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G. J. ERTL

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TRUCK SOCKET PLATE FOR ROLLER SKATES

Filed July 28, 1924

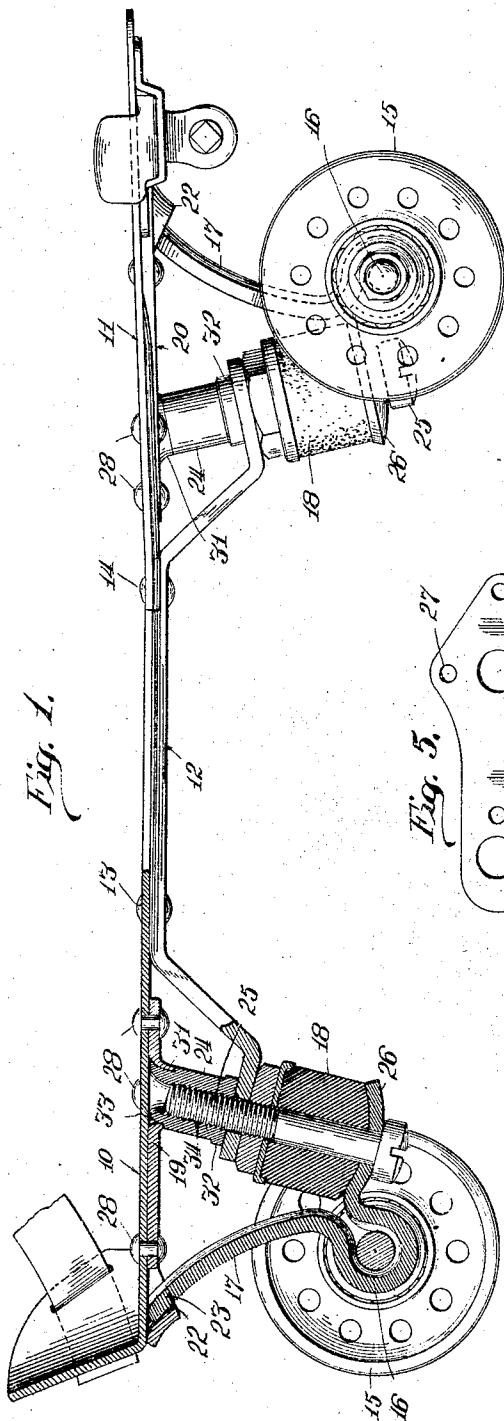


Fig. 1.

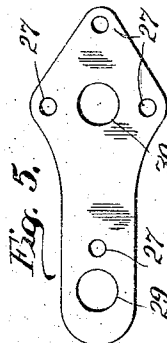


Fig. 5.

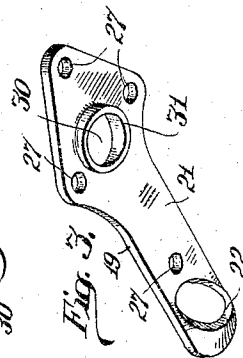


Fig. 3.

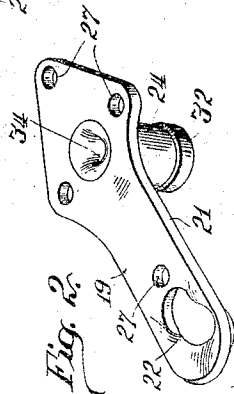


Fig. 2.

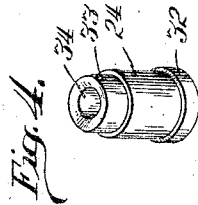


Fig. 4.

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UNITED STATES PATENT OFFICE.

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TRUCK-SOCKET PLATE FOR ROLLER SKATES.

Application filed July 28, 1924. Serial No. 728,679.

To all whom it may concern:

Be it known that I, GEORGE J. ERTL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Truck-socket Plates for Roller Skates, of which the following is a specification.

