bicycle-saddle, of the adjustable saddle-frame having laterally-projecting lugs and cap-screws entering the same, and having a longitudinal curvilinear depression in its under surface, and the attachments G or H, substantially as set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

GEORGE W. MARBLE.

Witnesses:

JAMES H. COYNE,

FRANK D. THOMASON.