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(54) **HEALTH SHOE WITH OZONE
GENERATING DEVICE**

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(76) Inventors: **Jung-Chou Huang**, Taipei City (TW);
Chiu-Jung Chu, Taipei City (TW);
Shun-Hsien Wang, Tainan Hsien (TW)

(57) **ABSTRACT**

Correspondence Address:
JUNG-CHOU HUANG
235 Chung-Ho
Box 8-24
Taipei (TW)

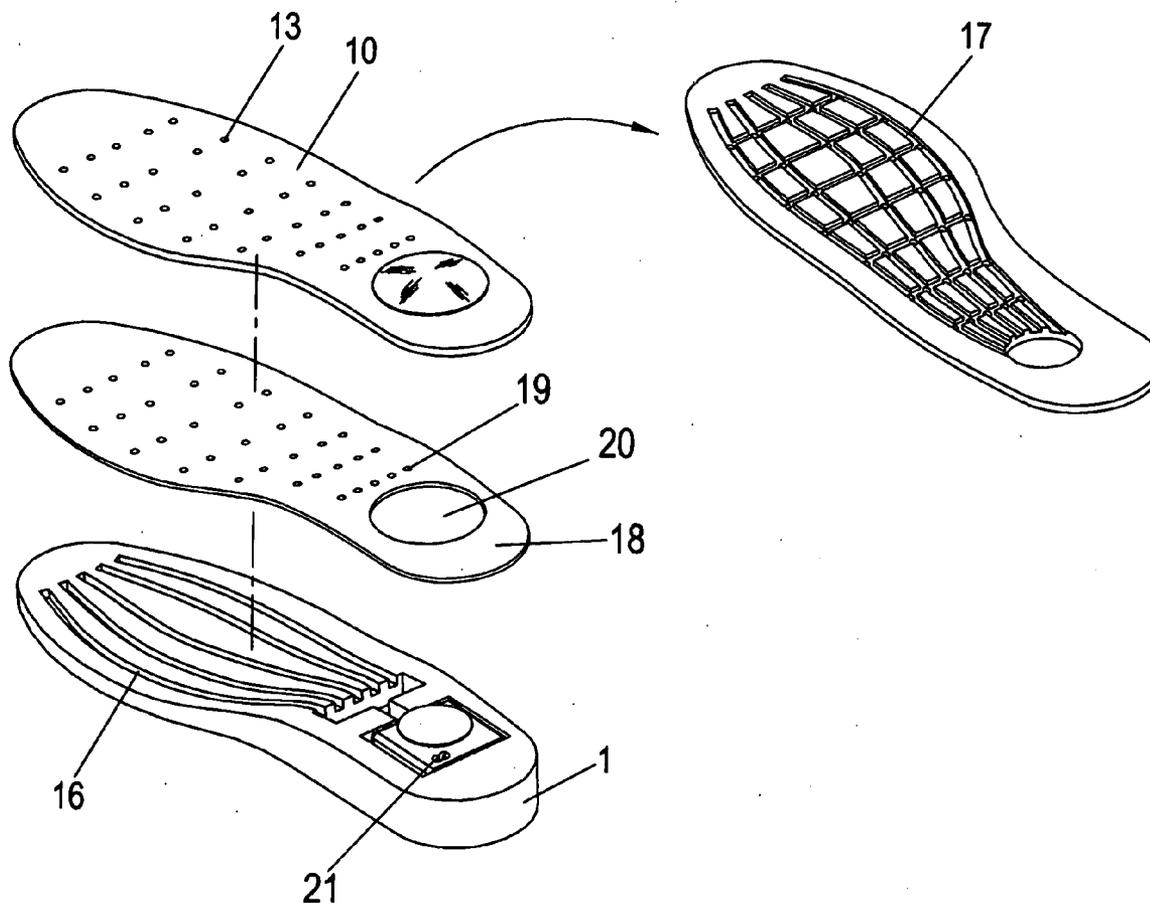
A health shoe comprises a rubber sole having a groove formed at a rear end of a heel portion at an upper surface of the sole; an ozone device being installed in the groove; the ozone device having a power charging seat; an upper side of the ozone device having a cambered pressible cover. A front end of the groove is formed with a storage tank; a trench serving to communicate the storage tank with the groove. A middle pad covers upon the upper surface; the middle pad having a plurality of air holes. Ozone can spray out from the air holes. A shoe pad covers upon the middle pad. When the thenar of a user presses upon the pressable cover, ozone will be emitted out to an upper surface of the shoe pad so as to sterilize the germs in the shoe.

