

(No Model.)

R. F. WALL.
SPRING PEDAL.

No. 553,797.

Patented Jan. 28, 1896.

Fig. 1.

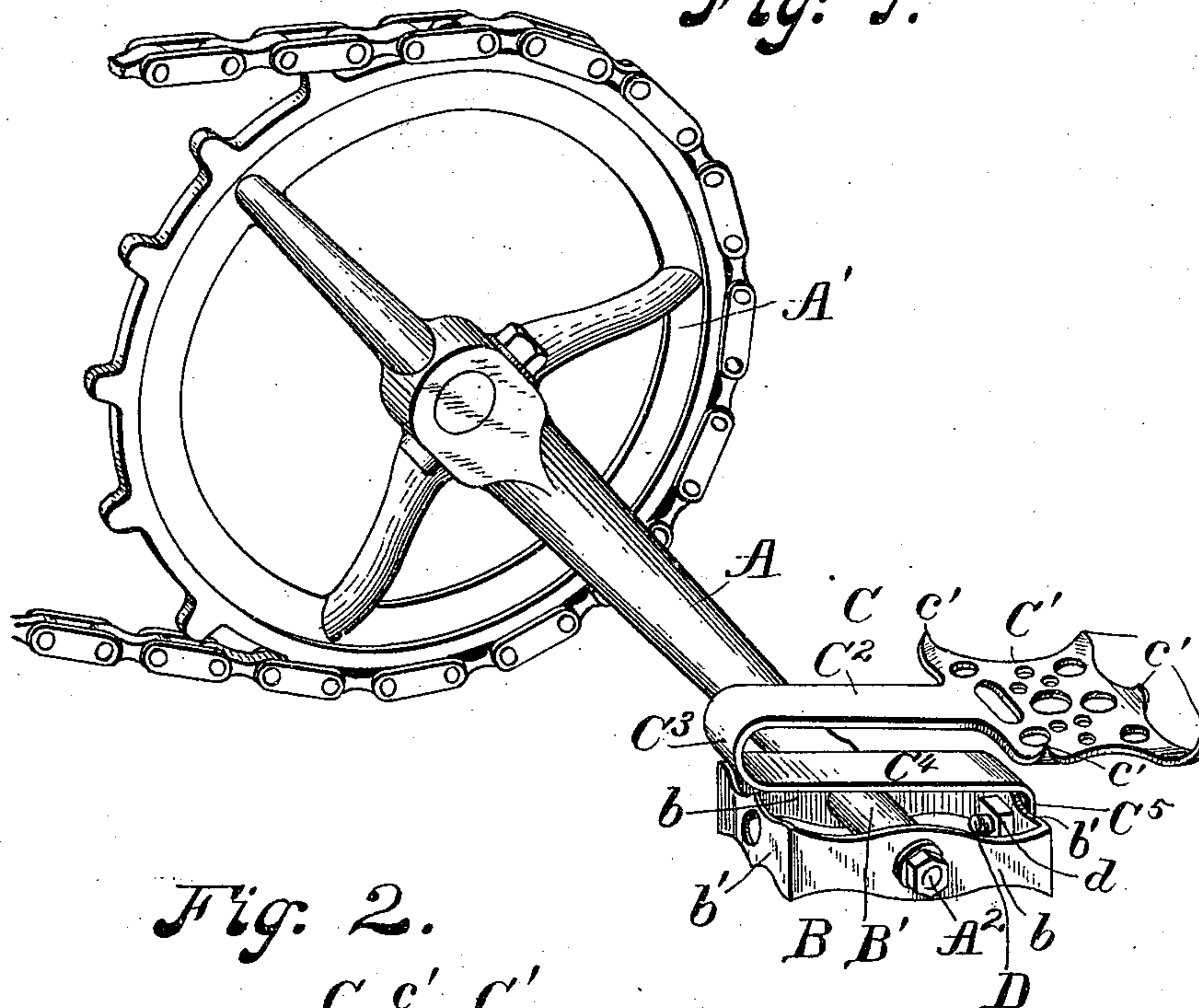
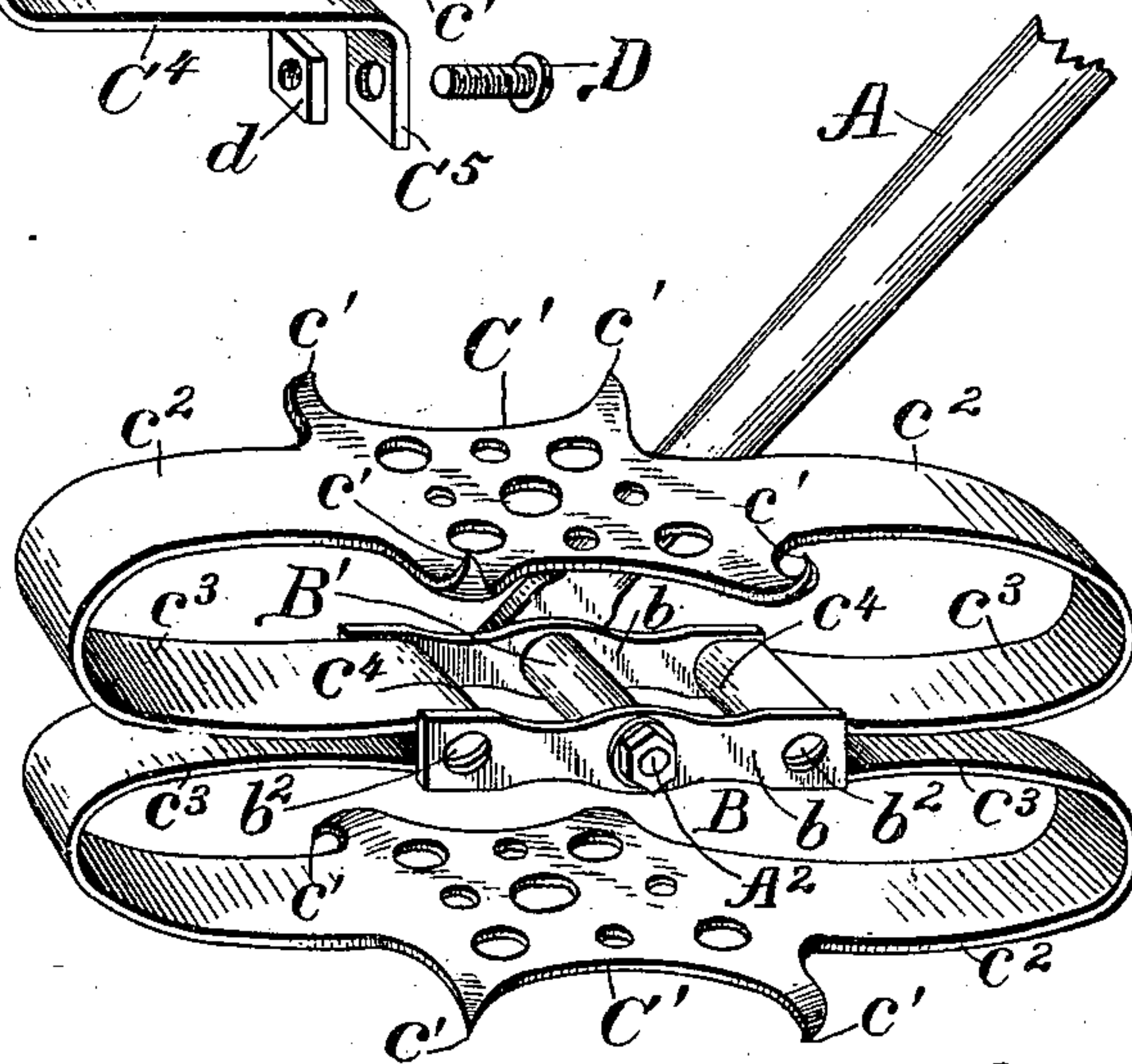
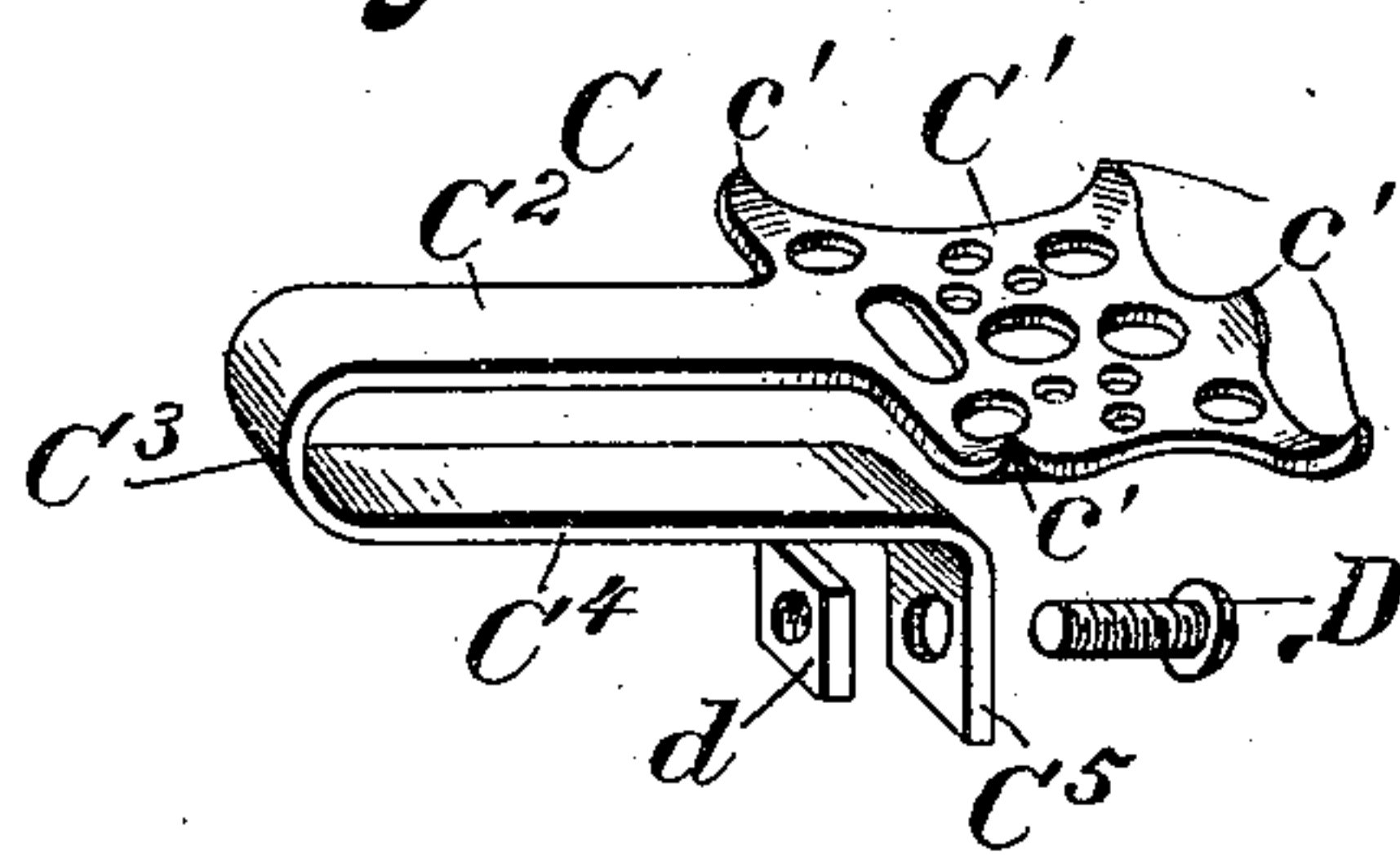


