Sept. 16, 1930. H. DUPUIS 1,775,895

ROLLER SKATE AND ATTACHMENT

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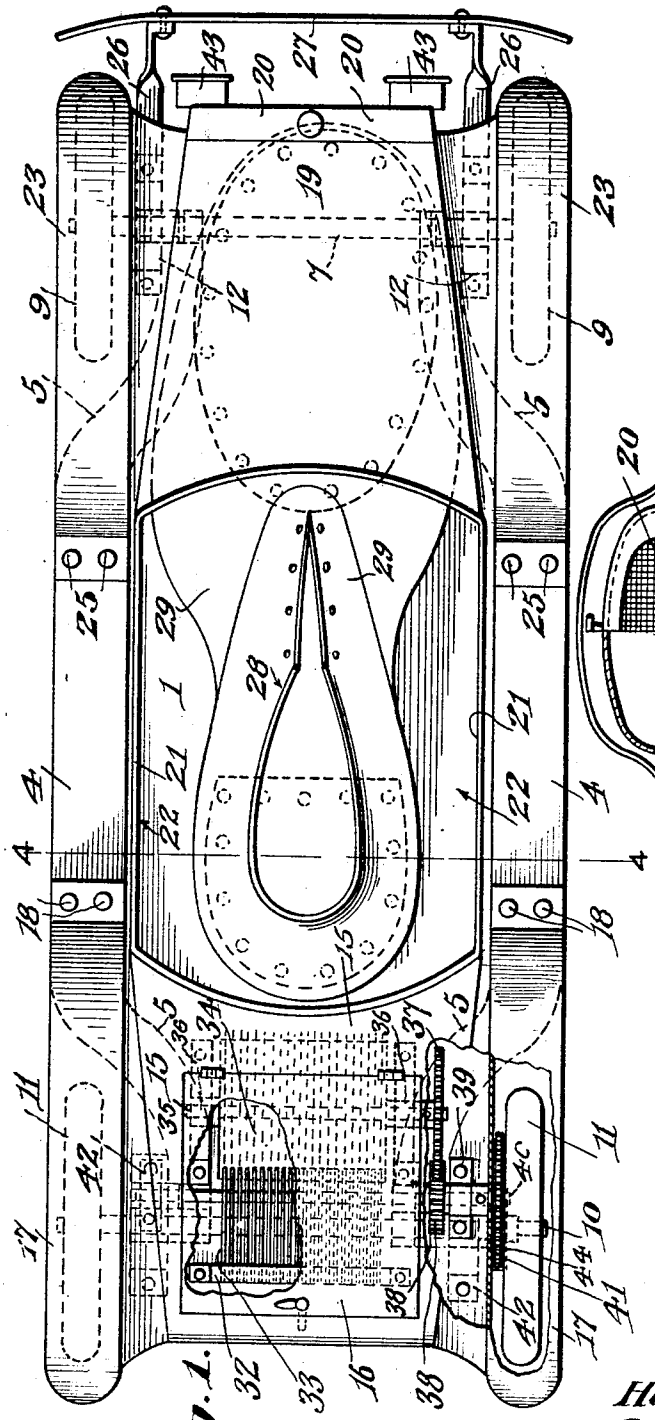


Fig. 1.

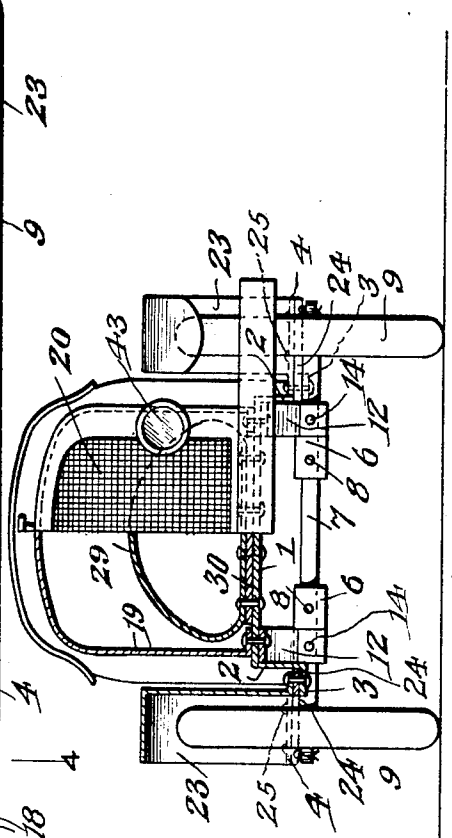


Fig. 3.

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Fig. 4.