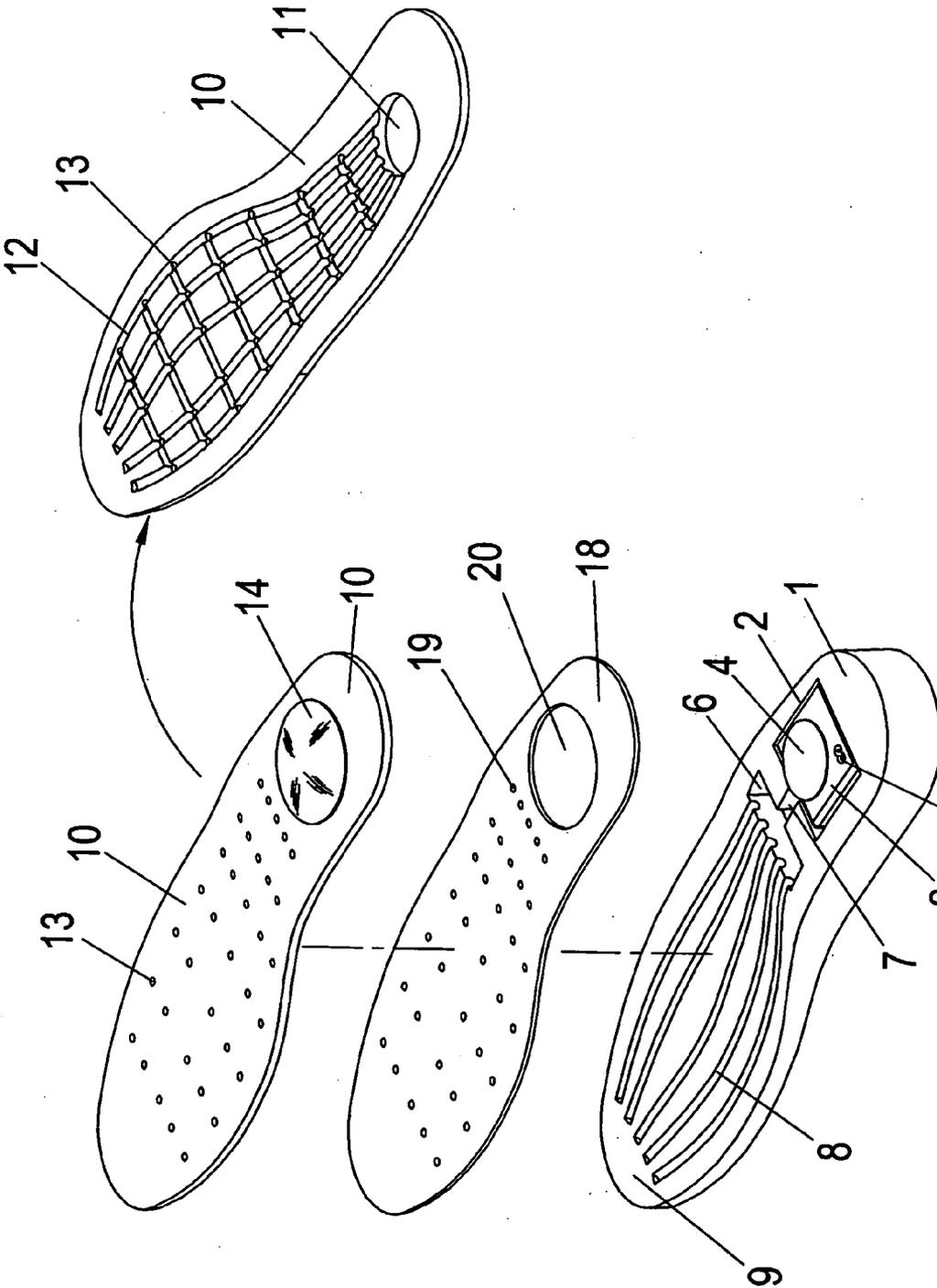
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21 Fig. 1

