

No. 627,676.

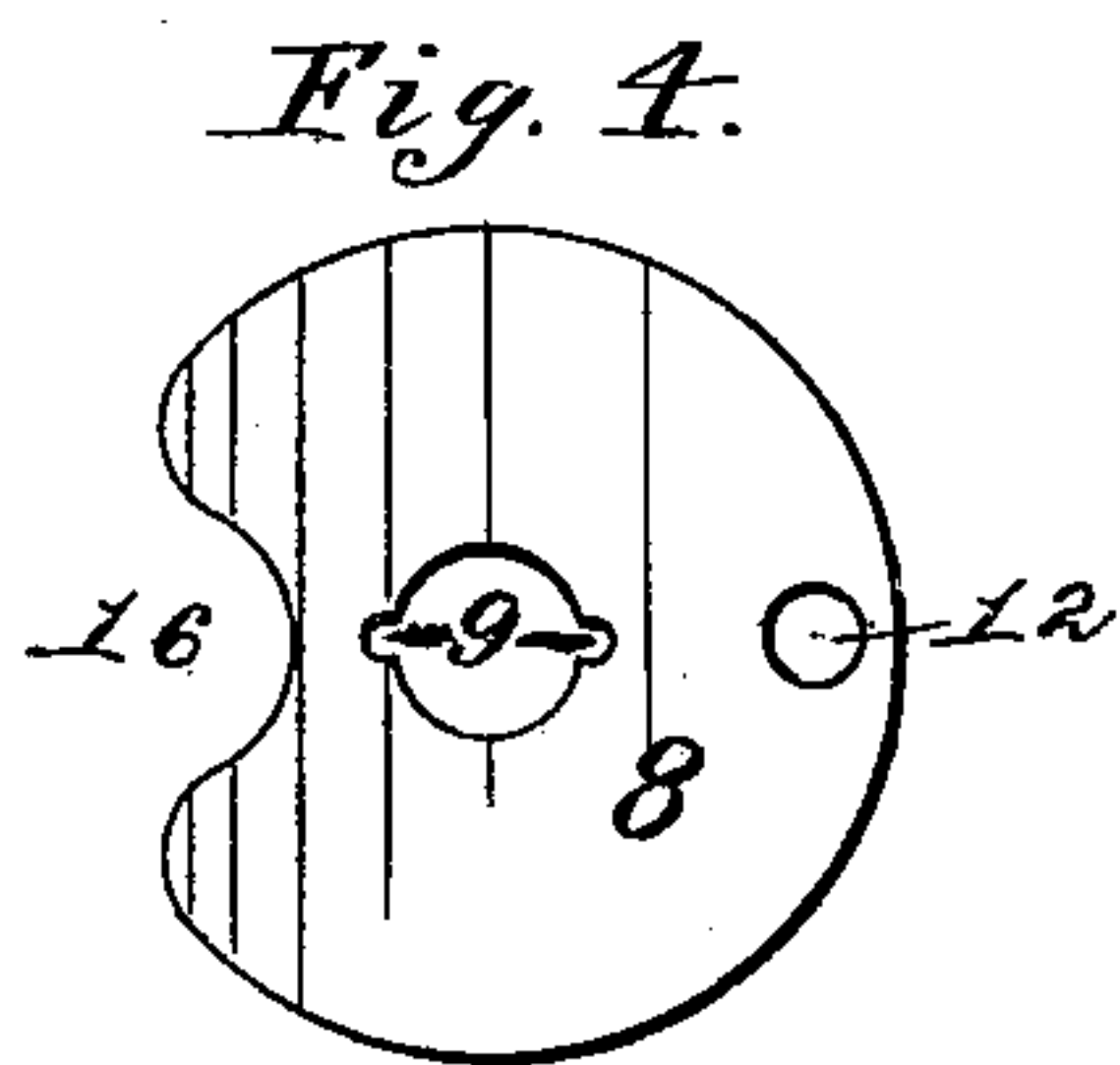
