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SKATE BLADE HOLDER

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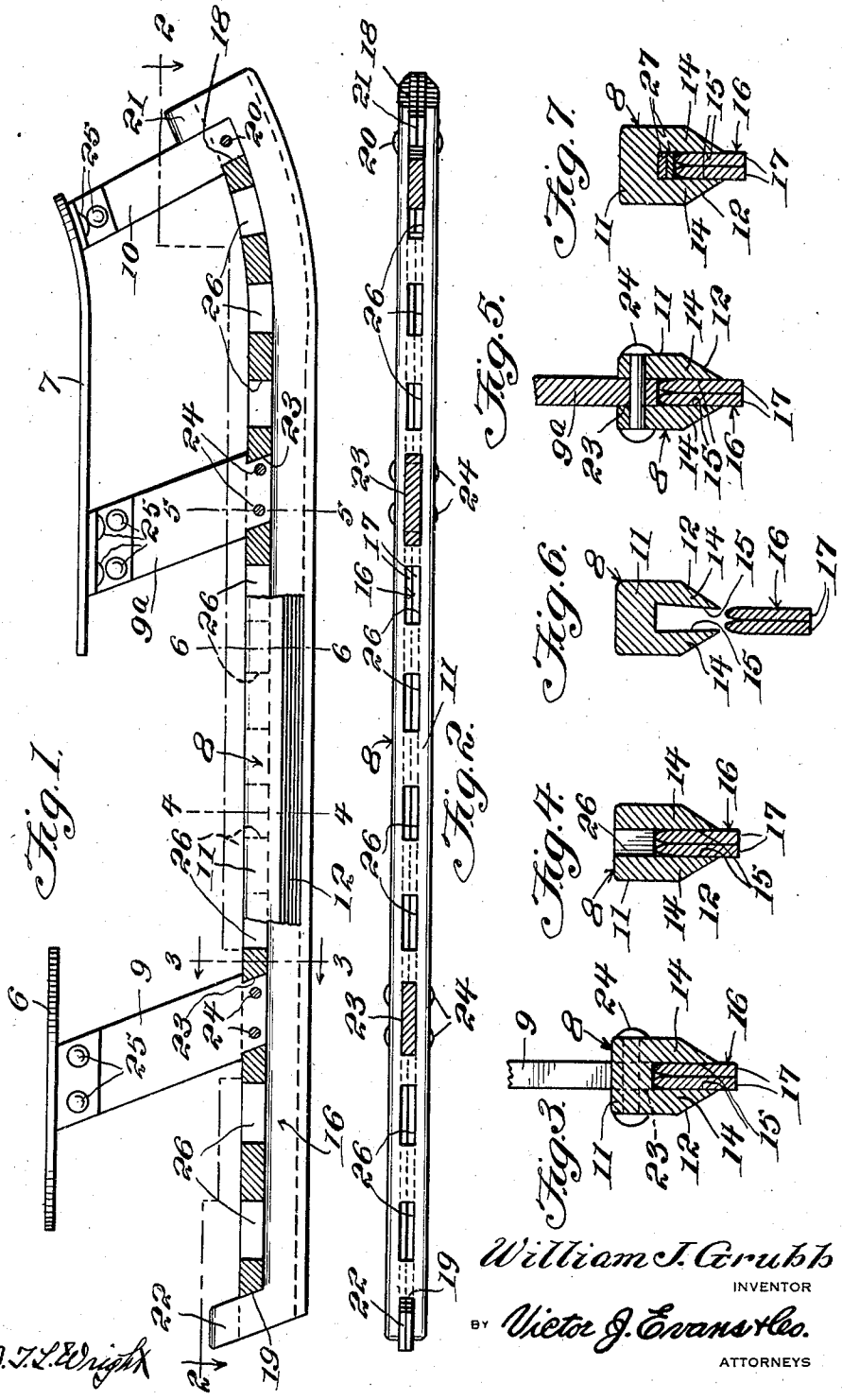


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

WITNESS G. T. L. Wright

William J. Grubb
INVENTOR

BY Victor J. Evans & Co.
ATTORNEYS

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SKATE BLADE HOLDER

William J. Grubb, Martinsburg, W. Va.

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6 Claims. (Cl. 280—11.12)

My invention relates to skates and more particularly to skate blade holders of a character adapted for holding skate blades of the self-sharpening type, particular reference being had to the type illustrated and described in my pending application for improvements in Skates, Serial No. 182,327, filed December 29, 1937.

One of the principal objects of my invention is to provide a skate blade holder fashioned and arranged for securing thereto a skate blade in a manner that the blade may be readily removed therefrom and reinserted therein.

Another object of my invention is to provide a blade holder of the above described character equipped with means for coaction with a skate blade for preventing longitudinal movement thereof.

A further object of my invention is to provide a blade holder of the above described character wherein a sectional blade may be readily detached therefrom, the sections transposed and reinserted therein.

A still further object of my invention is to provide a skate wherein the blade holder is of a one piece construction and adapted to accommodate blades of different forms for various types of skating.

Another further object of my invention is to provide a blade holder which is simple in construction, efficient and durable in use and economical in manufacture.

Other objects and advantages will be apparent from the following description, appended claims and annexed drawing.

Referring to the drawing wherein like reference characters designate like parts throughout the several views:

Figure 1 is a side elevation, partly in section, of a skate illustrating an embodiment of my invention therein.

Figures 2, 3, 4, and 5 are sectional views taken on the lines 2—2, 3—3, 4—4 and 5—5 of Figure 1 respectively.