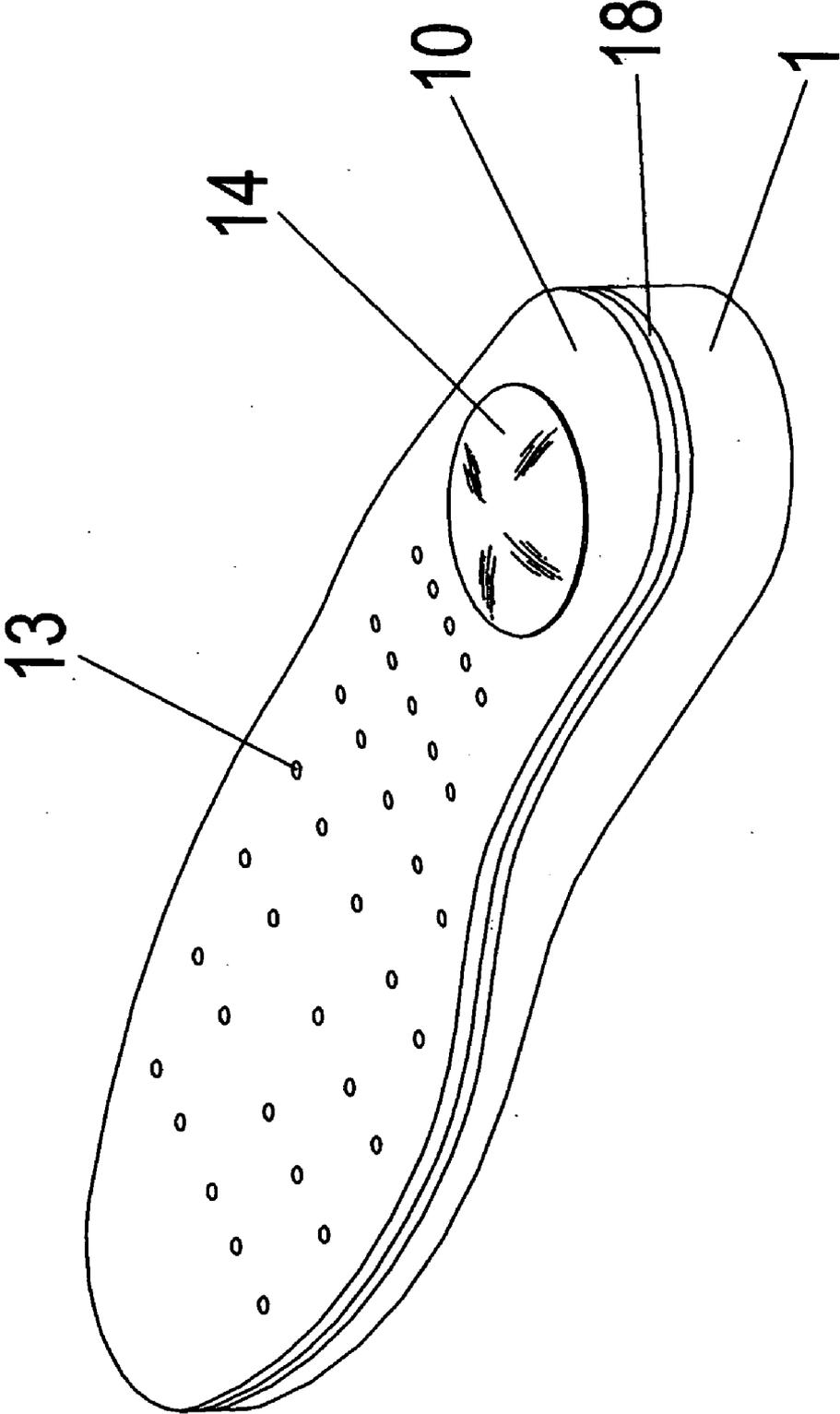


Fig. 2

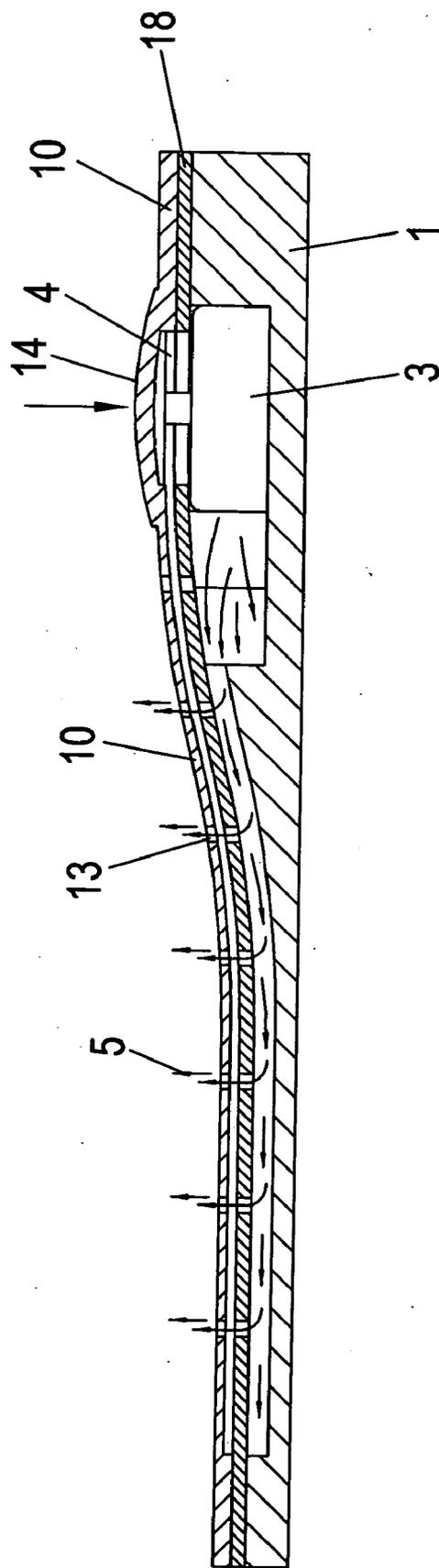


Fig. 3

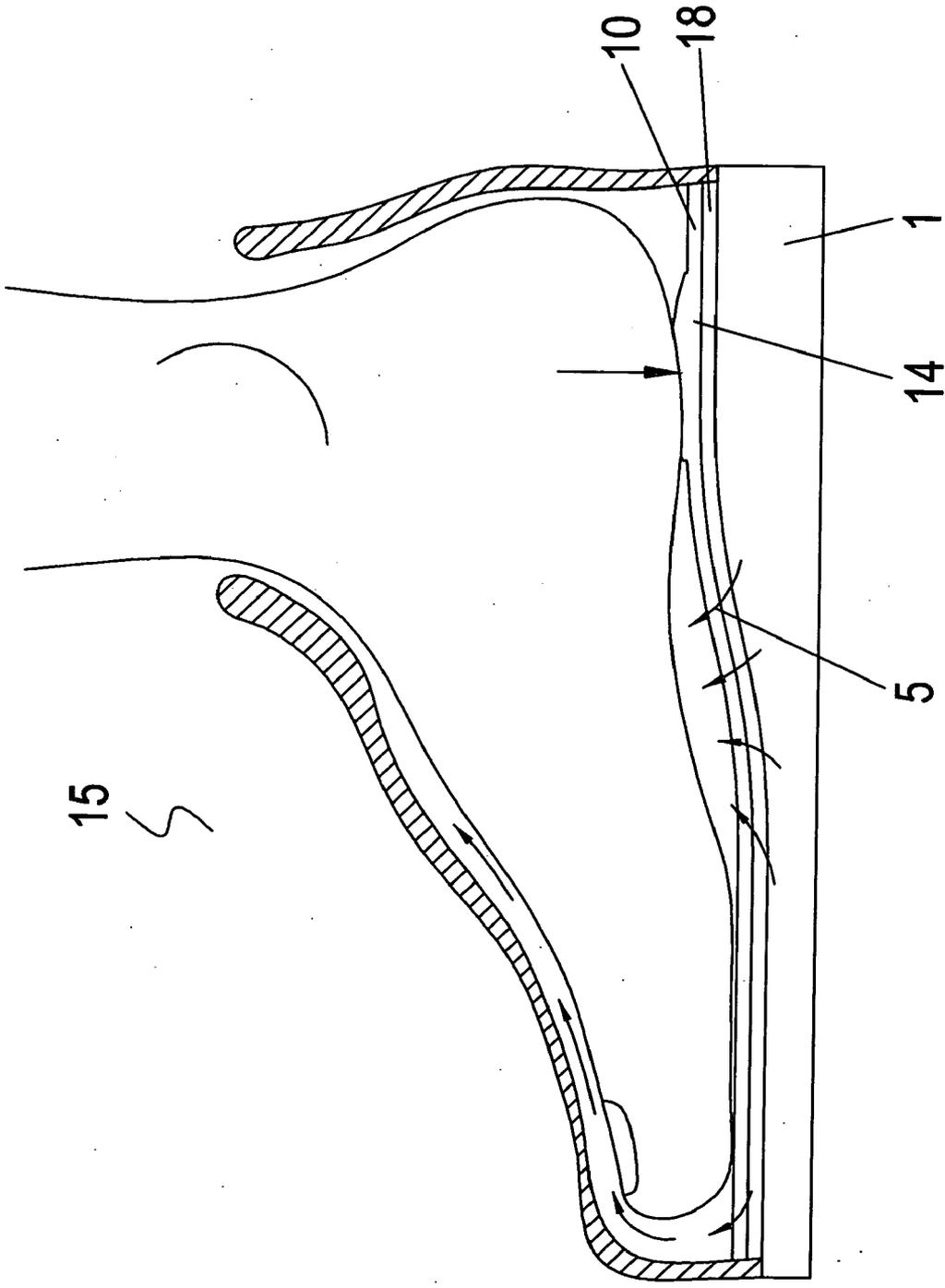


Fig. 4

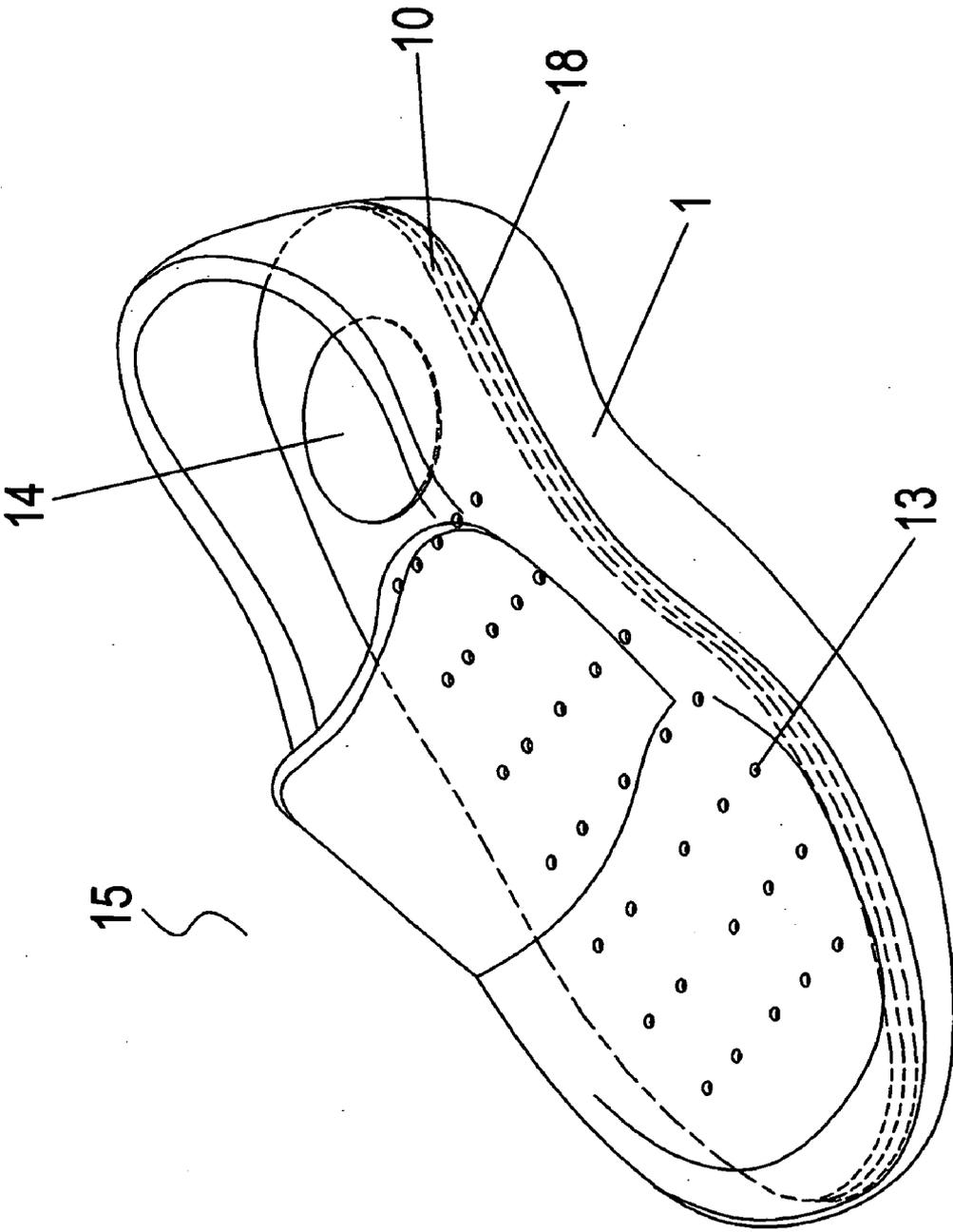


Fig. 5

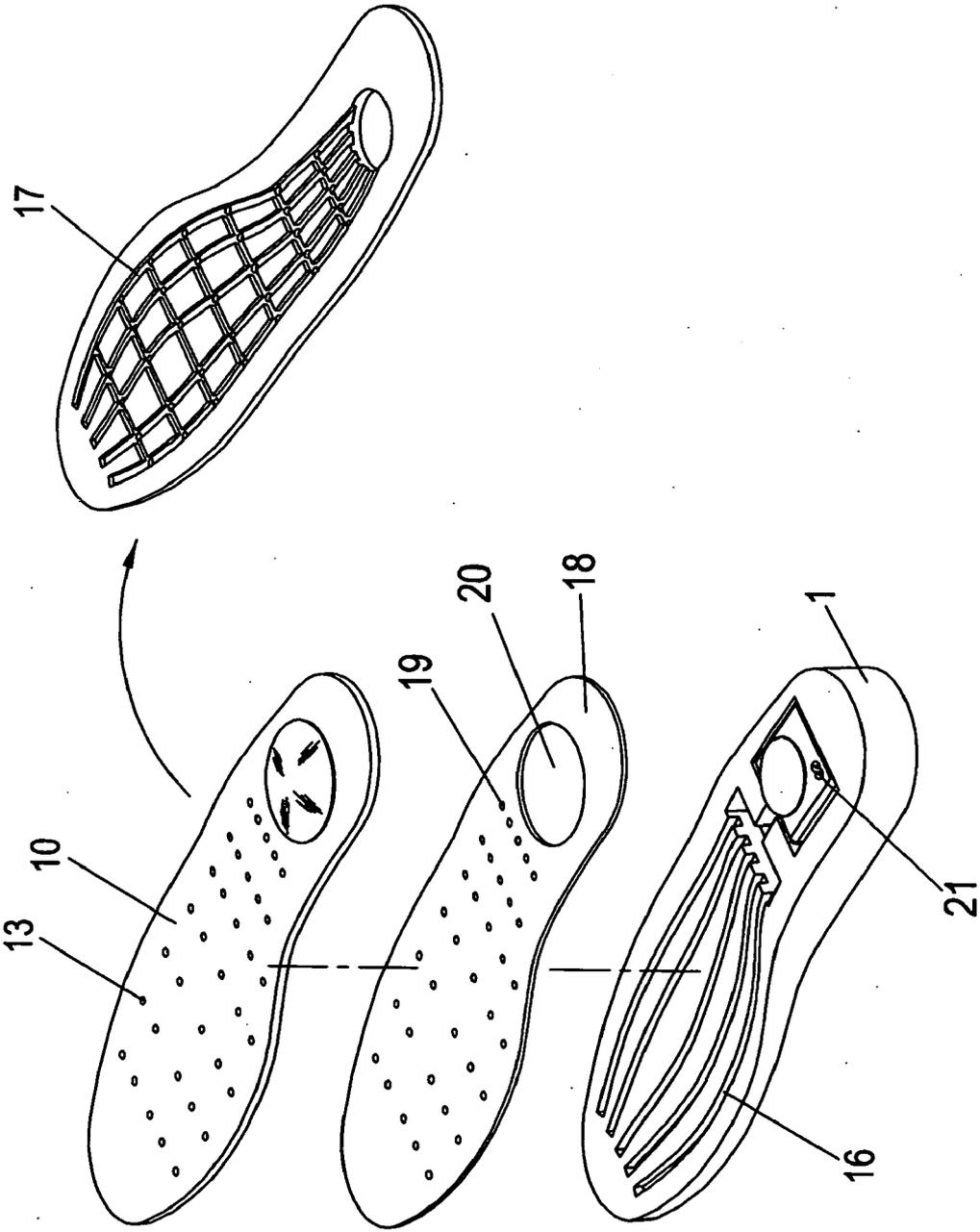


Fig. 6

HEALTH SHOE WITH OZONE GENERATING DEVICE

FIELD OF THE INVENTION

[0001] The present invention relates to shoes, and especially to a health shoe which has an ozone generating device at the sole section of the shoe. When the user treads upon the ozone generating device, ozone will be emitted so as to provide the function of sterilization. Thereby it provides a health effect to the legs of users.

BACKGROUND OF THE INVENTION

[0002] In the prior art, a rubber sole and a middle pad is formed as the bottom side of a shoe. However the shoe is not ventilative and is wet. Thus the thenar will easily get sick, for example, the thenar is infected by germs so as to get tinea, or blains. Thereby there is an eager demand for a novel design which can improve the defects of the prior art.