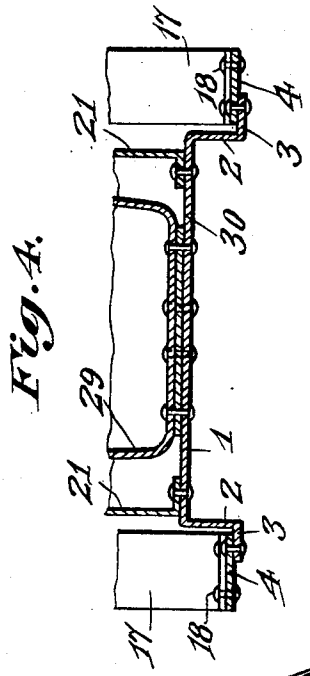
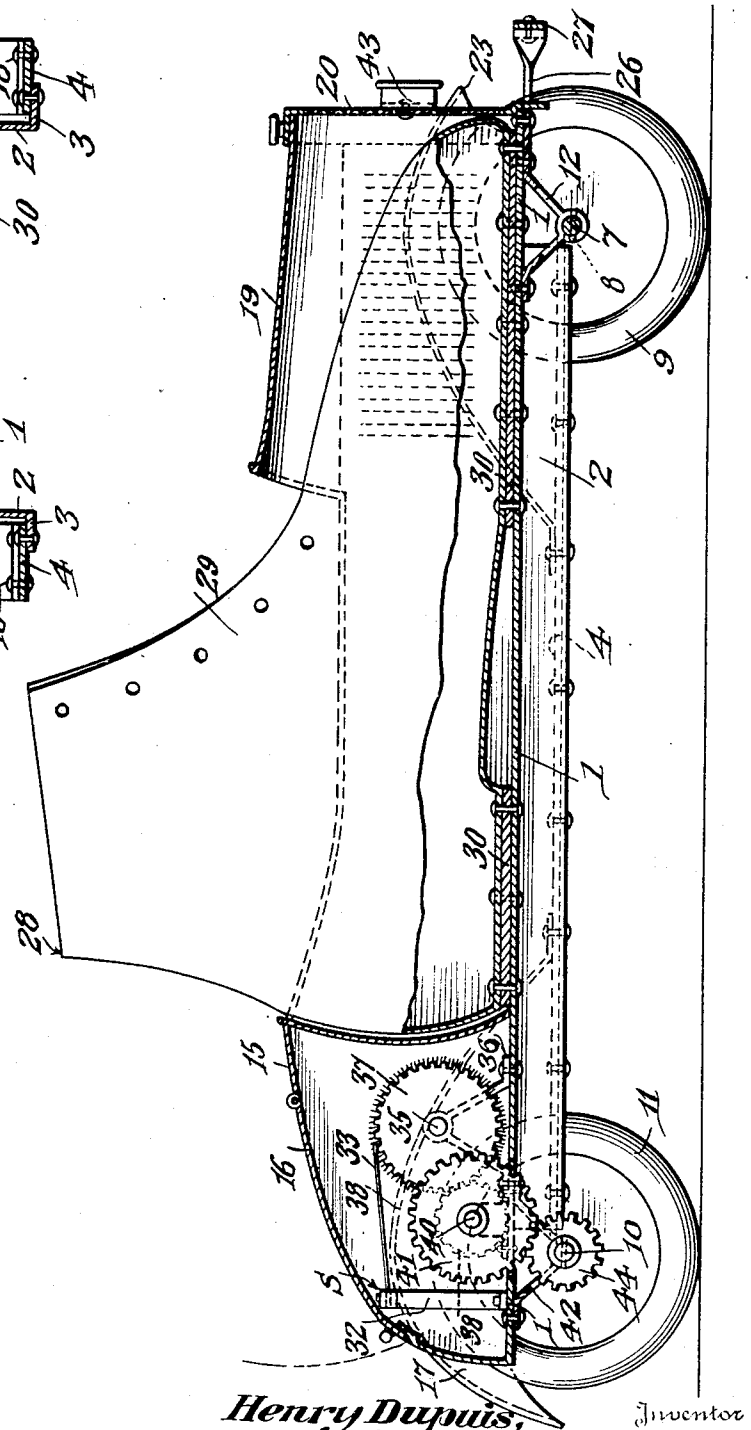


Fig. 2.



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UNITED STATES PATENT OFFICE

HENRY DUPUIS, OF MANCHESTER, NEW HAMPSHIRE

ROLLER SKATE AND ATTACHMENT

Application filed March 7, 1929. Serial No. 345,078.

This invention aims to provide a roller skate having a sounder which may be a musical instrument, novel means being provided to operate the sounder from one of the wheels of the skate. This invention aims, moreover, to improve the form of the body of the skate. A further object of the invention is to provide a roller skate which will be attractive in appearance.

In the drawings:—

Figure 1 is a plan wherein parts are broken away;

Figure 2 is a longitudinal section, parts being in elevation;

Figure 3 is a front elevation, wherein parts are in section.

Figure 4 is a section on the line 4—4 of Figure 1.

The skate shown in the drawings includes a base plate 1 having vertical depending flanges 2 provided with outstanding horizontal wings 3 to which the frame pieces 4 are secured. Referring to Figure 1, it will be seen that the frame pieces 4 taper at their front and rear ends, the front and rear ends of the frame pieces being extended inwardly toward the longitudinal center of the skate, as shown at 5.