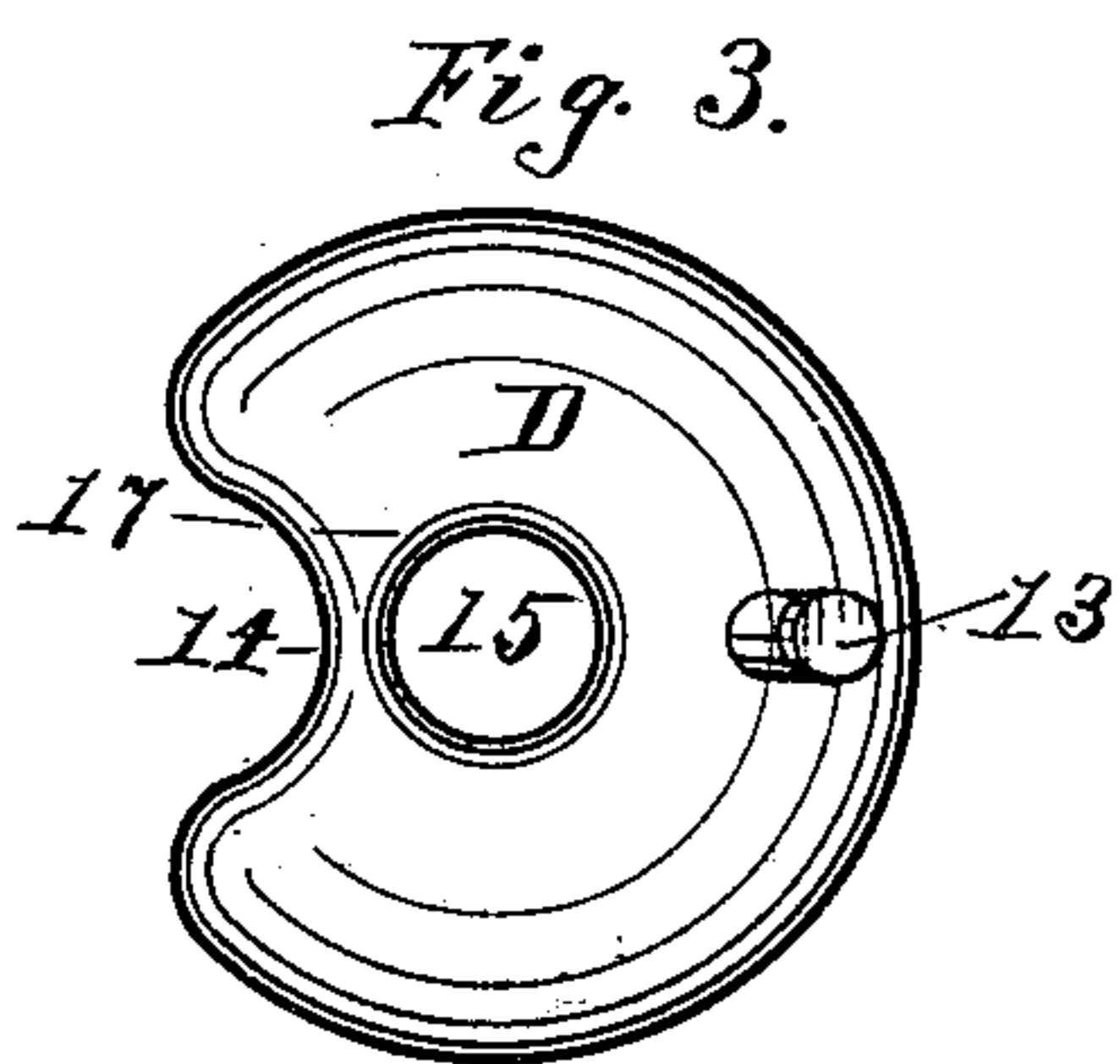
