April 9, 1968 T. P. WHITE, SR 3,377,065

HOCKEY STICK ROAD ADAPTER

Filed July 9, 1964

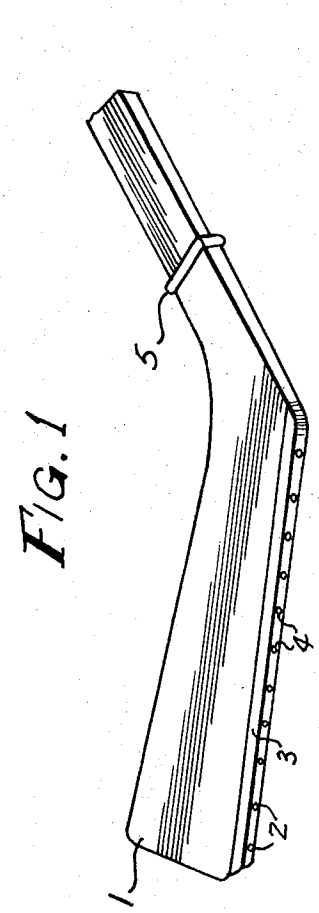


FIG. 1

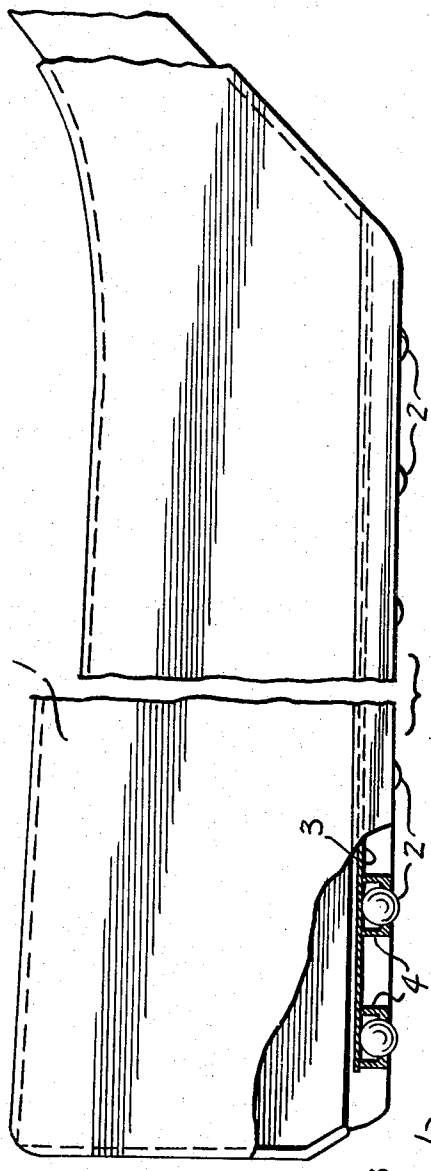


FIG. 2

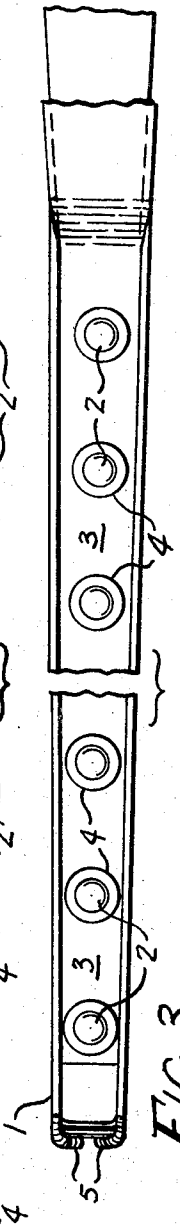


FIG. 3

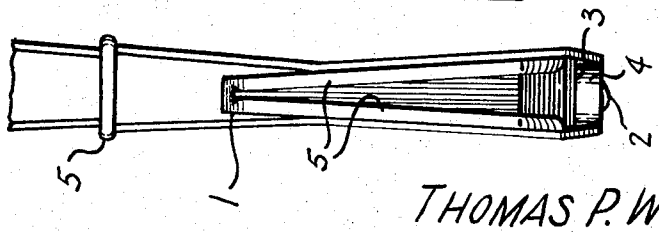


FIG. 4

INVENTOR.

