

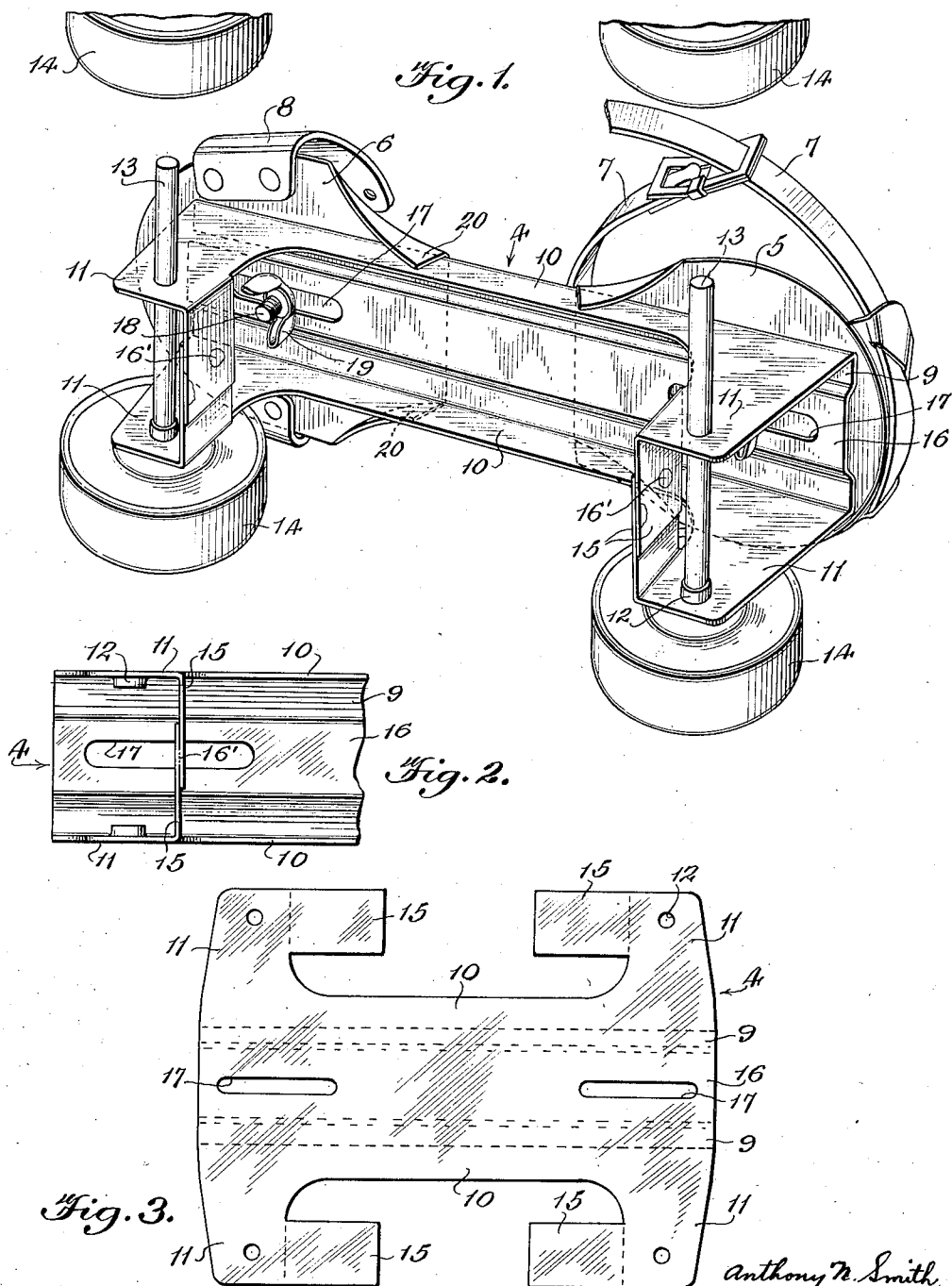
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ROLLER SKATE

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ROLLER SKATE

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5 Claims. (Cl. 208—173)

My invention relates to a skate and method of making same.

An object of my invention is to provide a rigid roller skate frame carrying the skate wheels and adjustable heel and toe plates.

An important object is to provide a skate frame formed from a single blank of material, parts of said blank which would otherwise be waste material forming cross braces for the wheel bearing supports.

A further object is to provide a skate frame of channel section with an embossed top.