My invention relates to improvements in the construction of truck socket plates for roller skates, and has for its principal object the provision of an improved socket plate of the above character, which is so simplified in construction that it may be manufactured at a lower cost than the socket plates of this character now in general use, and which will possess the desired qualities of lightness and strength.

Prior to my invention, it has been customary, in the manufacture of roller skates of the better quality to make the truck socket plates in one piece by a series of metal drawing operations, so as to provide greater strength than can be obtained from a casting of equal weight and at the same time avoid the high cost of producing such parts by forging. While the drawn steel article of this character presents various advantages over castings and forgings, its preferred configuration is such as to involve a large number of difficult metal drawing operations which require the attention of highly skilled mechanics, and the use of expensive dies, all of which add to the manufacturing cost.

One of the specific objects of my invention is to provide an improved construction which will overcome the above-mentioned and other incidental objections to truck socket plates heretofore used and which will retain all of the advantages of strength and lightness present in the one-piece socket plate heretofore made of drawn metal.

The preferred embodiment of my invention is illustrated in the accompanying drawing, wherein like characters of reference designate corresponding parts, and wherein

Fig. 1 is a side view of a roller skate, partly in section, illustrating the device of my invention in its operative position on a roller skate.

Fig. 2 is a view in perspective of a truck

socket plate for roller skates constructed in accordance with my invention.

Fig. 3 is a view in perspective showing the bottom surface of the body portion of my invention.

Fig. 4 is a view in perspective of a separately formed socket member adapted to be secured to the body member shown in Fig. 3, and

Fig. 5 is a plan view of the blank from which the body member shown in Fig. 3 is formed.

In Fig. 1 of the drawing I have shown a roller skate construction in which my improved truck socket member of the type herein shown is particularly suitable for use. In the skate construction illustrated 10 designates a heel plate, 11 a toe plate, and 12 a reinforcing bridge secured to the heel and toe plate at 13 and 14 respectively, and having its ends bent downwardly for attachment to the front and rear trucks of the skate.

The rear and front trucks are of identical construction, consisting in each case, of a pair of rollers 15, revoluble on an axle 16, a bracket 17, and a resilient buffer element 18 supported on one end of the bracket.

Socket members 19 and 20 are secured to the heel and toe plates to provide for the attachment of the trucks thereto. These socket members comprise in each case a body portion 21 formed at one end with a socket portion 22 to receive the end 23 of the bracket 17 and provided at the other end with a depending, diagonally disposed socket portion 24, adapted to receive the threaded end of an attaching screw 25. The screw 25 preferably extends through the end 26 of the bracket 17, the buffer 18 and one end of the arch member 12 so that these members may be clamped firmly against the lower end of the socket member.

The socket portion 24 is preferably relatively long so as to provide a bearing for one end of the arch member 12.

As previously referred to, socket members of the above general configuration have heretofore been made of pressed steel, the member being formed in one piece by a series of metal drawing operations. In order to avoid the difficulty and expense incident to forming the relatively long socket por-

tions by metal drawing operations, I preferably form the body 21 and the socket portion 24 separately, and secure them rigidly and permanently together. The body portion is preferably formed from a sheet metal blank of the configuration shown in Fig. 5, pierced with holes 27 for the attaching rivets 28 and with openings 29 and 30. The blank is pressed between suitable dies, so as to press the margin of the opening 29 downwardly to provide the socket portion 22 and to press the margin of the opening 30 downwardly to form a relatively shallow flange 31, the lower edge of which is at right angles to the axis of the socket portion 24. The socket portion 24 of the member is made from a metal bar which may be turned down in a suitable lathe to provide a bead 32 at one end and to provide a reduced portion 33 at the other end. The socket member 24, after being drilled with the central opening 34, is secured to the body 21 by inserting the reduced portion 33 in the opening 30 of the body portion and flaring the reduced end outwardly as shown in Figs. 1 and 2. The internal threads may be cut in the socket portion either before or after it is secured to the body.

