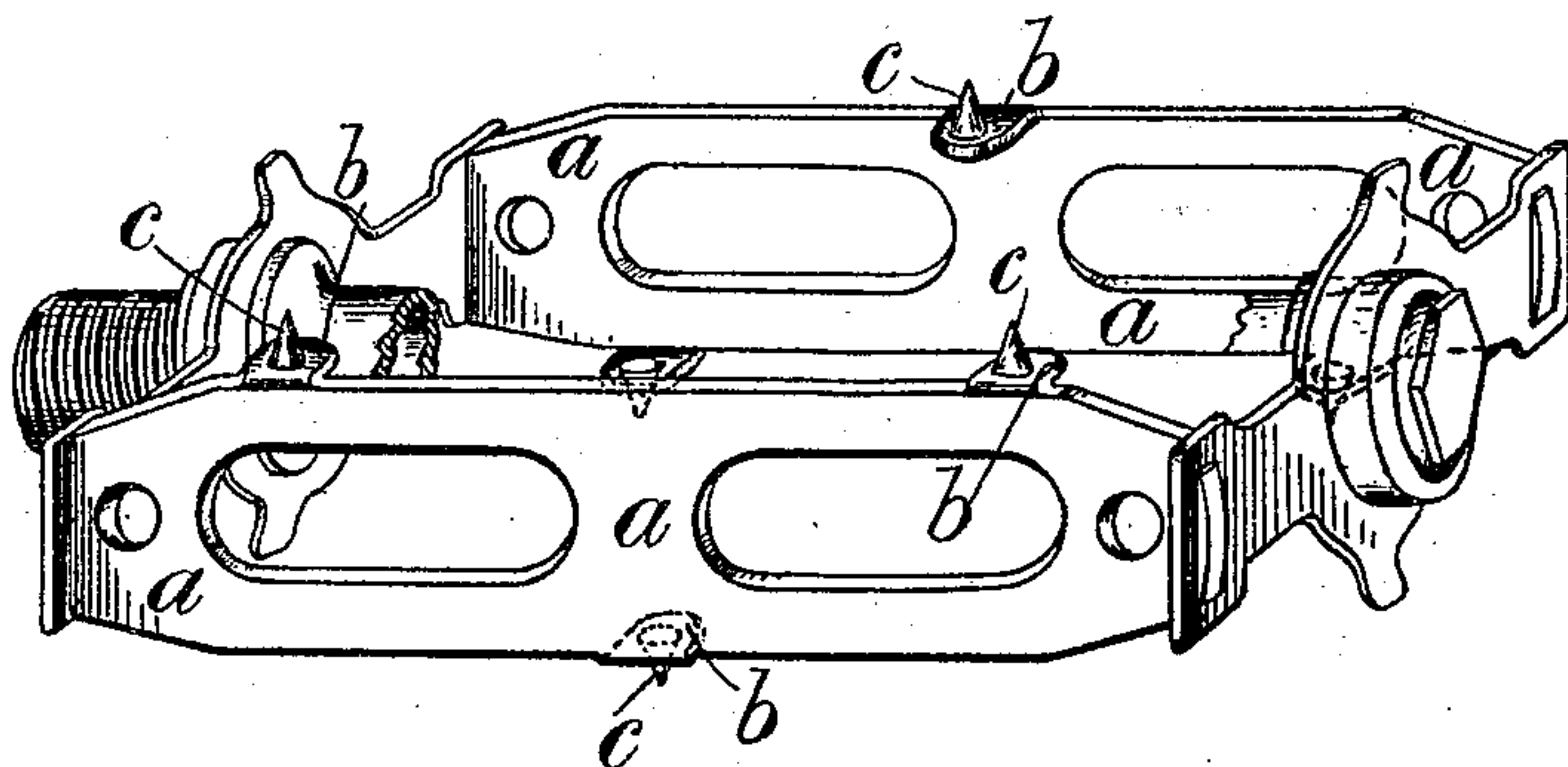


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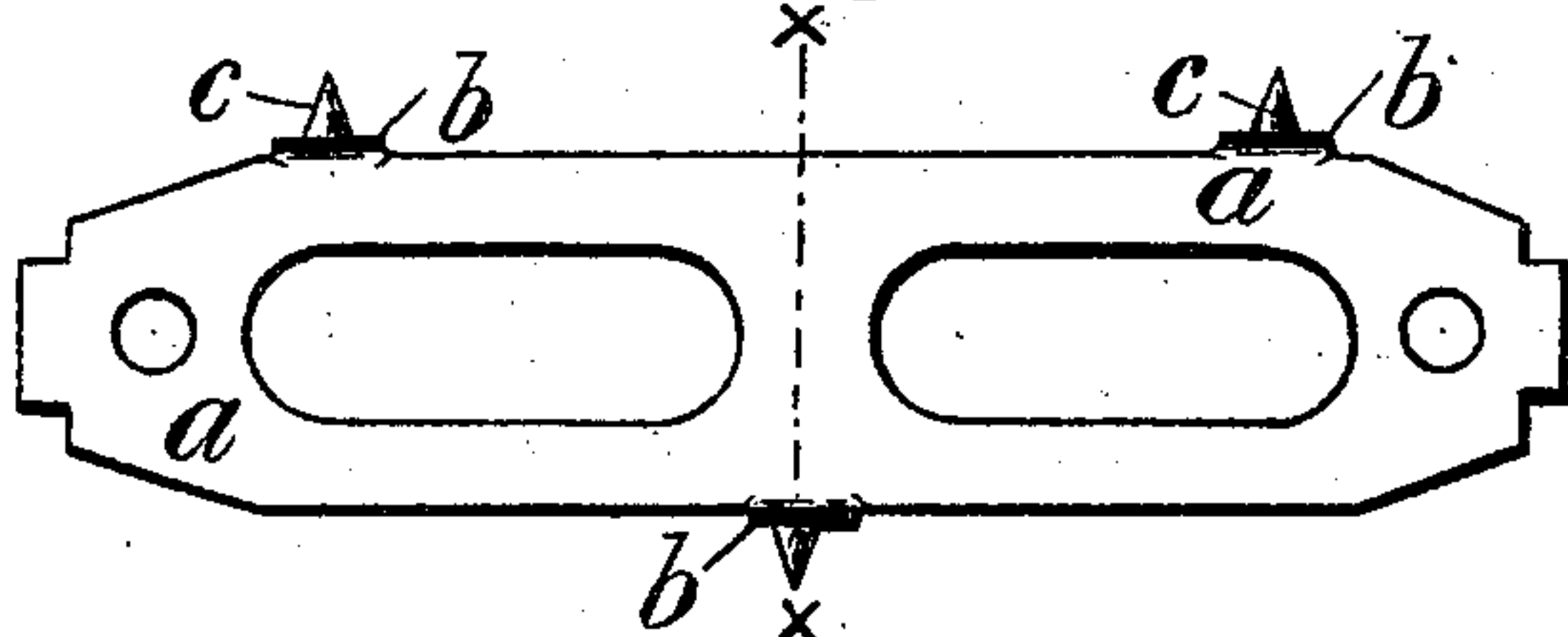
PATENTED MAY 8, 1906.

A. W. CHESTERMAN.  
CYCLE PEDAL PLATE.  
APPLICATION FILED JUNE 6, 1905.

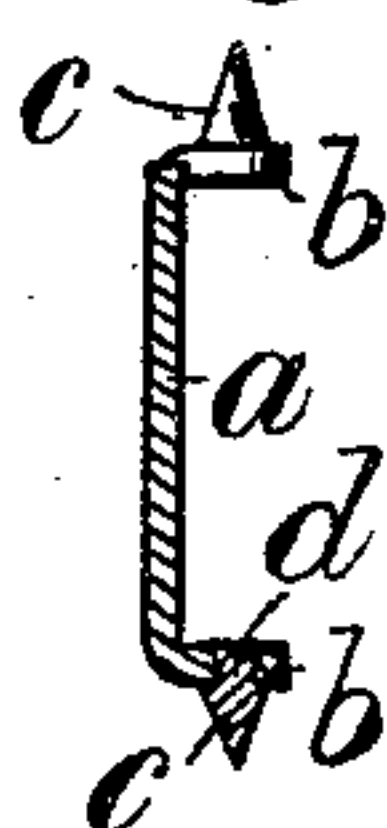
*Fig. 1*



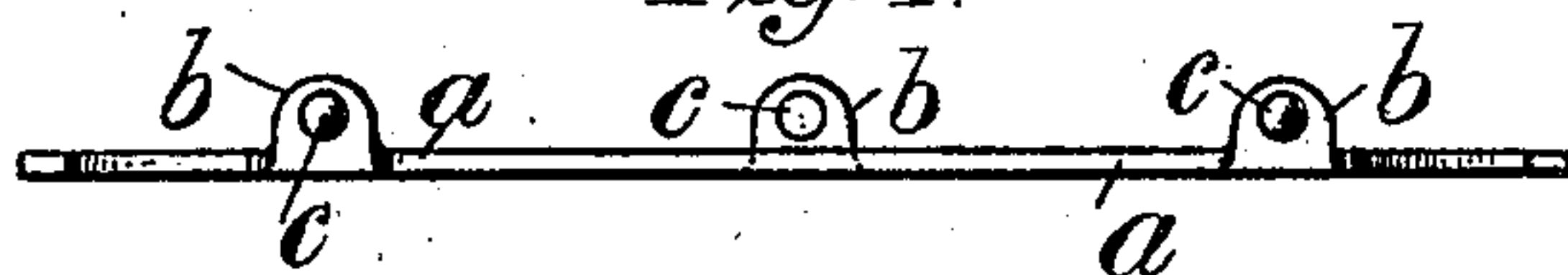
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses  
*John A. Percival*

Inventor  
*Albert W. Chesterman*  
*By Richard R. [Signature]*  
ATT'Y'S

# UNITED STATES PATENT OFFICE.

ALBERT WALSTEAD CHESTERMAN, OF SPARKHILL, ENGLAND.

## CYCLE PEDAL-PLATE.

No. 820,095.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed June 6, 1905. Serial No. 263,963.

*To all whom it may concern:*

Be it known that I, ALBERT WALSTEAD CHESTERMAN, tool-maker, a subject of His Majesty the King of Great Britain and Ireland, residing at 6 Durham road, Sparkhill, Birmingham, England, have invented new and useful Improvements in Cycle Pedal-Plates, of which the following is a specification.

10 This invention has reference to cycle pedal-plates which are commonly known as "rat-trap" and are usually made with a row of teeth on each edge. In course of time, however, these teeth wear off and then in order to  
15 obtain a firm grip of the foot on the pedal it is necessary to use toe-clips, which, as is well known, are troublesome and dangerous. The object of this invention is to provide a pedal-plate with the teeth so constructed that they  
20 will not wear off, but will last as long as the other parts of the pedal.

My invention is applicable to all kinds of pedal-plates irrespective of the particular shape of the pedal with which they are used.

25 I will describe my invention by referring to the accompanying drawings, on which—

Figure 1 is a general view of a rat-trap cycle-pedal with the pedal-plates constructed in accordance with this invention. Fig. 2 is  
30 a side elevation of one of the pedal-plates separately. Fig. 3 is a cross-section of the same on line X X of Fig. 2, and Fig. 4 is a plan of the same.

The same reference-letters indicate the  
35 same or corresponding parts in all the figures.

In carrying out this invention each of the cycle pedal-plates *a a* are cut out of sheet-steel or other suitable sheet metal with one,  
40 two, three, or more half-round lugs or projections *b*, which are turned at right angles to the face of the plate *a*, and in holes which are drilled or pierced in these lugs or projections *b* I insert hard-steel spikes *c*, which are pointed

and of conical form and stand outwardly, as shown on my drawings, so as to stick into the sole of the cyclist's boot or shoe. As these  
45 spikes are made of a pointed conical form, as shown, they stick into the sole of the cyclist's boot or shoe immediately it is placed on the pedal and render it impossible for the sole to  
50 slip on the pedal, thus effectually preventing the spikes from wearing away.

I find that two spikes at a short distance apart on one edge of the pedal-plate and one central spike on the opposite edge of the  
55 same, as shown on my drawings, answers well in practice, as the two spikes on one pedal-plate will then be under the wide part of the rider's boot or shoe and the one spike of the other pedal-plate will be under the toe  
60 part of his boot or shoe. It is to be understood, however, that more or less than three spikes on each pedal-plate may be used, if desired. I make no claim in respect of any  
65 part of the pedal except the pedal-plates constructed with the conical hard-steel spikes *c*, as above described. The spikes are secured in the holes in the lugs *b* by any convenient means, as by each spike being made with a  
70 smaller shank *d*, Fig. 3, which is driven into the hole in the lug *b*.

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

A cycle pedal-plate provided at its edges with lugs or projections turned at right angles to the plate and with hard-steel conical  
75 spikes fixed in holes in said lugs to engage in the sole of the cyclist's boot or shoe, substantially as set forth.

In testimony whereof I have signed my  
80 name to this specification in the presence of two subscribing witnesses.

ALBERT WALSTEAD CHESTERMAN.

Witnesses:

CHARLES BOSWORTH KELLEY,  
THOMAS JOHN ROWE.