SUMMARY OF THE INVENTION

[0003] Accordingly, the primary objective of the present invention is to provide a health shoe which has an ozone generating device at the sole section of the shoe. When the user treads upon the ozone generating device, ozone will be emitted to provide the function of sterilization. Thereby it provides a health effect to the legs of users.

[0004] To achieve above objectives, the present invention provides a health shoe. The shoes is comprised of a rubber sole having a shape for receiving a leg; a groove being formed at a rear end of a reel portion at an upper surface of the sole; an ozone device being installed in the groove; the ozone device having a power charging seat; an upper side of the ozone device having a cambered pressible cover; wherever one presses after pressing the pressable cover, ozone is sprayed out from the ozone device; a front end of the groove being formed with a storage tank; a trench serving to communicate the storage tank with the groove; one lateral side of the storage tank being formed with a plurality of cambered recesses; one end of each cambered recess being connected to the storage tank; another end of each cambered recess extending to a front end of the sole; a middle pad covering upon the upper surface; the middle pad having a plurality of air holes; the ozone can spray out from the air holes; a rear end of the middle pad having a large hole for confining the ozone device; a shoe pad covering upon the middle pad; the shoe pad being made of foaming material for absorbing vibration; the shape of the shoe pad matching to that of the sole; a bottom side of the shoe pad having a round slot; an edge of the round slot being extended with a plurality of flow guide recesses; the flow guide recesses