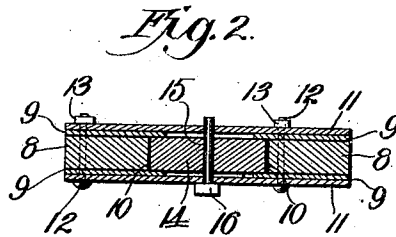
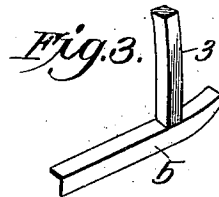
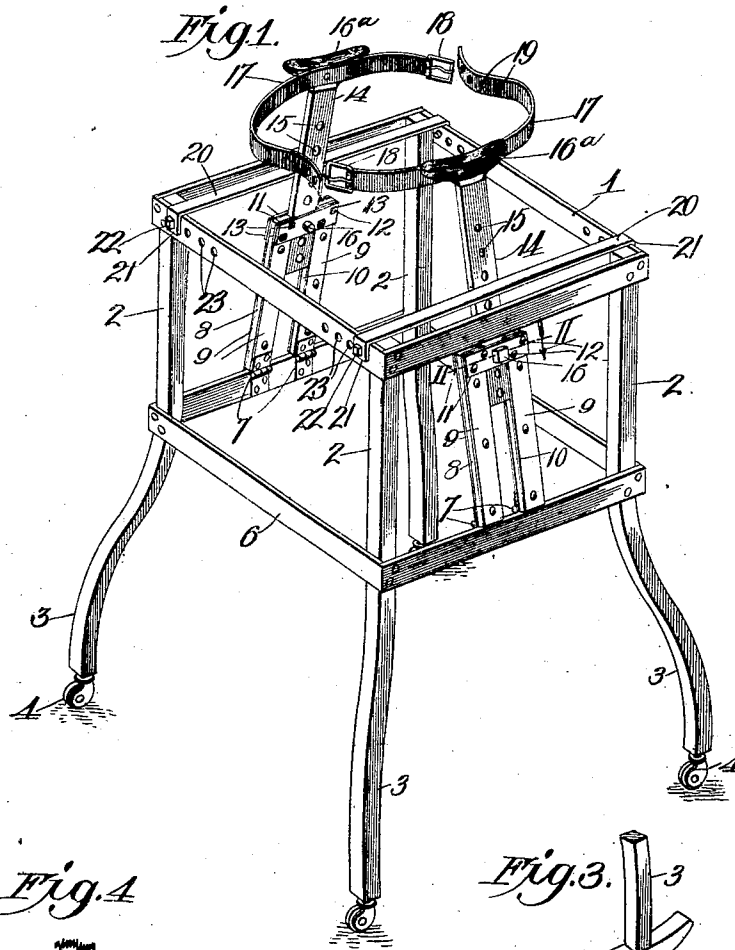


W. S. MILLER.
SKATER'S SUPPORT.
APPLICATION FILED AUG. 1, 1908.

923,556.

Patented June 1, 1909.



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UNITED STATES PATENT OFFICE.

WILLIAM S. MILLER, OF KANSAS CITY, MISSOURI.

SKATER'S SUPPORT.

No. 923,556.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed August 1, 1908. Serial No. 446,487.

To all whom it may concern:

Be it known that I, WILLIAM S. MILLER, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Skaters' Supports, of which the following is a specification.

This invention relates to skaters' supports, and is designed especially for the use of beginners to enable them to learn to skate without the possibility of falling and perhaps receiving a serious injury, and my object is to produce a device of this character which while designed primarily for the use of persons learning to skate on rollers, may be employed by persons learning to skate on ice.

A further object is to produce a device of the character named which is adjustable to accommodate persons of varying height or thin or stout persons.

A still further object is to produce a simple, strong, durable and cheap device, and one which is light in weight so as to be conveniently portable.

With these general objects in view and others as hereinafter appear, the invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed, and in order that it may be fully understood reference is to be had to the accompanying drawing, in which—

Figure 1, is a perspective view of a skater's support embodying my invention. Fig. 2, is an enlarged section taken on the line II—II of Fig. 1. Fig. 3, is a detail perspective view of a part of one of the legs equipped with a swiveled runner for use in ice-skating. Fig. 4, is a view looking toward the rear end of the runner to show its swivel connection with the leg.