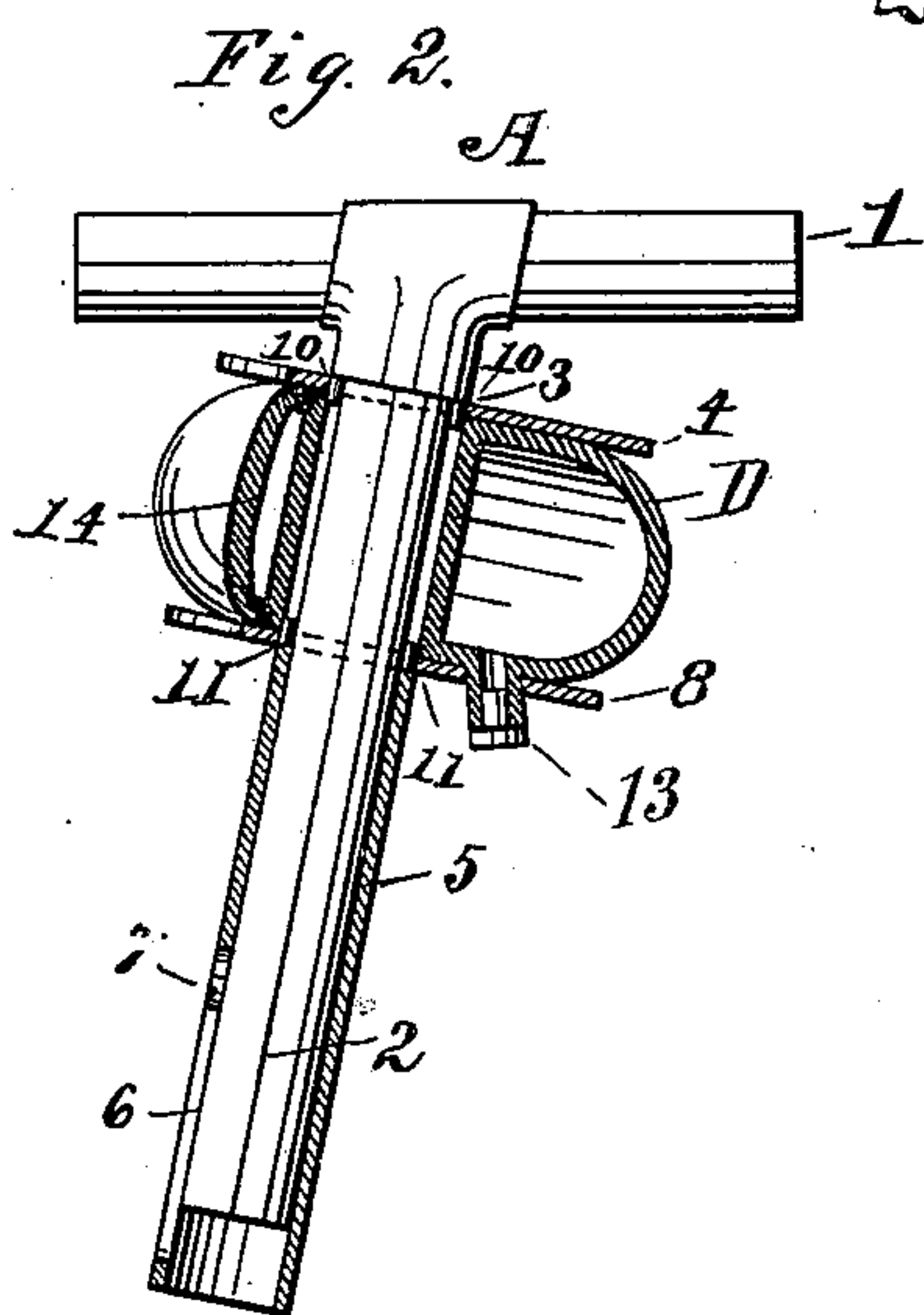