being communicated by a plurality of transversal recesses and a plurality of longitudinal recesses; the intersections of the flow guide recesses being formed with through holes which penetrate through the shoe pad; an upper side of the round slot protruding from a surface of the shoe pad which is matched to the pressable cover of the ozone device. When the thenar of the user presses upon the pressable cover, ozone will be emitted and pass through the groove, trench, storage tank, cambered recesses, round slot, flow guide recesses and the through holes to the upper surface of the shoe pad so as to sterilize the germs.

[0005] The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawing.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] FIG. 1 is an exploded view of the present invention.

[0007] FIG. 2 is an assembled view of the present invention.

[0008] FIG. 3 is a cross sectional view of the present invention.

[0009] FIG. 4 shows the embodiment about the operation of the present invention.

[0010] FIG. 5 is an assembly view of the present invention.

[0011] FIG. 6 shows the embodiment about the trench of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0012] In order that those skilled in the art can further understand the present invention, a description will be described in the following in details. However, these descriptions and the appended drawings are only used to cause those skilled in the art to understand the objects, features, and characteristics of the present invention, but not to be used to confine the scope and spirit of the present invention defined in the appended claims.

[0013] Referring to FIGS. 1, 2, 3, 4 and 5, a health shoe according to the present invention is illustrated. The health shoe can emit ozone air for sterilization and making thenar feels comfortable. The present invention has the following elements.

