



TITLE OF THE INVENTION

FOOT NERVE PULSATOR

BACKGROUND OF THE INVENTION

5 (a) Technical Field of the Invention

The present invention relates to a device for massaging the soles of a user of the device, and in particular, a foot nerve pulsator which has a plurality of massaging protrusions to massage the soles.

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(b) Description of the Prior Art

One way of enhancing blood circulation of soles so as to promote body health is to walk bare foot on roads paved with stones, gravel and soils. This is due to the fact that the
15 foot nerves on the soles are stimulated by the unevenness of the road surface. In order to simulate this form of massaging the soles to promote body exercising to better health, a plurality of devices for massaging the soles have been developed, and these devices allow the user to
20 exercises with barefoot on the surface thereof.

China Utility Patent No. 96235931 discloses a pedal for soles massaging comprising a flat bottom plate having a plurality of densely distributed uneven height massaging
25 protrusions.

Another conventional art, China Utility Patent No. 952 34447, discloses a moveable soles massaging board



comprising a rectangular bottom board having mounted with a plurality rows and columns of positioning holes, wherein a plurality of nipple-shaped massaging protrusions are inserted into the individual holes. The massaging protrusions of the above conventional art are not moveable and thus the effectiveness of stimulating by massaging at the plantar arch region of the sole is rather limited but that at the transverse arch region of the sole is excessively large.

Accordingly, it is an object of the present invention to provide a foot nerve pulsator, which can mitigate the above-mentioned drawbacks.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a foot nerve pulsator, wherein the massaging protrusions are moveable in the course of operation of the device.

An aspect of the present invention is to provide a foot nerve pulsator for massaging soles comprising a base board and a plurality of nipple-shaped protrusions, characterized in that the base board includes a base seat having a plurality of rows of short posts and an upper board having a plurality of rows of holes corresponding to the short posts on the base seat, the circumferential edge of the upper board is secured to the base seat; the nipple-shaped protrusion includes a triggering bead having a center cavity with a downward

opening having a protruded edge thereon, and a spring inserted into the cavity, the lower end of the spring is mounted onto the short post on the base seat; the triggering bead is protruded from the hole of the upper board, and the
5 protruded edge is pressed by the edge of the hole of the upper board.

A further object of the present invention is to provide a foot nerve pulsator, wherein the triggering beads are
10 supported by spring and are moveable up and down in direction in accordance with the stepping of the soles.

Yet another object of the present invention is to provide a foot nerve pulsator, wherein the shape of the
15 covering surface of the individual triggering beads is similar to that of the soles, and the plantar arch region of the sole is sufficiently stimulated while the transverse arch region of the soles is not excessively pressed by force.

20 Other objects and advantages of the invention will become apparent upon reading the following detailed description and upon reference to the drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective view of a foot nerve pulsator in
5 accordance with the present invention.

Fig. 2 is a sectional view of a foot nerve pulsator in
accordance with the present invention.

10 Fig. 3 is a schematic view of the base seat of the foot
nerve pulsator of the present invention.

Fig. 4 is a schematic view of the upper board of the
foot nerve pulsator of the present invention.

15 Fig. 5 is a structural view of the triggering bead of the
foot nerve pulsator of the present invention.

Fig. 6 is a structural view of the spring of the foot
20 nerve pulsator of the present invention.

Fig. 7 is a status view showing the mounting of the
triggering beads with the spring onto the post of the base
seat of the present invention.

25 Fig. 8 is another structure view of the triggering beads
in accordance with the present invention.

Fig. 9 is a structural view of the upper cover ring of the present invention.