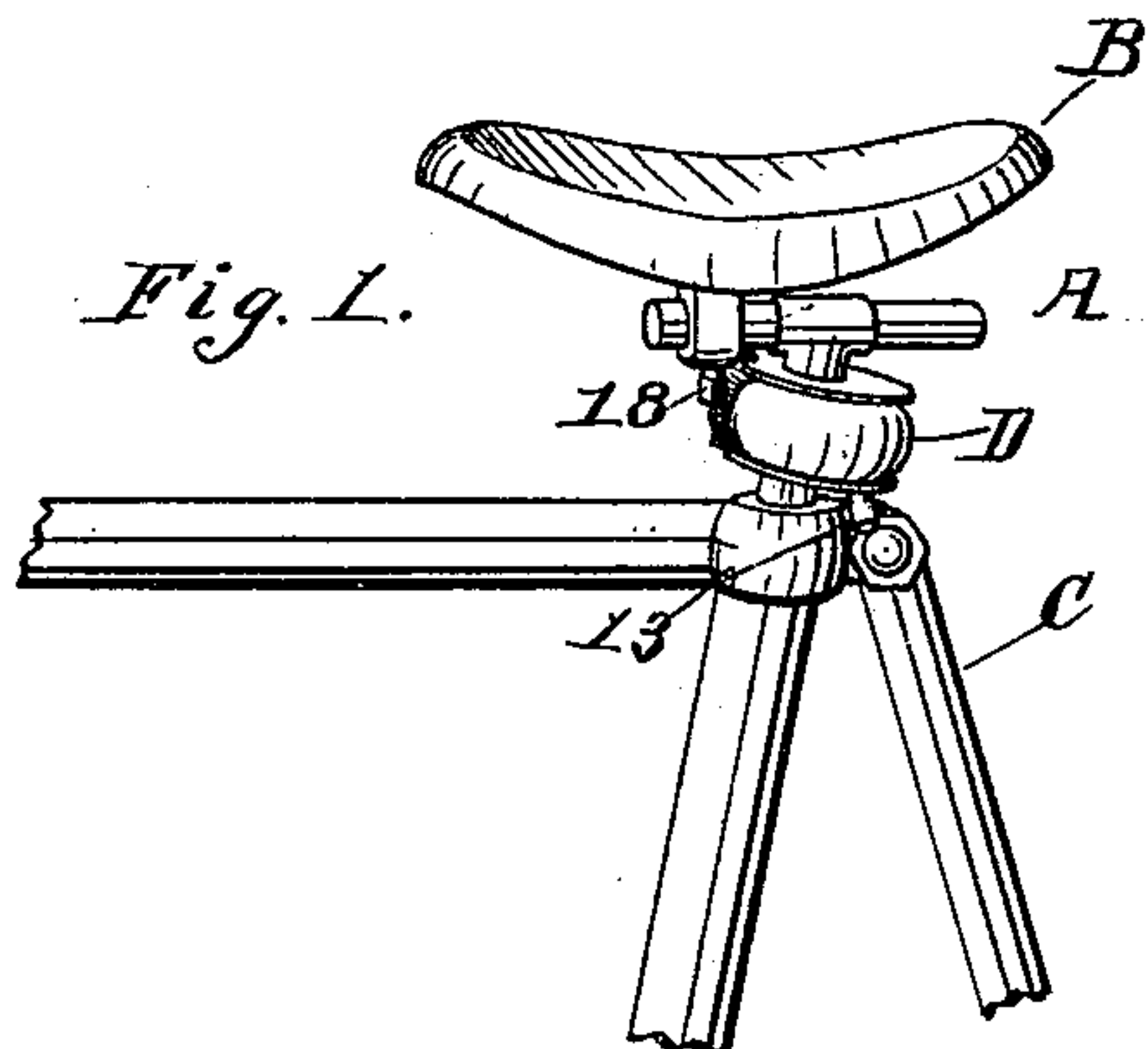
Patented June 27, 1899.