Figure 6 is a sectional view taken on the line 6—6 of Figure 1 illustrating the blade removed from the holder.

Figure 7 is a transverse sectional view of the skate holder and blade secured therein illustrating the spacing strips.

In practicing my invention I provide a skate frame 5 comprising heel and toe plates 6 and 7, respectively, secured in position above a blade holder 8 by means of rear, intermediate and front standards 9, 9a and 10 respectively. The blade holder 8 extends longitudinally below the standards and is fashioned with integral upper and lower portions 11 and 12, respectively, the lower portion being channeled throughout the length thereof having oppositely disposed side walls 14. The inner faces 15 of the side walls 14 extend downwardly and inwardly and form inner faces of a pair of oppositely disposed clamping jaws which receive therebetween a skate blade 16 provided with transposable coextending sections 17.

The jaws are integrally constructed and of a sufficient resiliency to permit forced insertion of the blade 16 therebetween to clamp the same within the slot 13. Upon insertion of the blade 16 between the jaws, the walls 14 will be disposed in abutting engagement with the side faces of the blade as clearly illustrated in Figures 3, 4, 5 and 7. When the blade is removed from the holder, the walls, due to the resiliency of the structure, are disposed relative to each other in a manner to effect an inwardly and downwardly slanting thereof as clearly illustrated in Figure 6.

The front and rear ends of the holder 8 are fashioned with slots 18 and 19 respectively, in the upper portion 11 thereof, communicating with the longitudinally extending slot 13. The front slot 18, in the rear section thereof, receives therein the lower end of the front standard 10, the same being secured therein by means of a rivet 20. The front section of said slot 18 receives therethrough an upwardly extending front end section 21 of the blade 16. The rear slot 19 receives therethrough an upwardly extending rear end section 22 of the blade 16 and coacts with the lower end of the standard 10 within the slot 18 to prevent longitudinal movement of the blade relative to the holder and similar movement of the blade sections 17 relative to each other.

The lower ends of the standards 9 and 9a are secured in suitable openings 23 in the upper portion 11 of the holder by means of rivets 24. The upper ends of the standards 9, 9a and 10 are secured to the respective plates 6 and 7 by means of rivets 25.

The upper portion 11 of the holder 8, between the openings 23 and slots 18 and 19, is provided with elongated apertures 26 extending downwardly therethrough and communicating with the slot 13 whereby to lighten the weight of the holder.

From the foregoing it will be apparent that I have provided a blade holder adapted to have a blade, which may be of sectional construction as disclosed in my pending application heretofore mentioned, inserted therein and maintained therein through the clamping action of the jaws

and prevented from longitudinal movement through the coaction of the slots 18 and 19 with the end sections 21 and 22.

It is to be noted that when a blade is inserted between the jaws, the action of the walls 14 engaging the side faces of the blade provides a clamping action over the entire side faces of the blade throughout the length thereof.

The constant wearing of the blade and resultant sharpening thereof serves to shorten the same and in order to compensate therefor and maintain the skating edge of the blade in the same relative position below the blade holder, I provide spacing strips 27 for insertion between the upper face of the blade and the lower inner wall of the slot 13 as clearly illustrated in Figure 7 of the drawing.

What I claim is:

1. A device of the character described, comprising, a skate having a one piece blade holder fashioned with oppositely disposed resilient jaws adapted to receive and clamp therebetween a skate blade, said holder having slotted end sections for receiving end sections of said skate blade whereby to prevent relative longitudinal movement therebetween.

2. A device of the character described, comprising, a skate having a one piece blade holder fashioned with a lower longitudinally extending portion formed with a channeled section provided with resilient walls having opposed faces adapted to parallel the sides of a skate blade to clamp the same therebetween, said faces extending inwardly and downwardly when said blade is removed therefrom.

3. A device of the character described, comprising, a skate having a one piece blade holder fashioned with upper and lower longitudinally extending portions, said lower portion formed with a channel section provided with resilient walls having opposed faces adapted to parallel the sides of a skate blade to clamp the same therebetween, said faces extending inwardly and downwardly when said blade is removed therefrom, said upper portion formed with slotted ends whereby to receive offset end sections of said blade to prevent longitudinal movement thereof within said holder.

4. A device of the character described, comprising, in combination, a one piece skate blade holder fashioned with oppositely disposed resilient jaw sections, a skate blade having coextending transposable sections secured between said jaws and maintained therebetween by the stress exerted through the resiliency thereof, said blade provided with offset end sections, said holder having slotted end sections for receiving the end sections of said blade whereby to prevent longitudinal movement of the coextending sections of said blade within said holder.

5. A device of the character described, comprising, a skate frame having a one piece blade holder fashioned with oppositely disposed jaws adapted to receive and clamp therebetween a skate blade, said holder having slotted end sections, one of said sections adapted to receive an end of a supporting standard, both of said sections adapted to receive end sections of the skate blade whereby to position one of said end sections of the skate blade against the lower end of said standard to prevent longitudinal movement of the blade within the holder.

6. A device of the character described, comprising, in combination, a skate frame having a one piece skate blade holder fashioned with oppositely disposed resilient jaws, heel and toe plates above said holder, said holder provided with slotted end sections, standards connecting said holder to said heel and toe plates, one of said standards having an end secured within one of said slotted end sections of said holder, and a skate blade having coextending transposable sections secured between said jaws and maintained therebetween by the stress exerted through the resiliency thereof, said blade provided with offset end sections extending within said slotted sections of said holder and one of said offset sections engaging the end of said standard whereby to prevent longitudinal movement of the coextending sections of said blade within said holder.

WILLIAM J. GRUBB.