While I have described my invention in connection with one specific embodiment, it will be obvious that various forms of socket plates may be made without departure from the spirit of my invention. I therefore contemplate, by this invention, all modifications in structure as come within the scope of the appended claims.

I claim:

1. A roller skate truck socket comprising a flat body portion adapted to be secured to the foot-plate of the skate, and a separately formed socket portion secured to the body portion.

2. A roller skate truck socket comprising a body portion of sheet metal and a separately formed socket portion secured thereto.

3. A roller skate truck socket comprising a flat body formed with an integral socket portion, and a separately formed socket portion secured to the body at a position spaced from the integral socket.

4. A roller skate truck socket comprising a sheet metal body one portion of which is depressed to form a socket portion for receiving one end of a truck bracket, and a separately formed socket portion for receiving the other end of the bracket secured to a different portion of the sheet metal body.

5. A roller skate truck socket comprising a sheet metal body adapted to be secured to the foot plate of the skate and formed at one end with a downwardly pressed portion to provide a socket for receiving one end of a truck bracket and provided at the other end with a separately formed socket portion secured thereto.

6. A roller skate truck socket comprising a sheet metal body formed at one end with a downwardly pressed portion to provide a socket for receiving one end of a truck bracket and provided at the other end with a separately formed socket portion secured permanently to the under face thereof so as to extend downwardly at an angle thereto.

7. A roller skate truck socket comprising a pressed metal body formed at one end with a socket to receive one end of a truck bracket and at the other end with a depressed portion, and a separately formed socket portion secured to said depressed portion.

8. A roller skate truck socket comprising a pressed metal body formed at one end with a socket to receive one end of a truck bracket and at the other end with a depressed portion, the lower edge of which is at an angle to the bottom face of the body, and a separately formed socket portion secured to said depressed portion.

9. A roller skate truck socket comprising a sheet metal body pierced with openings, the margin of one opening being pressed downwardly to provide a socket to receive one end of a truck bracket, and the margin of the other opening being pressed down to provide a downwardly extending flange, and a separately formed socket member secured to said downwardly extending flange; the separate socket member being formed with a reduced end portion adapted to be flared outwardly against the inner wall of said downwardly extending flange to secure said separate member thereto.

10. A roller skate truck socket comprising a sheet metal body pierced with openings, the margin of one of which is pressed downwardly at an oblique angle to the body to provide a socket to receive one end of a truck bracket, the margin of the other being pressed downwardly to provide a downwardly extending flange, and a separately formed socket provided with internal threads to receive a threaded attaching screw member, said separate socket member being formed with a reduced end portion adapted to be flared outwardly against the inner wall of said downwardly extending flange to secure said separate member to the body portion.

11. A roller skate truck socket comprising a sheet metal body portion formed with an opening the edges of which are depressed, and a separately formed socket portion having one end secured in this opening.

12. A roller skate truck socket comprising a sheet metal body portion formed with an opening the edges of which are depressed, and a separately formed socket portion having a reduced end secured in this opening.

13. A roller skate truck socket comprising a sheet metal body portion formed with an

- opening the edges of which are depressed, and a separately formed socket portion having a hollow reduced end portion inserted in this opening, and held in place by the engagement of the depressed edges of the body portion with the reduced portion, and by expanding the reduced end of the socket portion into the flared end of the opening left by the depressed edges.
- 10 14. A roller skate truck socket comprising a sheet metal body portion formed with an opening the edges of which are depressed more at one side of the opening than the other to form a tubular passage inclined to the plane of the sheet metal body, and a separately formed socket portion having one end secured in this opening.
- 15 15. A roller skate truck socket comprising a sheet metal body portion formed with an opening the edges of which are depressed more at one side of the opening than the other to form a tubular passage inclined to the plane of the sheet metal body and a separately formed socket portion having one end secured in this opening by expanding the inserted end portion into the opening above the depressed edges.
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GEORGE J. ERTL.