SPORT AND RECREATION SHOE

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ABSTRACT

A shoe has a recess portion on an upper side of an outsole, a sole touched surface layer on the upper side of the outsole, and a thermoplastic rubber for absorbing pressure and vibrating force on a wearer's foot so as to reduce the burden on the foot; the thermoplastic rubber is fitted in the recess portion of the outsole and covered by the sole touched surface layer, and an upper side thereof is formed with a concave and convex shape to fit a heel portion and an intermediate portion of a wearer's sole according to ergonomics; thus, that portion of the sole touched surface layer that is above the recess portion will have a concave and convex shape for fitting a heel portion and an intermediate portion of a wearer's sole; the thermoplastic rubber will reduce one-third to two-thirds of body weight pressure on the wearer's heel.
FIG. 3
(PRIOR ART)
SPORT AND RECREATION SHOE

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention

[0002] The present invention relates to a sport and recreation shoe, more particularly one, which is comfortable, capable of absorbing pressure and vibrating force on a wearer’s foot so as to reduce the burden on the foot.

[0003] 2. Brief Description of the Prior Art

[0004] Referring to FIGS. 3 and 4, a currently existing sport and recreation shoe has a sole, which includes an outsole 92, a sole touched surface layer 91 on an upper side of the outsole 92, and a soft pad 93 for absorbing pressure and vibrating force of the wearer’s foot so as to reduce the burden on the foot. The soft pad 93 is positioned on an upper side of the sole touched surface layer 91 every time before the wearer puts on the shoe.

[0005] Such a shoe will cause inconvenience to the wearer because the wearer has to position the soft pad on an upper side of the sole touched surface layer every time before he/she puts on the shoe. Furthermore, the soft pad is prone to slip away from the proper position while the wearer is walking.

[0006] Therefore, it is a main object of the present invention to provide an improvement on a sport and recreation shoe capable of absorbing pressure and vibrating force of the wearer’s foot to overcome the above-mentioned problems.

SUMMARY OF THE INVENTION

[0007] The sport and recreation shoe of the present invention has a recess portion on an upper side of an outsole, a sole touched surface layer on the upper side of the outsole, and a thermoplastic rubber for absorbing pressure and vibrating force on a wearer’s foot so as to reduce the burden on the foot. The thermoplastic rubber is fitted in the recess portion of the outsole and covered by the sole touched surface layer, and an upper side thereof is formed with such a concave and convex shape as to fit a heel portion and an intermediate portion of a wearer’s sole according to ergonomics. Therefore, that portion of the sole touched surface layer that is right above the recess portion of the outsole will have a concave and convex shape for fitting a heel portion and an intermediate portion of a wearer’s sole. The thermoplastic rubber will reduce one-third to two-thirds of body weight pressure on the wearer’s heel, making the shoe more comfortable and helping prevent the wearer from suffering shoulder sore and pain, vertebral stiffness, and insomnia.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] The present invention will be better understood by referring to the accompanying drawings, wherein:

[0009] FIG. 1 is an exploded perspective view of the present invention,

[0010] FIG. 2 is a lateral sectional view of the present invention,

[0011] FIG. 3 is a rear sectional view of the currently existing shoe, and

[0012] FIG. 4 is a perspective view of the currently existing shoe.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0013] Referring to FIGS. 1 and 2, a preferred embodiment of a sport and recreation shoe of the present invention includes an outsole 2, a sole touched surface layer 1 on an upper side of the outsole 2, a thermoplastic rubber 3. The outsole 2 is formed with a recess portion 21 on the upper side thereof, and the thermoplastic rubber 3 is positioned in the recess portion 21; thus, the sole touched surface layer 1 covers the upper side of the outsole 2 as well as the thermoplastic rubber 3.

[0014] The recess portion 21 extends over the whole heel portion and the intermediate shank portion of the outsole 2, and has the same shape as the rear half portion of the outsole 2.

[0015] The thermoplastic rubber 3 is tough, elastic, wear-resistant, recyclable, and environment friendly, and it has a flat bottom and the same circumferential shape as the rear half portion of the outsole 2 such that it can be fitted in the recess portion 21 of the outsole 2. An upper side of the thermoplastic rubber 3 is formed with such a concave and convex shape as to fit the heel portion and an intermediate portion of the wearer’s sole according to ergonomics; thus, when the sole touched surface layer 1 is positioned on the outsole 2 and the thermoplastic rubber 3, that portion of the sole touched surface layer 1 that is right above the recess portion 21 of the outsole 2 will also have a concave and convex shape fitting the heel portion and the intermediate portion of the wearer’s sole. Consequently, the wearer’s sole will closely touch the sole touched surface layer 1, and in turn the wearer feels the shoe sole fitting and comfortable owing to the softness and elasticity.

[0016] From the above description, it can be seen that the present invention has the following advantages:

[0017] 1. The shoe can help reduce pressure on the wearer’s vertebra, protect the waist and reduce the shocking force of the heel on the vertebra, which heel has to bear two thirds of the wearer’s weight when a person is walking or running, because the shoe sole has the thermoplastic rubber on the heel portion and the intermediate portion.

[0018] 2. The shoe is relatively durable because the thermoplastic rubber, which is used to absorb the pressure and vibrating force on the foot so as to reduce the burden on the foot, has very excellent elasticity and wear-resistibility without possibility of elastic fatigue.

[0019] 3. The thermoplastic rubber is held in the recess portion on the upper side of the outsole therefore a person doesn’t have to put the thermoplastic rubber in position every time before he/she wears the shoe, not going to cause convenience to the wearer.

[0020] 4. There is no possibility of the thermoplastic rubber slipping off the proper position in walking or running because the thermoplastic rubber is fitted in the recess portion and covered with the sole touched surface layer.
What is claimed is:

1. A sport and recreation shoe, comprising
   an outsole, said outsole having a recess portion on an upper side thereof;
   a sole touched surface layer on the upper side of the outsole; and
   a thermoplastic rubber held in the recess portion of the outsole and covered by the sole touched surface layer.

2. The sport and recreation shoe as recited in claim 1, wherein said recess portion extends over a whole heel portion and an intermediate shank portion of said outsole, having a same shape as a rear half portion of said outsole.

3. The sport and recreation shoe as recited in claim 1, wherein said thermoplastic rubber fits in said recess portion of said outsole, and an upper side thereof is formed with such a concave and convex shape as to fit a heel portion and an intermediate portion of a wearer’s sole according to ergonomics; thus, that portion of said sole touched surface layer that is right above said recess portion of said outsole will have a concave and convex shape for fitting a heel portion and an intermediate portion of a wearer’s sole.

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