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(54) **ILLUMINATED SIGNALLING DEVICE FOR PEDESTRIAN CROSSINGS**

(57) The invention relates to an illuminated signalling device for pedestrian crossings, comprising a support which is fixed to the pavement and which is used to house all of the mechanisms necessary for the operation thereof. The invention also comprises a timed push button which is disposed on the aforementioned support at a height of approximately one metre above the ground and which is used to start the device. The upper part of the support comprises an illuminated panel displaying the graphic signal which indicates the existence of a pedestrian crossing. Moreover, the rear of said illuminated panel is designed such that easily-replaceable advertising can be housed therein and, if necessary, an acoustic system for the visually impaired can be installed, which is activated simultaneously with the illuminated panel. The inventive device is preferably connected to the low-voltage network of the public thoroughfare or, under other circumstances, mechanisms for the use of alternative energy sources can be installed. According to the invention, one signal is provided for each direction and if more than one unit is to be installed at the same pedestrian crossing, said units are connected by means of under-pavement wiring.

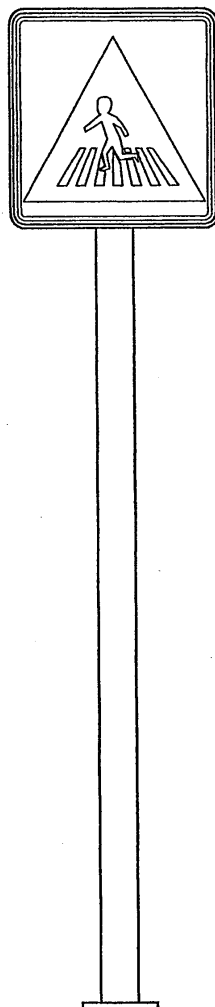


FIGURE 1

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Description

Claims

OBJECT OF THE INVENTION

[0001] The object of this invention is to reduce the number of casualties caused by runovers. The invention comprises a vertical illuminated traffic sign which serves to show pedestrian crossings without traffic lights, and which can be turned on by the pedestrians themselves.

DESCRIPTION OF THE INVENTION

[0002] The device of the invention shows a new structure that comprises a stand fixed to the road surface, which houses inside all the necessary mechanisms for its proper operation.

[0003] Such stand comprises an easily identifiable, timer-controlled push button, at an approximate height of one meter, the purpose of which is to turn on the device.

[0004] An illuminated panel is attached to the upper part of the stand, at a height of two meters. Such panel sets off the graphic sign that shows the presence of a pedestrian crossing. Furthermore, the back of the illuminated panel is foreseen so that it may be adapted to house advertising items that can be easily replaced.

[0005] The device will preferably be connected to the Low Voltage Network of the public road system, and meets the R.E.B.T. regulations in force.

[0006] Under any other circumstances, mechanisms will be installed to exploit alternative power sources.

[0007] If necessary, an acoustic system for visually impaired pedestrians will be installed, and will be activated simultaneously with the illuminated panel.

[0008] One signal will be available for each direction of the traffic. If more than one unit must be installed at the same pedestrian crossing, they will be connected by means of wires running under the road surface.

[0009] The device will preferably be manufactured using anti-vandalism materials.

[0010] To complement the following description, and to better understand the characteristics of the invention, a set of drawings is attached to the following detailed description. On the basis of such figures, the innovations and advantages of the device object of the invention will be understood more easily.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011]

Figure 1.- Shows a front view of the device.

Figure 2.- Shows a cross-section of one of the sides of the device.

1. Illuminated signalling device for pedestrian crossings, **characterized in that** it comprises a stand (4) anchored to the road surface (2) which houses an accessible (6) transformer (5) inside such stand, and **in that** the outer part comprises a turning-on system comprising an information display (8) and a timer-controlled push button (7) that turns on an illuminated panel (9) and, if necessary, an acoustic system for the visually impaired (13), such panel being fixed to the back of the stand and showing the pedestrian crossing sign (11), the back part being reserved for advertising (10).

Amended claims under Art 19.1 PCT

1. Illuminated signalling device for pedestrian crossings, of the type comprising a stand (4) fixed to the road surface (2) which houses a transformer (5) with an accessible area (6) and turning-on means, comprising an information display (8) and a timer-controlled push button (7) **characterized in that** it comprises an illuminated panel (9) and an acoustic system (13) for the visually impaired, such illuminated panel incorporating the pedestrian crossing sign (11), the back part (10) comprising an area for advertising.

