The utility model discloses a shoe with a shell structure. The shoe with the shell structure is comprised of two main components, namely, a shoe shell and a shoe body. The shoe body is comprised of an upper, a bottom and a wearing opening, while the shoe shell is comprised of a vamp upper, a sole, a wearing opening and a buckle assembly.

The shell vamp upper and the sole form an inner space and the shoe body is just suitable for the inner space of the shoe shell. Therefore, a wearer can wear the shoe body and then put on the shoe shell.

If the shoe shell or the shoe body is damaged after being used for a long time, only the damaged assembly is replaced. The other good assembly can be continuously used, saving material and protecting the environment.

Furthermore, different designs of the shoe shell and shoe body can be produced, and the combination of shoe shell and shoe body can be exchanged and/or interchanged for the purpose of function, style or replacement.
SHOE SLEEVED STRUCTURE

TECHNICAL FIELD

[0001] This utility model relates to the technical field of footwear; separate uppers and outsole with a changeable shoe shell to house them.

BACKGROUND

[0002] The footwear unit (1) provides the characteristics of footwear with regards to traction, protection, support and durability but allows use with a variety of uppers (2). As 1 or 2 wears out, the still functional item (1 or 2) can still be used with a replacement of 1 or 2. This allows for maximum use of the individual components—1 (the shoe outsole, midsole, shell vamp upper) and 2 (the shoe body upper).

[0003] The existing sneakers (reference 60) also have the above mentioned characteristics, but the producing method is different. The uppers, outsoles and linings (62, 63) and other components are glued together or combined with threads, providing no chance to repair or replace one of these separately. In case one of those components, either the upper, lining of sole is damaged or broken, the whole shoe has to be replaced.

Utility Model Content

[0004] The main utility purpose is to be able to use different shoe uppers with the outsole/shell body and give the user the option to replace either component for whatever purpose they may desire. It is thus more economical and ecological.

[0005] The shoe shell component (1) has the following construction details:

[0006] The shoe shell component (1) is comprised of an outsole, midsole and molded vamp upper designed to fit the footwear upper (2) and create a secure attachment system between 1 & 2.

[0007] The shoe body upper (2) with a closed bottom surface is designed to fit into the interior surface of the shoe shell (1);

[0008] The vamp upper can be with vents;

[0009] Shoe shell can be made in one piece;

[0010] The shoe shell vamp uppers (1) can be sewn, bonded or welded together;

[0011] Upper materials (1) may be comprised of fabrics, synthetics, leathers or plastics;

[0012] The shoe body uppers can be sewn, bonded (with adhesive) or ultrasonically welded together. The outsole and shell unit can be sewn, bonded (with adhesive) or ultrasonically welded together;

[0013] A tab can be sewn on the shoe collar;

[0014] The shoe material can be fabrics, synthetics or leather materials;

[0015] The upper and bottom of the shoe body can be sewn, bonded (with adhesive) or ultrasonically welded together.

[0016] Therefore, this utility model has the following advantages:

[0017] The shoe body and shoe shell can be interchanged or replaced separately. It is thus more economical and ecological.

[0018] This utility model can be used as outdoor shoe. On the other hand, the shoe body upper (2) can be worn as a slipper indoors. The uppers can be disassembled from the outsole/shell (2) for this purpose.

[0019] This utility model is designed and engineered for diversity of style and function within the same product.

BRIEF DESCRIPTION

[0020] FIG. 1 is a perspective view of the utility model, showing the individual upper and outsole with shell.

[0021] FIG. 2 shows the upper as inserted into the outsole with shell and how it is worn.

[0022] FIG. 3 is another example of the product (both components).

[0023] FIG. 4 is another sample of a shoe body upper.

[0024] FIG. 5 is a configuration diagram of a conventional shoe.