Fig. 2.



Witnesses

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Fig. 3.

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UNITED STATES PATENT OFFICE.

ROBERT FRANCIS WALL, OF MENOMINEE, MICHIGAN.

SPRING-PEDAL.

SPECIFICATION forming part of Letters Patent No. 553,797, dated January 28, 1896.

Application filed June 10, 1895. Serial No. 552,333. (No model.)

To all whom it may concern:

Be it known that I, ROBERT FRANCIS WALL, a citizen of the United States, residing at Menominee, in the county of Menominee and State of Michigan, have invented certain new and useful Improvements in Spring-Pedals; 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 improvements in spring-pedals for bicycles, tricycles, or any machinery driven by foot-power, and it consists of a spring foot-plate applied to the pedal and in certain novel features which will be hereinafter fully described and claimed.

Referring to the accompanying drawings, in which like letters of reference designate corresponding parts in the several views, Figure 1 represents a perspective view of my improved spring-plate applied to the pedal of a bicycle. Fig. 2 represents a perspective view of the spring-plate and its clamping-screw detached. Fig. 3 represents a perspective view of a modified form of spring-plate, showing a pair of the said plates attached to the pedal of a bicycle.

A designates the crank, A' the sprocket-wheel, and A² the pedal-pin of a bicycle.

The pedal B consists of a sleeve B' which passes over the pedal-pin and has the bearings inclosed therein, end plates b, and connecting-plates b'.

The spring-plate C is formed, as shown in Fig. 2, with a foot-plate C', having the points c' turned up to prevent the foot from slipping, and the spring portion C² extending back from the said foot-plate, bent over upon itself as at C³, extending forward as at C⁴, and finally terminating in a downwardly-projecting lug C⁵, which latter is perforated to receive the clamp-screw D. The foot-plate C' may be perforated as shown to diminish the weight. The spring-plate is attached to the pedal by means of the clamp-screw D, which passes through the lug C⁵ and one of the connecting-plates b', and receives a nut d on its inner end, thus clamping the end of the spring-plate to one of the connecting-plates, as shown in Fig. 1.

In Fig. 1 I have shown a single spring-plate attached to the pedal, but it will be obvious that, if desirable, one such plate may be attached to each of the connecting-plates, one extending above and the other below the pedal, so that one will balance the other and facilitate the placing of the foot upon the foot-plate C'.

In Fig. 3 I have shown a slight modification of the device, in which case the pedal is provided with connecting-rods b² in lieu of the plates b', and the foot-plates C' are formed with spring-plates c² extending both forwardly and backwardly and bent round beneath the foot-plate as at c³, and finally bent back upon themselves to form the hooks c⁴, which are sprung over the connecting-rods b², thus holding the spring-plates in position. In this instance I have shown two spring-plates, one above and one below the pedal, in which case the hooks c⁴ of one plate are sprung over the corresponding hooks of the other. It will be obvious that only one of these plates may be used if desirable.

It will be understood that I do not wish to confine myself to the precise construction shown in the drawings, as various modifications may be made in the form, shape, or method of attachment without departing from the spirit of the invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination with a pedal, of a foot-plate having a spring extension bent round under the said plate and attached to the pedal, substantially as described.

2. The combination with a pedal, of a perforated foot-plate having points turned up to prevent the foot from slipping, and spring extensions from the said foot-plate bent round beneath the said plate and attached to the pedal, substantially as described.

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

ROBERT FRANCIS WALL.

Witnesses:

L. M. PACKARD,
ARTHUR K. HOLMES.