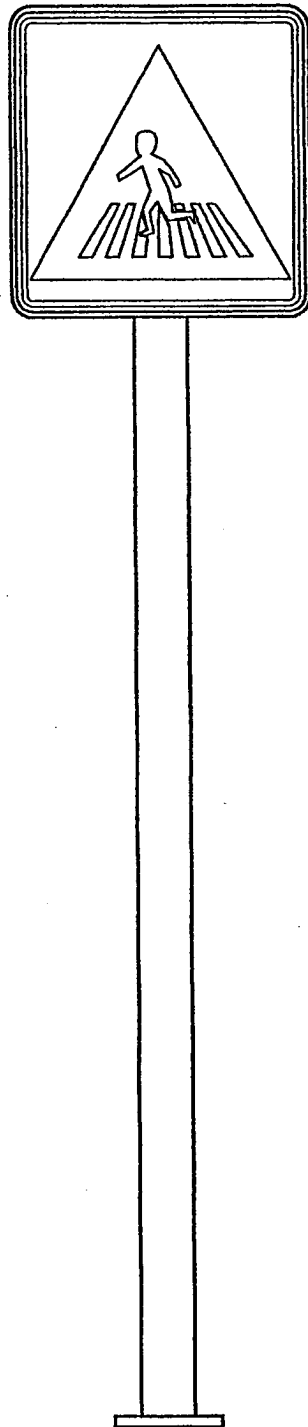


FIGURE 1

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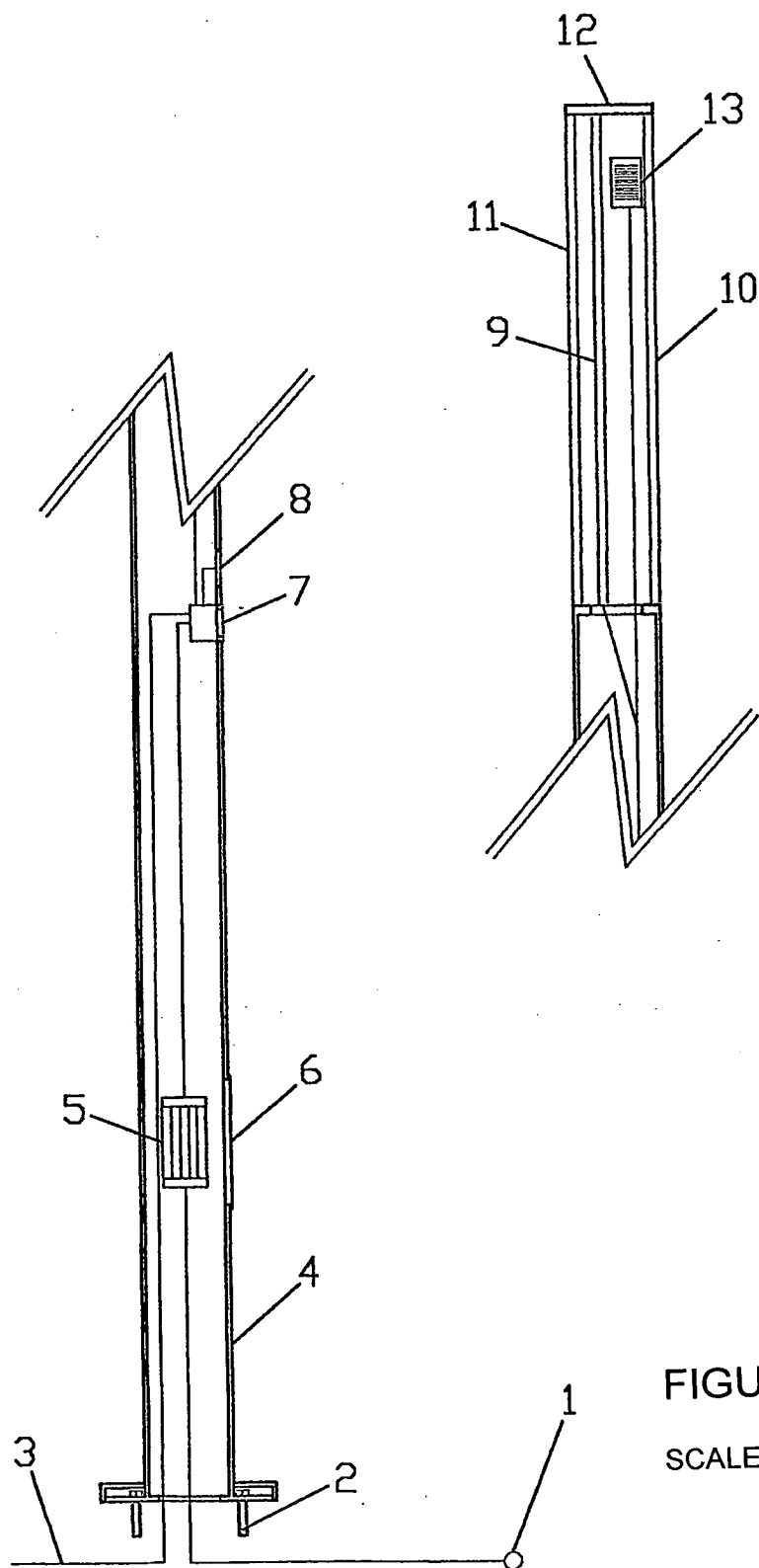


FIGURE 2

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/ ES03/ 00531

A. CLASSIFICATION OF SUBJECT MATTER		
Int.Cl.7 E01F9/016, G08G1/005		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Int.Cl.7 E01F, G08G		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
EPODOC, WPI, PAJ, CIBEPAT		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 187 418 A (HARRIS) 05.02.1980 Figure 1	1
Y	GB 2 254 176 A (Traffic Systems) 30.09.1992 abstract , Figure 1	1
Y	US 4 253 083 A (Inamura) 24.02.1981 abstract , Figure 1	1
A	US 5 150 116 A (West) 22.09.1992	1
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
SPTO		8 January 2004 (08.01.04)
Name and mailing address of the ISA/		Authorized officer
11 December 2003 (11.12.03)		
Facsimile No.		Telephone No.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/ ES03/ 00531

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