SYMBOLS

[0025] 10, 101 a shoe with a shell structure;

[0026] 20, 50 shoe body 21, 51 upper of shoe body;

[0027] 22, 52 bottom of shoe body, 23, 53 wearing opening;

[0028] 24 backcounter of shoe body 25, 54 collar tab;

[0029] 30, 40 shoe shell;

[0030] 31, 41 upper of shell, 32, 42 outsole of shell;

[0031] 33, 43 shoe buckles assembly, 34 vents;

[0032] 35, 45 wearing opening of shell, 36 inner space;

[0033] 331 Velcro;

[0034] 431 shoe lace;

[0035] 55 shoe body;

[0036] 60 sneakers 61 shoe upper;

[0037] 62 outsole, 63 lining;

EMBODIMENT

[0038] The utility model is a shoe with shell structure (FIG. 1, 2). The shoe with a shell structure (10) is comprised of two main parts namely a shoe shell (30) and a shoe body (20). The shoe body (20) is comprised of upper (21) and bottom (22) which are sewn, glued or ultrasonically welded together. A wearing opening (23) is designed at space between backcounter (24), bottom (22) and upper (21). On top of the backcounter (24) is a collar tab (25). The material of shoe body (20) can be conventional fabrics or waterproof cotton. The shoe shell (30) is comprised of vamp upper (31), outsole (32) and buckles assembly (33). Vamp upper (31) and outsole (32) make an inner space (36). Vamp upper (31) and outsole (32) can be made in one piece. Or vamp upper (31) and outsole (32) can be made of plastic material of different traction and durability. And then they are sewn, bonded (with adhesive) or ultrasonically welded together. On top of the vamp upper (31) of the shell is the wearing opening (35) into which the shoe body is inserted. Additionally on the vamp upper are air vents (34). On the front part of the vamp upper (31) are buckles assembly (33) enabling adjustment for comfort.

[0039] FIG. 3 is another option of the utility model. The difference is that the shoe shell (40) of this utility model (101) is a kind of sneakers. The shell is comprised of vamp upper (41), outsole (42) and buckles assembly (43). On vamp upper (41) is a wearing opening (45), but without vents.

[0040] The buckles assembly of the above two options (10), (101) of the utility model can be Velcro (331) or lace (431).

[0041] FIG. 4 is another option of this utility model where the shoe body (50) is high cut compared with the above described low cut shoe body. This shoe body (50) is comprised of upper (51), bottom (52), wearing opening (53) and collar tab (54). The extended height (55) of the high cut body...
provides a much better protection for the ankle. This shoe body (50) can also be applied on shoe shell (30), (40) enabling different styles and/or combinations.

Although the present utility model is described with combination of the above mentioned embodiments, it is not limited to the above embodiments, it is defined only by the appended claims of patent rights. Any changes or modifications on this utility model will by no means fall out of essential concept and scope of the utility model.

1. A shell structure including:
   a shoe shell is comprised of a vamp upper, a sole, a wearing opening and a buckle assembly, wherein the vamp upper and the sole form an inner space;
   a shoe body is comprised of an upper, a bottom and a wearing opening.
   through the wearing opening of the shoe shell, the shoe body can fit into the inner space of the shoe shell.

2. A shell structure as claimed in claim 1, further comprising air vents on the upper.

3. A shell structure as claimed in claim 1, further comprising the shoe shell being one piece.

4. A shell structure as claimed in claim 1, wherein the shoe shell vamp uppers and soles are sewn, bonded (with adhesive) or ultrasonically welded together.

5. A shell structure as claimed in claim 1, wherein the material of shoe body is cotton or water-proof fabrics.

6. A shell structure as claimed in claim 1, wherein the shoe body uppers and bottom can be sewn, bonded (with adhesive) or ultrasonically welded together.

7. A shell structure as claimed in claim 1, further comprising a tab sewn on shoe collar.

8. A shell structure as claimed in claim 7, wherein the material of shoe body can be cotton or water proof fabrics.

9. A shell structure as claimed in claim 8, wherein the shoe body uppers and bottom can be sewn, bonded (with adhesive) or ultrasonically welded together.