electrically conducting door/port listings according to the invention is/are to be located may be determined by the person skilled in the art or the user of the device/system. In another embodiment of the device/system according to the invention comprising the electrically-conducting device comprises a cloth or sheet of an electrically non-conducing material such as silicon-covered cloth, wherein the electrically conducting and electrically non-insulated wires are secured to the ground in the lengthwise direction of the sheet so that the wires run mainly parallel to the ground.

Summary of Invention

According to a first aspect of the present invention, there is provided a device for preventing the passage of pests and vermin of a pre-determined size or smaller than this pre-determined size into a geographical area or building, wherein said device is present in the form of a horizontal listing, wherein said listing on its surface comprises a number of lengthwise or crosswise running electrically non-insulated electrically conducting wires or rails, said electrically non-insulated and electrically conducting wires or rails being short-circuited when being touched.

According to a second aspect of the present invention, there is provided a system for dispelling pests or vermin comprising a device as defined in the first aspect, wherein the system includes a source for providing electrical voltage to the electrically non-insulated wires/rails/listings, and wherein said system comprises at least one photocell that may register movement in the area around said device.

General Disclosure of the Invention

The device and system according to the present invention will be explained infra with reference to the enclosed figures wherein:

Fig. 1 shows an excerpt of an embodiment of a horizontal listing according to the invention,

Fig. 2 shows a possible wiring diagram for the current conduction in two electrical circuits S1,S2, said electrical circuits governing which one of the circuits, whereof one includes current-conducting and non-insulated wires or lists S3, and the second circuit comprises at least insulated wires S4 through which the electrical current is conducted, that are to be activated.

The present invention concerns a device of the type defined in claim 1. Furthermore, the invention concerns the use of such a device for keeping pests and vermin outside of a geographical area. The invention also concerns embodiments wherein the device comprises a gate listing/threshold listing running mainly horizontally between the frames of a door or gate opening, alternatively comprising a sheet or strip having mainly the same structures as the threshold listing, but wherein the sheet or strip stands vertically and runs over a geographical area such as a playground, a garbage shed, a cultivated area, etc. or combinations thereof. The invention also pertains a system wherein such a device is included, where said system also comprises a photo cell 7 and a photo emitter 8 sending light 9 to the photo cell 7, said photo cell 7 controlling which one of the said electrical circuits S1,S2 comprising current-conducting insulated wires S4 or non-insulated wires S3, that is to be activated.

Claims

1. Device for preventing the passage of pests and vermin of a pre-determined size or smaller than this pre-determined size into a geographical area or building, wherein said device is present in the form of a horizontal listing,
wherein said listing on its surface comprises a number of lengthwise or crosswise running electrically non-insulated electrically conducting wires or rails, said electrically non-insulated and electrically conducting wires or rails being short-circuited when being touched.

2. Device according to claim 1,
wherein said listing on its bottom side comprises a number of tracks inside said tracks there runs electrically insulated wires in the same direction a as the electrically non-insulated wires, wherein the electricity conducted by said electrically non-insulated wires or rails and electrically insulated wires alternatingly is transmitted by the electrically non-insulated rails or wires or the electrically insulated wires.

3. Device according to claim 1 or claim 2,
wherein said listing comprises at least one material that insulates said electrically non-insulated wires or rails electrically from each other.

4. Device according to claim 3,
wherein the listing material is made of an electrically insulating material.

5. Device according to any of the preceding claims,
wherein it additionally is equipped with a heating element on its rear side.

6. Device according to any of the preceding claims,
wherein the width of said device is adjusted to the width of a door, gate or port opening.

7. Device according to any of the claims 1 – 5,
wherein said device comprises a cloth.

8. Device according to any of the claims 1 – 6,
wherein the device is a door/threshold/gate listing.

9. Device according to any of the preceding claims,
wherein the substrate of said device comprises a number of indentations or grooves for leading away water.

10. System for dispelling pests or vermin comprising a device according to any of the claims 1 – 7,
wherein the system includes a source for providing electrical voltage to the electrically non-insulated wires/rails/listings, and wherein said system comprises at least one photocell that may register movement in the area around said device.

11. System according to claim 10,
wherein the system comprises at least two electrical circuits whereof one circuit comprises electrically insulated wires and the second comprises electrically non-insulated wires/rails/listings.

12. System according to any of the claims 10 or 11,
wherein at least one of the electrical circuits comprises a switch.

13. Device or system according to any of the preceding claims,
wherein the electrically non-insulated wires or rails conduct electricity with a voltage of several thousand volts down to about 1.5 V (e.g. 50000 V and below, e.g. 40000 V, 30000 V, 20000 V, 18000 V, 17000 V, 16000 V, 15000 V, 14000 V, 13000 V, 12000 V, 11000 V, 10000 V, 9000 V, 8000 V, 7000 V, 6000 V, 5000 V, 4000 V, 3000 V, 2000 V).

14. Device or system according to any of the preceding claims,
wherein the amperage carried by the non-insulated wires or rails lies within the interval 100 – 300 mA.

15. Device or system according to any of the claims 1 – 13,
wherein the amperage carried by the electrically non-insulated wires or rails is below 100 mA, e.g. less than 10 mA or less than 5 mA such as within the interval 1 to 10 mA or 5 – 10 mA).

16. Device or system according to any of the claims 1 – 13,
wherein the amperage carried by the electrically non-insulated wires or rails is below 1 – 5 mA.

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