

(No Model.)

N. NILSON.
VELOCIPED PEDAL.

No. 580,706.

Patented Apr. 13, 1897.

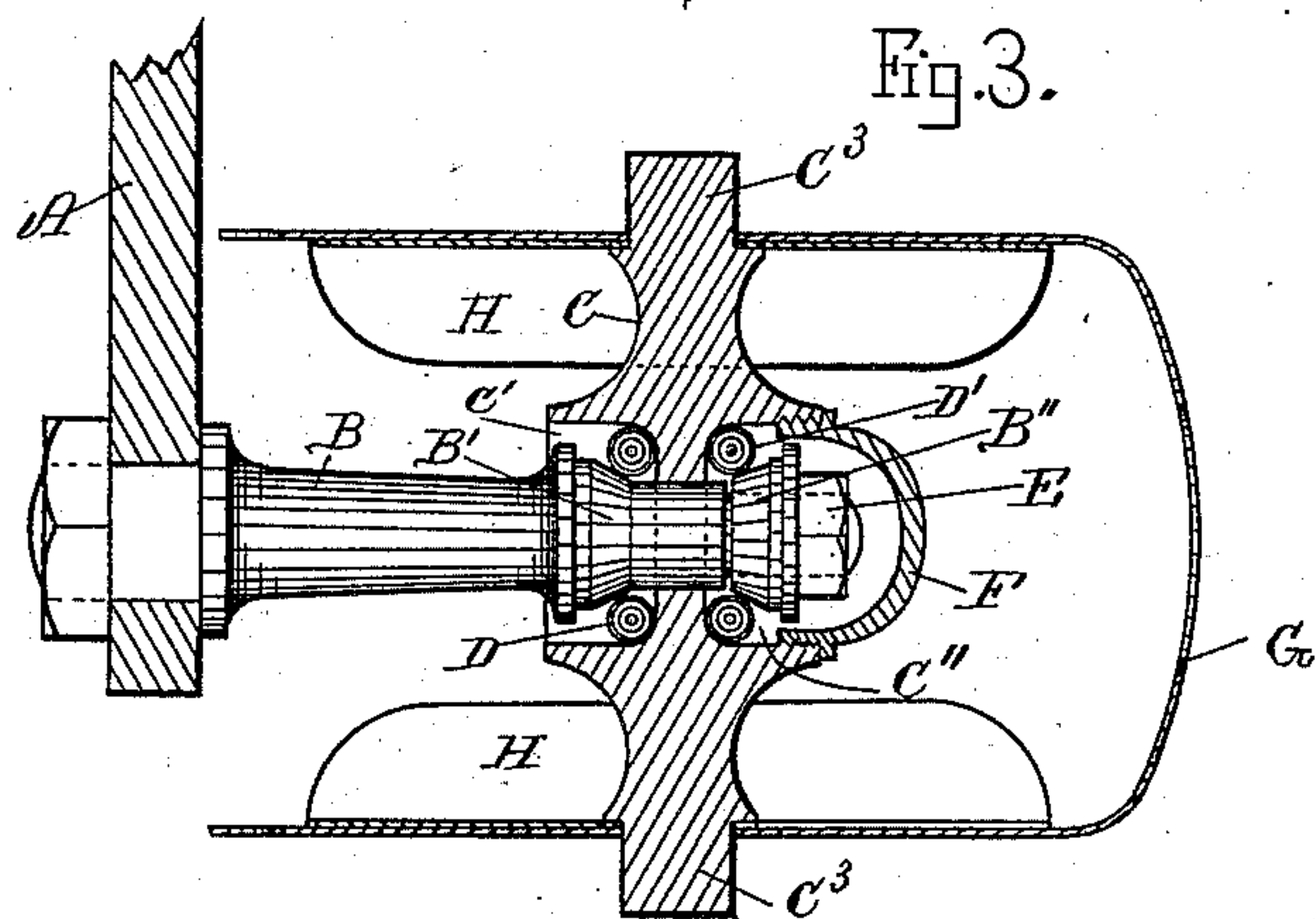