[0014] A rubber sole 1 has a shape suitable for receiving a leg. A groove 2 is formed at a rear end of a reel portion at an upper surface 9 of the sole 1. An ozone device 3 is installed in the groove 2. The ozone device 3 has a power charging seat 21. An upper side of the ozone device 3 has a pressible cambered cover 4. After one presses the cover 4, ozone is sprayed out from the ozone device 3. A front end of the groove 2 is formed with a storage tank 6. A trench 7 serves to communicate the storage tank 6 with the groove 2. The storage tank 6 has an oblong shape. The trench 7 has a rectangular shape. However the shapes of the groove 2, storage tank 6 and the trench 7 are not confined to the above mentioned shapes. Other shapes, such as round shapes, ball shapes, trapezoidal shape, etc., are permissible. One lateral side of the storage tank 6 is formed with a plurality of cambered recesses 8. One end of each cambered recess 8 is connected to the storage tank 6. Another end of each cambered recess 8 extends to a front end of the sole 1.

[0015] A middle pad 18 covers upon the upper surface 9. The middle pad 18 has a plurality of air holes 19. The ozone can spray out from the air holes 19. A rear end of the middle pad 18 has a large hole 20 for confining the ozone device 3.

[0016] A shoe pad 10 covers upon the middle pad 18. The shoe pad 10 is made of foaming material for absorbing vibration. The shape of the shoe pad 10 matches to that of the sole 1. A bottom side of the shoe pad 10 has a round slot 11. An edge of the round slot 11 is extended with a plurality of flow guide recesses 12. The flow guide recesses 12 are communicated by a plurality of transversal recesses and a plurality of longitudinal recesses. The intersections of the

flow guide recesses are formed with through holes which penetrate through the shoe pad 10. An upper side of the round slot 11 protrudes from a surface of the shoe pad 10 which is matched to the pressable cover 4 of the ozone device 3. Thereby the thenar of the use can press upon the pressable cover 4 so as to emit ozone through the groove 2, trenches 7, storage tank 6, cambered recesses 8, round slot 11, flow guide recesses 12 and the through holes to the upper surface of the shoe pad 10 so as to sterilize the germs and to make users' thenar feel easy.

[0017] Furthermore, referring to FIG. 6, the flow guide recess 12 and the cambered recess 8 are formed as rectangular shapes. However these will not confine the scope of the present invention. Other shapes are permissible. Thereby a left shoe is used as an example, while this will not confine the scope of the present invention.

[0018] The present invention is thus described, it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the present invention, and all such modifications as would be obvious to one skilled in the art are intended to be included within the scope of the following claims.

What is claimed is:

1. A health shoe comprising:

- a rubber sole having a shape for receiving a leg; a groove being formed at a rear end of a reel portion at an upper surface of the sole;
- an ozone device being installed in the groove; the ozone device having a power charging seat;
- an upper side of the ozone device having a pressible cambered cover; wherein after pressing the cover, ozone is sprayed out from the ozone device;
- a storage tank formed at a front end of the groove; a trench serving to communicate the storage tank with the groove; one side of the storage tank being formed with a plurality of cambered recesses; one end of each

cambered recess being connected to the storage tank; another end of each cambered recess extending to a front end of the sole;

a middle pad covering upon the upper surface; the middle pad having a plurality of air holes; the ozone can spray out from the air holes; a rear end of the middle pad having a large hole for confining the ozone device;

a shoe pad covering upon the middle pad; the shoe pad being made of foaming material for absorbing vibration; the shape of the shoe pad matching to that of the sole; a bottom side of the shoe pad having a round slot; an edge of the round slot being extended with a plurality of flow guide recesses; the flow guide recesses being communicated by a plurality of transversal recesses and a plurality of longitudinal recesses; the intersections of the flow guide recesses being formed with through holes which penetrate through the shoe pad; an upper side of the round slot protruding from a surface of the shoe pad which is matched to the pressable cover of the ozone device;

wherein when the thenar of the user presses upon the pressable cover, ozone will be emitted out and then pass through the groove, trench, storage tank, cambered recesses, round slot, flow guide recesses and the through holes to the upper surface of the shoe pad to sterilize the germs in the shoe.

2. The health shoe as claimed in claim 1, wherein the flow guide recess and the cambered recess are formed as rectangular shape.

3. The health shoe as claimed in claim 1, wherein the storage tank having an oblong shape and the trench has a rectangular shape.

4. The health shoe as claimed in claim 1, wherein the shapes of the groove, the storage tank and the trench are selected from one round shapes, ball shapes, and trapezoidal shape.

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