Fig. 10 is a structure view of the upper cover of the
5 present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

10 Referring now to Figs. 1 to 4, there is shown a foot nerve pulsator for massaging soles comprising a base board and a plurality of nipple-shaped protrusions. The base board includes a base seat 1 and an upper board 2; and the base seat 1 is provided with a plurality of rows of short posts and
15 the upper board 2 is provided with a plurality of rows of holes 6 corresponding to the short posts on the base seat 1. The circumferential edge of the upper board 2 is secured to the base seat 1, and the nipple-shaped protrusions includes a triggering bead 3 having a center cavity 7 with a downward
20 opening having a protruded edge 8 thereon, and a spring 4 inserted into the cavity 7. As shown in Fig. 2, the lower end of the spring 4 is mounted onto the short post of the base seat 1, and the triggering bead 3 is protruded from the hole 6 of the upper board 2, and the protruded edge 8 is pressed by
25 the edge 10 of the hole of the upper board 2.

As shown in Fig. 1, the triggering beads 3 are of large and small sizes arranged in a plurality of rows,

and the springs 4 consist of a large spring and a small spring where the large triggering bead 3 is mounted onto the large spring 4 and the small triggering bead 3 is mounted onto the small spring 4.

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As shown in Fig. 5, the centre of the top face of the triggering bead 3 is mounted with small protrusion 9. The small protrusion 9 will enhance stimulates of acupuncture points on the soles of the feet.

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As shown in Fig. 8, the centre of the top face of the triggering bead 3 is mounted with a magnetic block 11. The magnetic block 11 enables the acupuncture points on the soles of the feet being simultaneously stimulated by the
15 magnetic field.

Referring to Figs. 9 and 10, the upper board 2 includes an upper cover ring 12 and an upper cover 13, and the upper cover 13 is provided with hole 6 corresponding to
20 the small post on the base seat 1, and the upper cover ring 12 is mounted onto the outside of the upper cover 13 and the upper cover 13 is tightly pressed against the base seat 1. In view of the above structure of the present invention, it is comparatively convenient to manufacture the components,
25 and the assembly of the entire structure is simple.

While the invention has been described with respect to preferred embodiment, it will be clear to those skilled in

the art that modifications and improvements may be made to
the invention without departing from the spirit and scope of
the invention. Therefore, the invention is not to be limited
by the specific illustrative embodiment, but only by the
5 scope of the appended claims.

CLAIMS

1. A foot nerve pulsator for massaging soles comprising a base board and a plurality of nipple-shaped protrusions,
5 characterized in that the base board includes a base seat having a plurality of rows of short posts and an upper board having a plurality of rows of holes corresponding to the short posts on the base seat, the circumferential edge of the upper board is secured to the base seat; the
10 nipple-shaped protrusion includes a triggering bead having a center cavity with a downward opening having a protruded edge thereon, and a spring inserted into the cavity, the lower end of the spring is mounted onto the short post on the base seat; the triggering bead is
15 protruded from the hole of the upper board, and the protruded edge is pressed by the edge of the hole of the upper board.
2. A foot nerve pulsator as set forth in Claim 1,
20 characterized in that the triggering beads are of large and small sizes arranged in a plurality of rows, and the springs include a large spring and a small spring where the large triggering bead is mounted onto the large spring and the small triggering bead is mounted onto the
25 small spring.
3. A foot nerve pulsator as set forth in Claim 1 or 2, characterized in that the centre of the top face of the triggering bead is mounted with a protrusion.

4. A foot nerve pulsator as set forth in Claim 1 or 2, characterized in that the center of the top face of the triggering bead is mounted with a magnetic block.
5. A foot nerve pulsator as set forth in Claim 3, characterized in that the upper board includes an upper covering ring and an upper cover, and the upper cover is provided with holes corresponding to the short posts on the base seat, and the upper cover ring is mounted onto the outside of the upper cover and the upper cover is tightly pressed against the base seat.
6. A foot nerve pulsator as set forth in Claim 4, characterized in that the upper board includes an upper covering ring and an upper cover, and the upper cover is provided with holes corresponding to the short posts on the base seat, and the upper cover ring is mounted onto the outside of the upper cover and the upper cover is tightly pressed against the base seat.