

April 14, 1931.

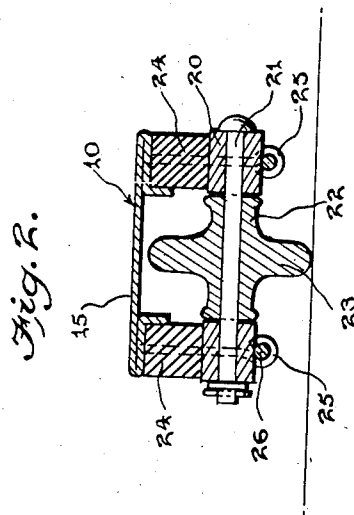
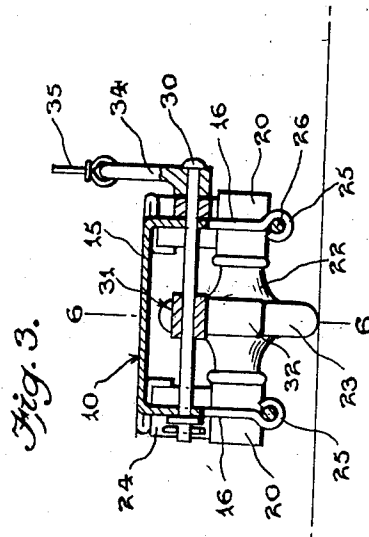
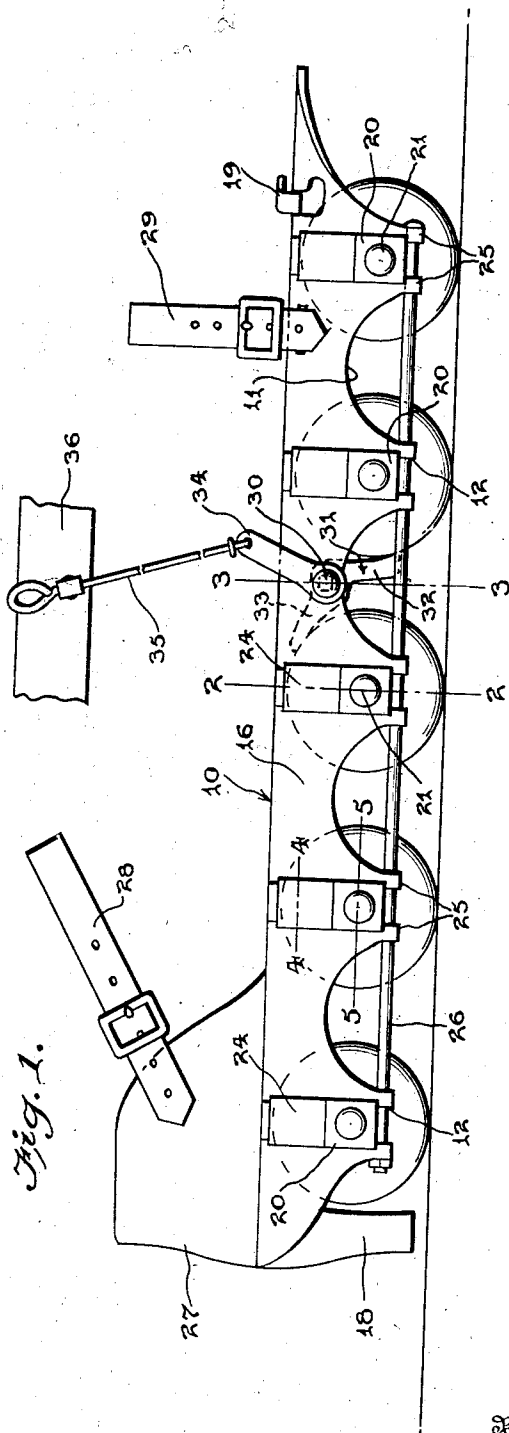
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1,801,205