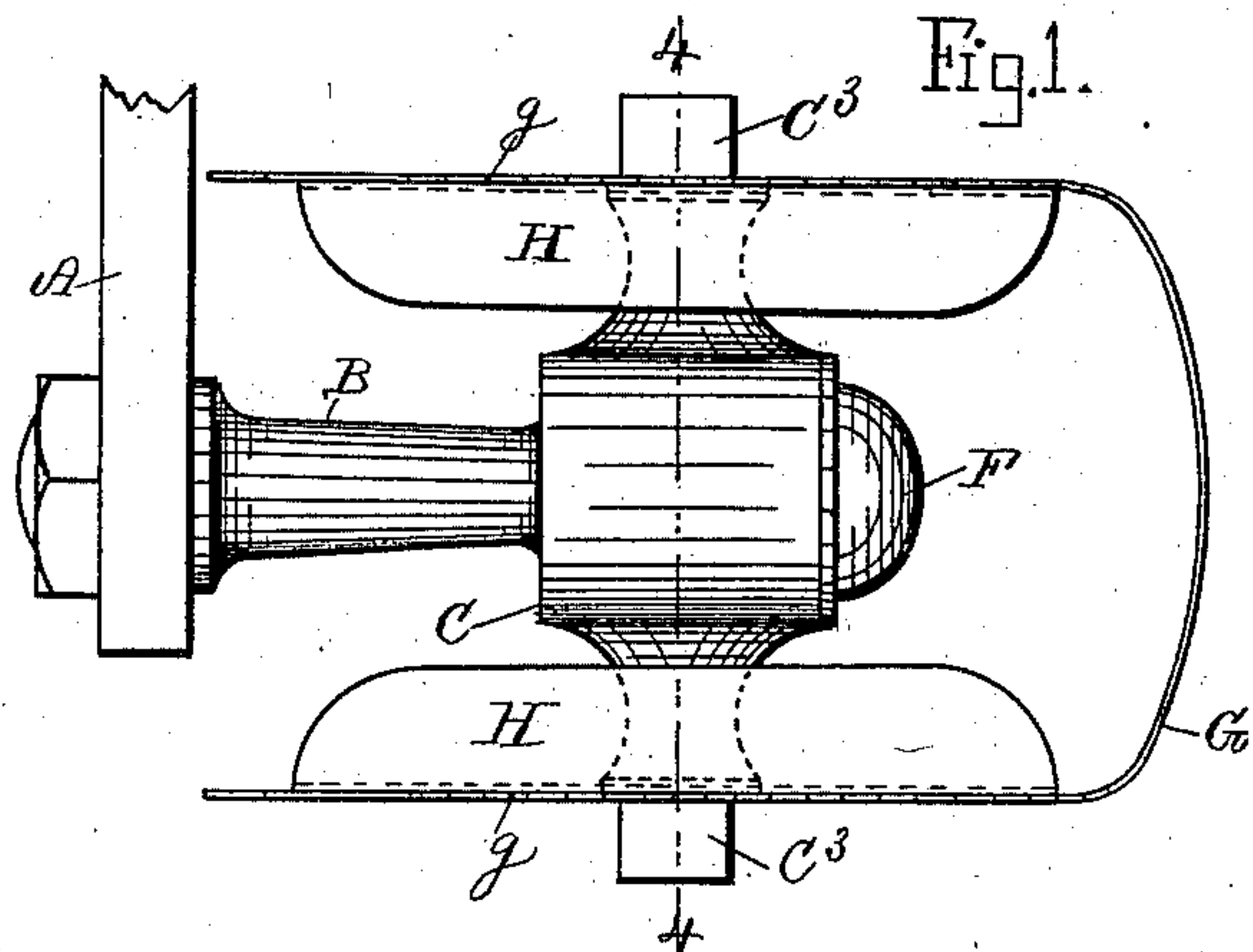
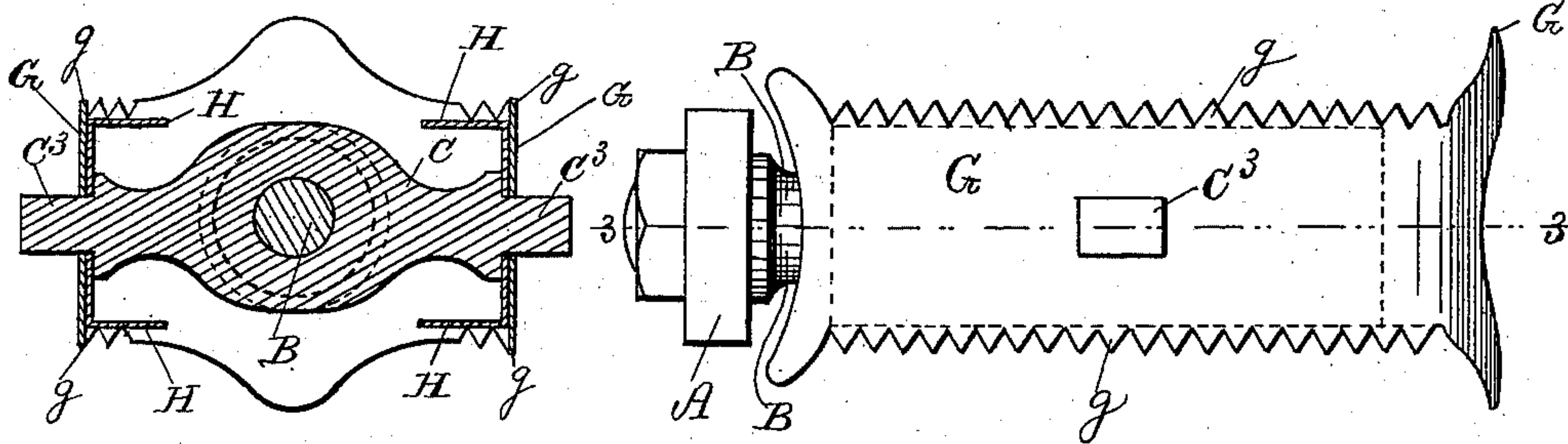