On the ends of the frame pieces 4 there are sockets 6, shown in Figure 3. These sockets carry the front axle 7. The rear axle 10 turns in its sockets but the front axle 7 is secured at 8 in the sockets that carry it. Front wheels 9 are mounted on the front axle 7, and one or both of the rear wheels are secured to the rear axle, so that rotation may be imparted to the rear axle by one or both of the rear wheels.

V-shaped brackets 12 and 42 are secured to the base plate 1 (Figure 2) and are located outwardly of the sockets 6 (Figure 3). The brackets 12 aid in carrying the front axle 7, the front axle 7 being secured in the brackets 12, as shown at 14 in Figure 3. The rear axle 10 turns in the rear brackets 42. The forward brackets 12 have extensions 26 carrying a bumper 27 disposed in front of the wheels 9.

On the rear end of the base plate 1 is located a tonneau, forming part of the body of the vehicle, the tonneau being designated by the numeral 15, and having a hinged lid 16. Rear fenders 17 are disposed on opposite sides of the tonneau 15 and are connected to the tonneau and to the wings 3, the forward ends of the rear fenders 17 being connected at 18 to the frame pieces 4.

A hood 19 is mounted on the forward portion of the base plate 1 and carries a fake radiator 20. The hood 19 has side walls 21 that extend backwardly to the tonneau 15 and form a compartment 22 in the body of the roller skate.

The front fenders 23 are located on opposite sides of the hood 19 and are connected to the wings 3, as shown in Figure 3, fillers 24 being interposed between the lower portions of the front fenders 23 and the wings 3. Figure 3 shows this detail as part of the forward fenders 23, but the view is useful, also, in connection with the rear fenders 17. The rear ends of the front fenders 23 are secured at 25 to the members 4.

One object of the invention is to give the roller skate the appearance of an automobile, and it is with this end in view that the fenders 17 and 23 are provided, portions of the parts 4 appearing as the foot boards (Figure 1), the fake radiator 20 and dummy lamps 43 being included in the equipment.

A foot holder 28, preferably in the form of a shoe, is located in the compartment 22. The foot holder 22 includes an upper 29 and a sole 30. The sole 30 preferably is made of metal and is secured to the base plate 1, the part 29 being formed of any preferred material. The toe of the foot holder 28 extends into the hood 19.

It may be noted that the fenders 17 and 23, and the exposed portions of the frame pieces 4, in Figure 1, are not of utility alone in making the skate appear like an automobile: they have a function beyond this, in that they serve as side guards, protecting the foot of the skater when the foot is secured in the holder 28.

A sounder is located in the tonneau 15, or elsewhere, and may be of any desired construction. In the present embodiment of the invention, the sounder, designated by the

letter S, is in the form of a music box, although some person may wish to substitute another sounder for the music box, and this can be done within the spirit of the invention. If the sounder is to be in the form of a music box, it may be well to mount a frame 32 in the tonneau 15, the frame being secured to the base plate 1. The frame 32 carries the forwardly presented comb 33 of the music box, the comb cooperating with the teeth of a plectrum cylinder 34 carried by a shaft 35 journaled in bearings 36 on the base plate 1.

On one end of the shaft 25 there is a gear 37 meshing with a pinion 38 on a shaft 40 supported for rotation in a bearing 39 on the base plate 1. A gear 41 is secured to the shaft 40 and meshes with a pinion 44 on the rear axle 10. Rotation is imparted to the rear axle 10 by one or both of the wheels 11, the axle 10 drives the pinion 44, and rotation is imparted to the shaft 35 by a train including the gear 41, the pinion 38, and the gear 37, the cylinder 34 turning with the shaft 35 and cooperating with the comb 23 in a way well understood by those who are familiar with music box construction.

As the skater moves along, the sounder S, whatever be its construction, will operate as its name indicates. The device claimed is a roller skate of attractive and novel appearance, and one which, moreover, will protect the foot of the skater and withstand hard use.

I claim:—

1. A roller skate comprising a base, means for attaching the base to a skater's foot, brackets connected to the base, supporting wheels, means for mounting the supporting wheels on the brackets, and a bumper disposed in front of the wheels, the brackets having extensions which carry the bumper.

2. A roller skate comprising a base, wheels carried by the base, a body on the base and provided at its forward end with a hood, there being a compartment in the body, to the rear of the hood, and a foot holder located in the compartment and connected to the base, the foot holder being prolonged into the hood.

3. A roller skate comprising a base, front and rear supporting wheels, means for mounting the wheels on the base, front and rear fenders above the front and rear wheels, a member extended between the rear ends of the front fenders and the forward ends of the rear fenders, and means for holding the foot of a skater on the base, said member and the fenders constituting guards for the skater's foot.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

HENRY DUPUIS.