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I-40137 Bologna (IT)**(54) **Portable light table for the turnover of the players onto the playing field.**

(57) The portable device consists of a double-faced table (26) with a couple of handles for the gripping formed by two grooves (27) and to be started by a switch (28). For the use, the switch (28) is activated and on the two service displays (14 and 24) the indications "00" are visualized. Acting on the push buttons (7 and 8) is starting the running of the numbers for the player due to go out till to reach the wished number which is visualized on the service display (14) and it remains in stand-by position. Then in the same way is acting on the push buttons (17 and 18) so to select the number of the player due to go on which is showed on the service display (24). Raising the double-faced table (26) the push button (4) is pushed and on the display (1) is showed with alternated image the number selected on the service display (14). Releasing the push button (4) the display (1) is turn off. Pushing on the push button (3) on the display (1) is showed with fixed image the number selected on the service display (24). Releasing the push button (3) the display is turn off again and all the electronic device is turn off by the switch (28).

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The invention refers to a portable electronic table to exhibit on a double-faced light display the identification numbers of the player who must go out and of the one who must go on during a football match. These numbers to be exhibited in differentiated way: with fixed image one and with alternated image the other so to immediately understand the two players to be alternated. The operator acts on the table controls to determine the numbers on the display, these numbers to be seen on both the faces of the table and he shows the double-faced table holding it raises with the two arms near the playing field border. In this way it is possible contemporary to show both to the persons on the playing field, players and referees, than to the audience the turnover which is coming among the players. Particularly in the football game the current trend tends to make changing in the rules to reduce to a minimum the interruption time in the game so increasing the effective game time and also to limit the game fragmentariness, this to avoid facts that come to damage the match spectacularity. Currently the operator, incaricated to indicate on the playing field the turnover of a player with another one, generally uses a book exhibiting or a signal stick on which on cards are clearly indicated the numbers of the player to must go on and of that one to must go out. Said means have at least two drawbacks: they are to be seen only by a side therefore if they are showed toward the playing field they cannot be seen from the tiers and moreover they can be seen only from a small distance. The invented device instead realizes a new light table where the composition of the numbers to show is coming by means of electronic controls and the said numbers are to be seen on a double-faced light display and with differentiated effect so immediately permitting to understand the numbers of the player who trust go out and of the player who trust go on. Thease advantages are permitted by the invented portable table consists of a light display 1 starting by a driving device 2 to be started by means of the push button 3 or alternatively from the second push button 4. The driving device 2 transmits to the light display 1 the number that the selector 5 sends it. To the selector 5 come the preselected numbers from one of the electronic devices: one for the number of the player who trust go out and the other for the number of the player who trust go on. Referring to the electronic device forming the number for the player who trust go out, the counter 6 is raising by means of the activation of one of the push buttons 7 or 8 of a checking device 9 that, activating the counting, drives a counter 10 starting a relay 11 which increases the frequency of the oscillator 12. The number reached from the counter 6 is then sent through a decoder 13 to a service display 14 and

in the same way through a second decoder 15 to the selector 5. Referring to the electronic device forming the number for the player who trust go on, the counter 16 is raising by means of the activation of one of the push buttons 17 or 18 of a checking device 19 that, activating the counting, drives a counter 20 starting a relay 21 which increases the frequency of the oscillator 22. The number reached from the counter 16 is then sent through a decoder 23 to a service display 24 and in the same way through a second decoder 25 to the selector 5. Externally the portable device consists of a double - faced table 26 with a couple of handles for the gripping formed by two grooves 27 and to be started by a switch 28. For the use, the switch 28 is activated and on the two service displays 14 and 24 the indications "00" are visualized to indicate the numbers with tens and units. Then acting on the push buttons 7 and 8 is starting the running of the numbers for the player who trust go out till to reach the wished number which is visualized on the service display 14 and it remains in stand-by position. Then in the same way is acting on the push buttons 17 and 18 so to select the number of the player who trust go on. The wished number is showed in the service display 24. Raising the double-faced table 26 the push button 4 is pushed and on the display 1 is showed with alternated image the number selected on the service display 14 and which stated the player who trust go out. