

UNITED STATES PATENT OFFICE.

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CLEAT FOR SHOES.

No. 912,172.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEO J. F. ROONEY, a citizen of the United States, residing at the city, county, and State of New York, have invented certain new and useful Improvements in Cleats for Shoes, of which the following is a specification.

My invention consists in an improved cleat such as may be applied to shoes used in baseball or other athletic sports.

The object of my invention is to provide a cleat which will enable the wearer to obtain a firm grip on the ground, as, for instance, when running, but which will minimize possible injury to an opponent should such opponent be struck by such gripping means.

The accompanying drawings will serve to illustrate my invention in which—

Figure 1 is a bottom view of a shoe provided with my improved cleats. Fig. 2 is a side elevation. Fig. 3 is a section and partial elevation taken on the line III—III of Fig. 1. Fig. 4 is an elevation of cleat and section of shoe looking from the right to Fig. 3. Fig. 5 is a vertical section of a modified form of cleat and its support. Fig. 6 is a plan view of a spring washer such as is shown in Fig. 7. Fig. 7 is a vertical section of a modified form of support for the cleat. Fig. 8 is a view of the construction shown in Fig. 7 looking from below upwards. Fig. 9 is an elevation of a modified form of cleat and a section of its support. Fig. 10 is a view, looking from below upwards, of the form shown in Fig. 9.

Referring to the drawings: 1 indicates the sole of a baseball shoe. Mounted upon this sole at the ball and at the heel are triangular stamped plates, 2, 3. The particular shape of these plates is not essential, although I prefer to use that shown in the drawings. These plates are secured to the shoe by rivets, 4. In order to prevent the rivets, 4, from injuriously affecting the feet of the wearer of the shoe, I locate under the plates washers 5. These washers may be ordinary flat washers, as shown in Figs. 2, 3, 4 and 9, or a spring washer 6, may be employed, as shown in Figs. 6 and 7.

In Figs. 2, 3, 4, and 5, the three ends of the plates 2, 3 are turned downward at right angles to form supports 7 and in these supports are pivotally mounted wheel cleats, 8. These wheels may be made of solid metal, as shown in Figs. 1, 2, 3 and 4, or stamped out of sheet metal, as shown in Fig. 5.

The wheel cleats 8 may be secured to and

arranged to vertically rotate in the supports 7 by means of bearing pins 9, as shown in Figs. 1, 2, 3 and 4, which pins have their heads counter sunk in the face of the wheels 8, as shown at 10, Fig. 3.

Instead of using pins 9, the body of the wheel may be made of stamped metal, and turned inward to form a bearing, 11, between the cotter pin 12 on bearing 11, and the support 7, is inserted a washer 13 as shown in Fig. 5.

In the construction shown in Figs. 1 to 4, the wheel 8 rotates on the bearing pin 9 and in the construction shown in Fig. 5 the wheel and its bearing rotate in the support 7.

In the construction shown in Fig. 7 the support 7 is mounted upon a vertical pin 14 while the wheel 8 is mounted to rotate on an offset bearing 15 projecting outwardly from the support 7, a washer 16 being introduced between a cotter pin 17 at the outer end of the bearing 15 and the wheel. In this form it will be observed that the wheel is capable of a horizontal motion relative to the plates 2 and 3 and a vertical motion around the offset bearing 15. In this construction a spring washer may be employed.

In the construction shown in Fig. 9 the support 7 is done away with and in place thereof there is provided a vertical pin 18 secured to the plates 2 and 3 and on these plates is mounted a V shaped cleat 19. Between the cleat 19 and the plates 2 and 3 is a washer 20. In this last described construction the cleat 19 has a rotary horizontal motion around the pivot pin 18.

I do not limit myself in any wise to the precise features of construction described as it will be evident that the wheels 8 may be otherwise mounted and yet be within the intent of my invention.

It will be seen that by my improved constructions, the wearer of the shoe obtains a firm hold upon the earth as the wheel or cleat enters the earth, at the same time should the wheel or cleat strike any portion of the body of a person the wheel or cleat will turn thus preventing it entering the body and doing serious injury.

Having thus described my invention I claim:

1. A cleat for shoes comprising a triangular plate member provided with depending supports and a rotary member mounted in each of said supports.

2. A cleat for shoes comprising a base

plate and pendent gripping members, each of said members being automatically adjustable to present different gripping surfaces.

- 5 3. A cleat for shoes comprising a base plate and rotatable gripping pendants, the contact surfaces of said gripping pendants being movable in a circular path while in operative position.
- 10 4. A cleat for shoes comprising a base

plate and pendent gripping members, said gripping members being capable of a rotary movement in two planes while in operative position.

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

LEO J. F. ROONEY.

Witnesses:

P. A. JACKMAN,
H. E. GIFFORD, Jr.