A still further object is to provide cross braces for the axle carrying members consisting of inwardly extending pieces spot-welded together.

Another object is to provide a skate having adjustable heel and toe plates with novel guide means for same.

Further objects and advantages will appear as the description proceeds.

In the drawing:

Figure 1 is a perspective view of a skate embodying my invention;

Figure 2 is a fragmentary plan view of the under side of the frame with the axle and an adjustable plate removed; and

Figure 3 is a plan view of the blank from which the skate frame is formed.

Referring to the drawing, in which like numbers have been used to indicate like parts throughout same, the numeral 4 designates the blank forming the skate frame, and 5 and 6 adjustable heel and toe plates carried by the same. Straps 7 and 8 attached to the heel and toe plates, respectively, secure the skate to the wearer's foot.

The blank illustrated in Fig. 3 is pressed to form a frame having a foot carrying portion of channel cross-section including a top 9 and downwardly extending sides 10. The channel sides 10 at the ends thereof are extended downwardly to form axle supporting members 11 carrying axle bearings 12. Axles 13 having wheels 14 fixed to their ends are carried by the bearings 12.

When the blank for the skate frame is punched out, wings or projections 15 which ordinarily would be cut out as waste material are permitted to remain. When the blank shown in Fig. 3 is formed into the skate frame shown in Fig. 1, the wings 15 are bent inwardly and spot welded or otherwise connected, as at 16', forming a strong and economical cross brace for each pair of downwardly extending axle supporting members 11.

The top or foot supporting surface 9 of the frame 4 has a sunk or embossed portion 16 extending longitudinally of same, the said portion 16 having longitudinal slots 17 adjacent the ends thereof.

Referring back to the heel plate 5 and toe plate 6, these plates have downwardly extending screw threaded lugs 18 carrying wing nuts 19, which in conjunction with slots 17 permit longitudinal adjustment of the said plates. To prevent the plates 5 and 6 from turning and for guiding them when their adjustment is changed, the side edges of the said plates adjacent their inner ends are bent downwards at right angles, forming flanges 20. These flanges 20 grip the channel sides 10 of the frame, and thus keep the plates 5 and 6 properly aligned and cooperate with the lugs 18 and wing nuts 19 to hold said plates firmly on the upper surface of the skate frame. Lug or bolt 18 has a head and is inserted through a hole (not shown) in heel plate 5,—there being a similar member 18 inserted through toe plate 6.

The arrangement of the blank 4 which makes use of metal formerly scrapped together with the structure of the other parts and their means of attachment to the frame form a skate of economical and simple manufacture and of sturdy structure.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred embodiment of same, and that changes in shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having described my invention what I wish to claim by Letters Patent is:

1. In a skate having a frame formed of a single blank of material, axle carrying members formed adjacent each end of the frame in spaced relation transversely thereof, wings extending from the inner edge of each axle carrying member, the said wings being extending inwardly and being joined to form cross braces for the axle carrying members, and foot plates carried by the frame.

2. In a skate having a frame formed of a single blank of material, the said frame being of channel cross section, the channel sides extending downwards at their ends to form axle carrying members, the inner edges of each axle carrying member being extended to form a wing, the wings being bent inwards and connected to form cross braces for both front and rear axle carrying members, and foot plates having longitudinal

adjustment fixed to the upper surface of the frame, the sides of the plates adjacent their inner edges extending inwardly to grip the sides of the channel frame and guide the plates when same are being adjusted.

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3. In a skate having a frame formed of a single blank of material, the said frame being of channel cross section, the channel sides extending downwards at their ends to form axle carrying members, the inner vertical edges of each axle carrying member being extended to form a wing, the wings being bent inwards in meeting engagement and connected to form cross braces for both front and rear axle carrying members, and foot plates having longitudinal adjustment fixed to the upper surface of the frame.

4. In a skate having a rigid frame of channel

section, the frame having longitudinal slots adjacent each end of same and a foot plate on each end of the frame, each of said plates having a screw threaded stud for extending through the longitudinal slots, an adjusting nut on each of said studs, the sides of each plate adjacent its inner edge being formed into downwardly extending flanges for gripping the sides of the channel frame.

5. In a skate, a frame formed of a single blank of material, axle carrying members depending from opposite sides thereof in spaced relation transversely of the frame, inwardly extending wings on the axle carrying members, and said wings being connected in overlapped relationship to provide transverse braces.

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