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HOCKEY STICK ROAD ADAPTER

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4 Claims. (Cl. 273—67)

My invention relates to a novel exercising, skill and amusement device.

My invention relates particularly to a novel and improved means for using a hockey stick in combination with another article of manufacture.

My invention relates more particularly to a new article of manufacture which is used in combination with another article of manufacture, namely: the hockey stick used in playing the game of hockey.

My invention relates particularly to new and useful improvements and to a new article of manufacture which is used in combination with the hockey stick so as to provide the hockey stick with greater speed, mobility and avoidance of friction in playing hockey or similar games on asphalted, paved, wooden or ground surfaces or any other level or fairly level surface.

My invention relates more particularly to an article of manufacture to be used with a hockey stick which will adapt the hockey stick to wider, more varied and more extensive uses.

My invention relates particularly to an article of manufacture which permits the hockey stick to be used in combination with my invention to provide greater opportunities for training, beneficial exercises and amusement to hockey players and other persons interested in the game of hockey and generally to all persons interested in exercise, muscular training and diversion.

My invention relates more particularly to an article of manufacture which used with a hockey stick will provide training and exercise for hockey players and others in all seasons of the year.

My invention consists of a sleeve fabricated of rubber, plastic, nylon or any other suitable material which would stretch and have elasticity and be resilient and which is placed in position for use by being pulled on over the handle of the hockey stick to a position on the blade of the hockey stick. The open ends of the sleeve have curved and thicker surfaces which act as sleeve holders on the blade and handle of the hockey stick.

Into the bottom surface of this sleeve is fabricated an assembly which contains rollers made of plastic, nylon material or any other suitable material forming a unit with the holder or sleeve.

The holder or sleeve could be fabricated of any material which would hold the roller assembly and sleeve in place as described.

When the whole unit is in place on the hockey stick, the bottom surface of the sleeve, containing the roller assembly, is over the bottom surface of the blade of the hockey stick, namely: the surface of the blade of the hockey stick which would ordinarily be in contact with the playing surface of the rink or field in playing hockey. The sleeve is held in place by the holders and its own elasticity. The user then uses the hockey stick equipped with my invention as he would use a regular hockey stick.

By the use of my invention, the user, when striking a puck or other object, is able to reduce materially the friction between the playing surface and the bottom of the blade of the hockey stick as the rollers turn in their holders and retainers in the sleeve and the user is able to develop his co-ordination, dexterity and skill in shooting the puck and in stick-handling and otherwise.

An objective and advantage of my invention resides in the fact that, while the conventional hockey stick in its usual form of use cannot be used over asphalt, pavement, wooden or ground surfaces without impediment, my invention reduces or eliminates this condition or impediment.

A further objective and advantage of my invention resides in the fact that my invention reduces the friction between the hockey stick and the surface on which the hockey stick moves or strikes during the game.

A further objective and advantage of my invention is that it makes it more convenient to train hockey players and permits hockey players and others to practise hockey, puck-shooting, puck-placing and hockey stick handling on paved, asphalted, wooden, ground and other surfaces.

A further objective and advantage of my invention is that it aids the user in the development of quick reactions and dexterity in muscular control and co-ordination when playing the game of hockey or variations thereof and otherwise generally.

A further objective and advantage of my invention is that it makes it possible to provide such training and such exercise and benefits as are mentioned above, in all seasons of the year.

Other objects and advantages of my invention will be apparent from the description hereinafter found in the specification.