SKATE

Filed May 22, 1930

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

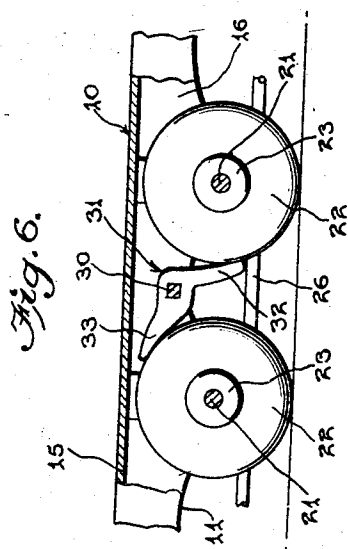
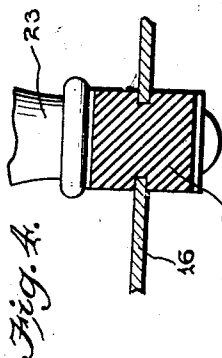
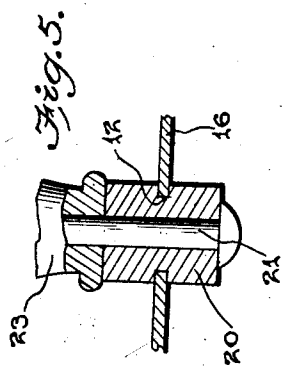
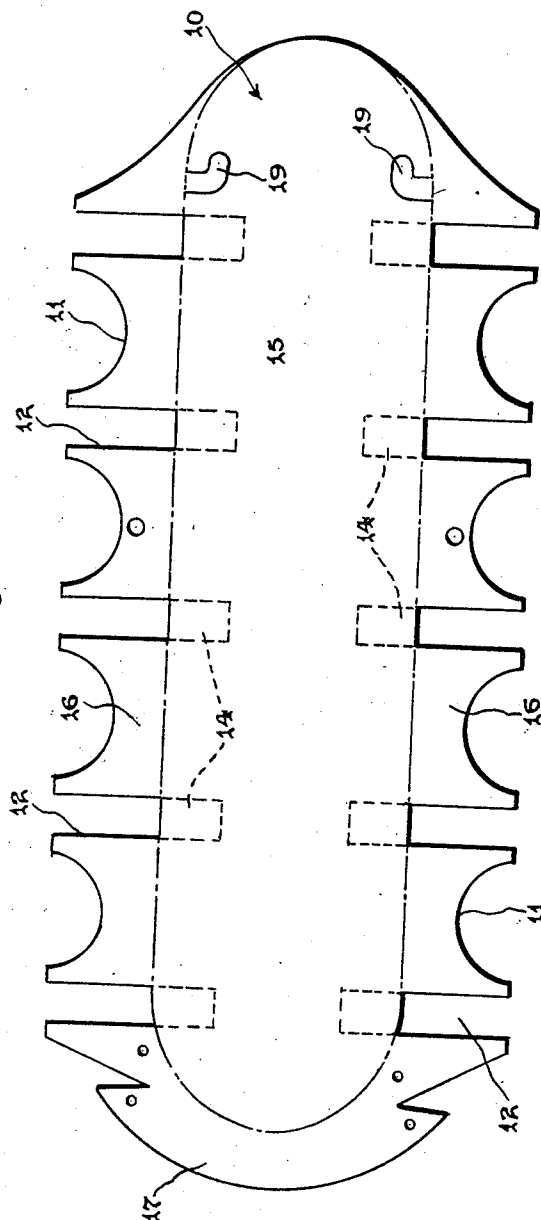


Fig. 7.



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UNITED STATES PATENT OFFICE

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SKATE

Application filed May 22, 1930. Serial No. 454,612.

The object of the invention is to provide a skate of the multiple wheel form in which the wheels are aligned and each effectively cushioned so that the user may be saved from jars or shocks in passing over slight irregularities of surface; to provide a skate equipped with means that will permit the user bringing himself to a quick stop; to provide a device of this character equipped with a brake for ready manual operation by the user to slacken his speed; and to provide a skate of the kind indicated which is of simple form and susceptible of cheap manufacture and low marketing cost.

With this object in view the invention consists in a construction and combination of parts of which a preferred embodiment is illustrated in the accompanying drawings, wherein:

Figure 1 is a side elevational view of a socket constructed in accordance with the invention.

Figures 2 and 3 are transverse sectional views on the planes indicated by the lines 2—2 and 3—3 respectively of Figure 1.

Figures 4 and 5 are detail sectional views on the planes indicated by the lines 4—4 and 5—5 respectively of Figure 1.

Figure 6 is a sectional view on the plane indicated by the line 6—6 of Figure 3.

Figure 7 is a plan view of the plate, before bending, of which the body portion is constructed.

The body or base 10 is constructed from flat metal plate of which the side edges are recessed as indicated at 11 and slotted as indicated at 12, the slots being formed by striking tongues 14 from the plate which are bent back into overlapping relation with the under face of the foot bearing portions 15. The side sections 16 resulting from the formation of the slots 12 are bent down into pendent position with reference to the foot bearing portion 15 and the rear arcuate portion 17 is rolled or bent to form a pendent heel element 18.

At the forward end of the foot bearing portion 15, ears 19 are upstruck to form sole grips for the forward end of the foot of the user.