Fig. 4.

Fig. 2.



Witnesses.

Lauritz W. Möller.
Charles E. Maxwell.

Inventor.

Nils Nilson.
by Allan Andren
his atty.

UNITED STATES PATENT OFFICE.

NILS NILSON, OF NEEDHAM, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO
ERIK V. ULFVES, OF SAME PLACE.

VELOCIPED-PEDAL.

SPECIFICATION forming part of Letters Patent No. 580,706, dated April 13, 1897.

Application filed June 5, 1896. Serial No. 594,456. (No model.)

To all whom it may concern:

Be it known that I, NILS NILSON, a citizen of Sweden, and a resident of Needham, in the county of Norfolk and State of Massachusetts, have invented new and useful Improvements in Velocipede-Pedals, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in velocipede-pedals; and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a top plan view of the improved pedal. Fig. 2 represents a side elevation of the same. Fig. 3 represents a longitudinal section on the line 3 3 shown in Fig. 2, and Fig. 4 represents a cross-section on the line 4 4 shown in Fig. 1.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, A represents the crank, to which is secured the crank-pin B in any well-known manner. On the crank-pin B is journaled the cross-bar C, having on its opposite sides annular pockets C' C'', containing anti-friction-balls D D', as shown in Fig. 3.

B' is a cone-bearing for the balls D, which cone-bearing is preferably made integral with the crank-pin B. B'' is a similar cone-bearing for the balls D'. Said cone-bearing B'' is screwed onto the end of the crank-pin C and firmly held in place thereon, preferably by means of a check-nut E, as shown in Fig. 3.

F is a dust cap or cover screwed into the outer end of the annular pocket C'', as shown in said Fig. 3.

The cross-bar C is provided with square or polygonal ends C³ C³, which are received in correspondingly-shaped perforations in the U-shaped sheet-metal pedal G, which is preferably made of spring steel or metal and provided with serrated edges g g, as shown.

To the insides of the pedal G are secured sheet-metal strengthening and tread plates or foot-rests H H, as shown, said plates H H being made L-shaped in section, as shown in Fig. 4.

The middle portion of the cross-bar C also serves as a support for the sole of the boot or shoe of the wearer.

If so desired, this my improved pedal may be provided with rubber, cork, or equivalent tread-surfaces without departing from the essence of my invention.

What I wish to secure by Letters Patent and claim is—

In a velocipede-pedal in combination a crank-pin and a single cross-bar antifrictionally journaled on said pin and its ends connected to a U-shaped pedal-plate and L-shaped foot-rests and strengthening-plates secured to the interior of the said pedal-plate substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 30th day of March, A. D. 1896.

NILS NILSON.

Witnesses:

ALBAN ANDRÉN,
LAURITZ N. MÖLLER.