The embodiments of my invention are illustrated in the accompanying drawing in which similar reference characters are employed to identify the equivalent parts throughout all the different figures of the drawing.

In the drawing:

FIGURE 1 is a lateral and bottom view of a section of a hockey stick showing the bottom of the blade of the stick and showing my invention in place thereon.

FIGURE 2 is a lateral view in larger scale of the blade of a hockey stick in section, illustrating a practical embodiment of my invention thereon with a cut-away section showing the position and method of retention of the rollers on the underside or bottom of the blade of the hockey stick.

FIGURE 3 is a view of the bottom of the blade of a hockey stick face-on, showing the bottom of the sleeve and the roller assembly in detail, in place thereon.

FIGURE 4 is a view of the cross-section of the blade of a hockey stick viewed from the front of the blade and illustrates a practical embodiment of my invention showing the invention in place and illustrating the rollers, roller retainers, roller assembly and sleeve holders.

In the drawings I show the sleeve or container **1**, into which are fabricated the rollers **2**, which rollers rotate in roller pockets and retainers **4**, which are attached or fabricated into the sleeve and held in position in the sleeve by the holding assembly **3**.

The whole assembly being held on the hockey stick by the curved surfaces of the sleeve which act as holders **5**, and by the elastic material of which the sleeve is fabricated.

In FIGURE 1, the sleeve **1**, is shown on a hockey stick. The rollers **2**, in the holding assembly **3**, are held in place by the roller pockets and retainers **4**, and one sleeve holder on stick handle **5** is shown.

In FIGURE 2, the roller pockets and retainers **4**, hold the rollers **2**, attached to the roller holding assembly **3**, inside the sleeve **1**, sleeve holder on blade is shown **5**.

In FIGURE 3, a view of the bottom of the sleeve in position on the bottom of the blade of a hockey stick shows the rollers **2**, in the roller pockets and retainers **4**, and the sleeve holder on the blade **5**.

In FIGURE 4, a cross-section of the front view of the blade, another view of the roller pocket and the retainer **4**, is shown in a cross-section of the holding as-

sembly 3, holding the rollers 2. The sleeve holders are shown 5, on the arm and blade of the hockey stick.

To use my invention, the sleeve unit 1 containing the roller assembly 2, 3 and 4 is placed over the end of the hockey stick and pulled into position on the blade of the hockey stick where it is held in place by the curved surface or holders 5, which hold the sleeve in place on the blade of the hockey stick and on the stick handle. The resiliency or elasticity of the material of which the unit is fabricated also aids in holding my invention in place on the hockey stick. The user then uses the hockey stick equipped with my invention as he would use an ordinary hockey stick.

From the foregoing description of the various parts of my invention or device, the function and operation of same may be readily understood and the preferred embodiment realized.

As my invention may be embodied in forms other than as set out of my drawings and description, I therefore consider as mine all modifications and adaptions of my device which fairly fall within the scope of my appended claims.

Having described my invention I hereby particularly point out and distinctly claim and desire to secure by Letters Patent the following parts, improvements, articles and combinations as my invention and discovery:

1. An attachment for a conventional hockey stick of the type having a head portion and a handle portion, said attachment comprising an elastic sleeve having top, bottom, side and end portions, and having an overall configuration similar to that of said conventional hockey stick head, friction reducing devices on the bottom portion of said sleeve, whereby when said sleeve is fitted over said hockey stick head said friction reducing devices will engage a playing surface when said stick is in use.

2. A device as set forth in claim 1, in which said friction reducing devices are spherical shaped.

3. A device as set forth in claim 2, said friction reducing devices being molded in the bottom portion of said sleeve during manufacture thereof.

4. A device as set forth in claim 1 in which said sleeve completely encloses said head portion and part of said handle portion.

References Cited

UNITED STATES PATENTS

2,255,332	9/1941	Russell	273—174
2,495,679	1/1950	Abrecht et al.	273—194
2,727,744	12/1955	Watson	273—128

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