The side portions 16 of the plate are arranged on each side in a common plane and the slots 12 serve as guides for the bearings 20 which are slotted on opposite sides to engage the adjacent edges of the portions 16. Since the slots 12 are arranged on opposite sides of the foot bearing portion 15 in common planes, the bearings 20 are thus arranged in pairs for the proper support of the axles 21 on which are carried the wheels 22 which, in the illustrated embodiment, are shown as solid wheels but which obviously may be rubber-bound if desired. The wheels 22 are formed with hub portions 23 on opposite sides which abut the opposite bearings of each shaft.

In the slots 12 above the bearings mounted therein and compressed between the intumed tongues 14 and the bearings are cushions 24 which are made preferably of rubber, slotted on opposite sides to engage the edges of the portions 16. By reason of the cushions, the body portion of the skate is thus yieldingly mounted on the wheels and in order that the bearings of the wheel shafts may be retained in position in the slots 12, the terminals of the portions 16 at the extremities of the recesses 11 are rolled to form eyes 25 in which are received the longitudinal retaining bolts 26, there being one spanning all of the portions 16 on each side of the body portion. Obviously these retaining bolts will retain the bearings in the guide slots when the body portion is raised from the supporting surface.

At the rear end of the body portion there is provided a guard member 27 which constitutes a seat for the heel of the user, this guard member being provided with an ankle strap 28. At the forward end of the body portion there is mounted a toe strap 29 for extension across the forward end of the foot to insure the retention of the body portion 10 in contact therein.

At an intermediate point in the length of the body portion and spanning two opposite portions 16 is a brake shaft 30 on which is mounted a brake member 31 having a hub-engaging portion 32 and a tail portion 33. If the shaft 30 be rocked in one direction, the hub-engaging portion 32 will be

raised into contact with the hub portion of one of the rollers 22 and impose a frictional resistance against its rotation which will result in retarding the movement of the device as a whole. The hub-engaging or shoe portion 32 of the brake member is of greater weight than the tail portion and if no turning movement be imparted to the shaft 30, the shoe portion will drop out of contact with the hub and the upper end of the tail portion brought into contact with the under face of the foot bearing portion 15, when the wheel normally engaged by the brake will be free to rotate.

The means for actuating the brake consists of an exterior arm 34 carried on the brake shaft 30 and terminally connected by a cord 35 with the belt 36 which the skate user will carry around his waist. Desiring to actuate the brake, a pull on the cord will be reflected, by reason of the arm 34, in the rocking or rotation of the shaft 30 with the setting of the brake against the wheel hub as before described.

The heel member 18 provided at the rear end of the body portion is for the service of the user in bringing himself to a stop, the forward end of the skate being raised with the rear wheel as a pivot until the lower end of the wheel member 18 engages the ground or supporting surface.

The invention having been described what is claimed as new and useful is:

1. A skate comprising a body member with pendent side portions arranged to provide intervening slots, bearings slidably mounted in said slots, and axles mounted in said bearings, wheels carried on said axles, and resilient members bearing respectively on the under face of said body member and upper faces of said bearings.

2. A skate comprising a body member with pendent side portions arranged to provide intervening slots, bearings slidably mounted in said slots, and axles mounted in said bearings, wheels carried on said axles, and resilient members bearing respectively on the under face of said body member and upper faces of said bearings, the bearings being formed with side slots engaging the edges of said pendent portions and the resilient members consisting of rubber cushions similarly slotted and engaging the side edges of said pendent portions.

3. A skate comprising a body member with pendent side portions spaced to define intervening slots, bearings slidably mounted in said slots, resilient members bearing on the under face of said body member and the upper face of said bearing, transverse shafts journaled in the bearings, rollers carried on the shafts, and retainers spanning the pendent portions on opposite sides of the body member and engaging the under face of said bearing.

4. A skate comprising a body member with pendent side portions spaced to define intervening slots, bearings slidably mounted in said slots, resilient members bearing on the under face of said body member and the upper face of said bearing, transverse shafts journaled in the bearings, rollers carried on the shafts, and retainers spanning the pendent portions on opposite sides of the body member and engaging the under face of said bearing, said pendent portions being formed with aligned eyes through which the retainers extend.

5. A skate comprising a body member, wheels supporting the same, a brake rockingly mounted on the body member and having a shoe engageable with one of the wheels, and a pull cord operatively connected with the brake, the brake having a shaft transversely spanning the body member and mounted for rocking movement, an arm exteriorly connected with said shaft and terminally connected with said pull cord, the brake being mounted on said shaft and having a tail opposite said shoe and engageable with the under face of the body member when the shoe is retracted from its attendant wheel.

In testimony whereof he affixes his signature.

EDWARD M. MIRICK.

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