W. N. AMORY.

SPRING POST FOR SEATS OR HANDLE BARS OF BICYCLES.

(Application filed Sept. 5, 1898.)

(No Model.)



WITNESS:

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UNITED STATES PATENT OFFICE.

WILLIAM N. AMORY, OF NEW YORK, N. Y.

SPRING-POST FOR SEATS OR HANDLE-BARS OF BICYCLES.

SPECIFICATION forming part of Letters Patent No. 627,676, dated June 27, 1899.

Application filed September 5, 1896. Serial No. 604,928. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. AMORY, a citizen of the United States, residing in the city, county, and State of New York, have
5 invented a new and useful Improvement in Pneumatic Saddles for Bicycles, of which the following is a specification.

My invention relates to a cushion seat-post for bicycles, and has for its object the adaptation of air-cushions to the standard removable T-post of bicycles without lessening the advantages of the T-post in adjustment of the saddle thereon.

In the accompanying drawings, Figure 1 is
15 a side view of a portion of a bicycle having a T-post and saddle fitted with my invention. Fig. 2 is a side view of the T-post fitted with one form of my improved cushion, shown in section. Fig. 3 is a top view of one form of
20 my improved cushion, and Fig. 4 shows one form of bearing-plate adapted to use with said cushion.

My cushioned saddle-post is shown as a whole in Fig. 2 at A, the horizontal saddle-bearing being shown at 1, attached to the usual downwardly-projecting stem 2. The usual mode of attachment of the saddle B to the post A is shown in Fig. 1. The stem 2 is provided at its upper end with a shoulder 3,
30 under which the bearing-plate 4 is adapted to be placed surrounding the stem 2. The greater portion of the length of the stem 2 is surrounded by the sleeve 5, having an appropriate slot, as 6, which coöperates with
35 the pin 7 on the stem 2 to prevent the latter rotating within the sleeve. The sleeve 5 carries at its upper end the lower bearing-plate 8. (Shown in Fig. 4.) The slots 9 in the central perforation of plate 8 are also provided in the upper plate 4, the two plates being
40 similar in shape. The pins 10 and 11 respectively coöperate with the slots 9 in upper and lower plates 4 and 8 to prevent their rotation. The aperture 12 is provided in plate 8 to accommodate the valve 13 on the pneumatic
45 cushion D. (See Fig. 3.) This cushion has a generally annular shape and is intended to surround the stem 2 of the saddle-post, as shown in Fig. 2. It is provided with a flat-

tened portion 14 on one side and a central
50 aperture 15 for accommodation of the stem 2. The two bearing-plates 4 and 8, between which the cushion D is adapted to rest, as shown, are provided with reëntrant curved portions 16, corresponding to the reëntrant curve 17,
55 formed by the flattened part of the cushion 14. The provision of this reëntrant curve in the cushion and plates is highly important in the adaptation of my device to standard methods of securing the saddle to its post.
60 This point is illustrated in Fig. 1, wherein is shown the usual screw-bolt 18, whereby the saddle-clip is adjustably fastened to the bearing 1 on the post A. This mode of attachment of the saddle is provided in order that
65 individual preference in regard to position of the saddle may be consulted in the placing thereof. It often occurs that it is desired to place the saddle near the stem 2, in which case the edge of the cushion would interfere with the bolt 18 were not the flattened
70 portion 14 provided to give room for said bolt.

I have found by experiment that the symmetrical flattening of an air-cushion of the form shown does not interfere with the functions of said cushion in deadening jolting shocks.

What I claim is—

As an article of manufacture adapted for use with adjustable saddles, a T-post, a sleeve
80 surrounding the stem thereof, bearing-plates surrounding said stem, one on said stem and the other on said sleeve, each of said plates being provided with a reëntrant curved portion, and a pneumatic cushion surrounding
85 said stem between said plates and provided with a reëntrant curved portion corresponding to said curves on said plates for permitting the adjustable fastening of the saddle to approach the stem, substantially as described.
90

Signed in the city and county of New York and State of New York this 4th day of September, A. D. 1896.

WILLIAM N. AMORY.

Witnesses:

CHAS. N. ASHLEY,
LIZZIE C. MANNING.