In the said drawing, 1 indicates a horizontally-arranged frame of rectangular or other suitable form and provided with a series of supporting legs 2 which, by preference, curve outwardly at their lower ends as at 3, and are equipped with casters 4, for use upon floors primarily.

If the device is to be used in connection with ice-skating, the legs will preferably be equipped with runners 5, as indicated in Fig. 3, which runners will preferably be in the form of steel, L-bars 5, with their front ends upturned so as to ride over ordinary

obstructions, said runners being swiveled near their front ends so as to adapt themselves automatically to the direction in which the device is moved by the skater.

6 indicates a second horizontal frame secured to legs 2, below frame 1, to act as a brace for the legs and make the frame as a whole stiff and rigid, and hinged as at 7 to the side bars of the frame 6 is a pair of hinged frames constructed as follows:—8 indicates bars which extend upward and terminate near the side bars of the frame 1, and 9 indicates plates secured to the outer and inner faces of bars 8 and projecting inwardly thereof so as to produce guide grooves 10.

11 indicates a pair of cross bars connecting the upper ends of each of the bars 8 and its plates 9 with the adjacent bar 8 and its plates 9, the connections being made preferably by means of bolts 12 and nuts 13.

14 are adjustable bars or members fitting slidably in grooves 10 and provided with longitudinal series of holes 15, through one or another of which holes pins 16, preferably carried by cross bars 11, are adapted to be fitted so as to hold the slide or extension members 14 of the hinged bars or members, at the desired point of adjustment to accommodate persons of varying heights, and said bars 14 terminate preferably in upholstered arm rests 16^a to fit under the arms of the skater as a support.

17 indicates a pair of straps secured by preference to the arm rests and provided with buckles 18 and perforations 19 so that the end of each strap can be buckled to the adjacent end of the other, this arrangement adapting the band which said straps constitute, to persons of varying girth, the bands being utilized to prevent the occupant of the device who will stand within frames 1 and 6, from slipping off the arm rests and falling against either of said frames, and will also prevent such person slipping down within the frame in case the skater's feet become uncontrollable and fail to afford the necessary support, as frequently happens with beginners.

The hinged extensible frames constituted by parts 7 to 16 inclusive, are capable of swinging toward or from each other while being adjusted and in order to brace them against outward movement after the adjustment has been made and hence to prevent the band imposing any undue pressure

against the breast and back of the skater, I provide a pair of bars 20 arranged to bridge the frame 1 parallel with the sides thereof, said bars preferably terminating in down-
5 turned perforated ears 21 adapted to be secured by pins 22 at varying distances apart on the front and rear sides of frame 1, the said sides being provided with longitudinal series of holes 23 to accommodate the ad-
10 justment of said pins or equivalent fastening devices.

With a device of this character beginners can learn to skate quickly and easily because they can strike out with the assurance
15 that they cannot fall, it being understood of course that the casters 4 or runners 5 will adapt themselves automatically to the direction in which the skater starts to move.

From the above description it will be apparent that I have produced a skater's support possessing the features of advantage
20 enumerated as desirable in the statement of the object of the invention, and I wish it to be understood that I reserve the right to make such changes as properly fall within the spirit and scope of the appended claim.

Having thus described the invention what I claim as new and desire to secure by Letters-Patent, is:—

30 A support, comprising a horizontally-arranged frame 1 provided with a series of supporting legs 2 which extend outwardly and downwardly at their lower ends at 3,

floor or ice engaging devices underlying and swiveled to said legs, a second horizontally-
35 arranged frame 6 secured to the legs below the first-named frame, a pair of upright frames hinged at their lower ends to opposite sides of the said second frame and extending upwardly and inwardly from said
40 sides, each of said hinged frames consisting of a pair of members provided with grooves 10 at their inner sides and cross-bars connecting the upper ends of said members at the inner and outer sides of the same, a bar
45 14 fitting slidably in the grooves of each of said hinged frames and between the cross-bars thereof and extending upwardly and inwardly therefrom to a plane above the
50 first-named horizontally-arranged frame and provided with a longitudinal series of holes, pins carried by the cross-bars of said hinged frames for engagement with holes of said slidable bars, arm-rests secured on the upper ends of said slidable bars, straps
55 secured to said arm-rests and adapted to be fastened together, and adjustable bridge-bars 20 extending across the first-named frame at the outer sides of said slidable bars to limit the outward movement thereof.
60

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

WILLIAM S. MILLER.

Witnesses:

H. C. RODGERS,
G. Y. THORPE.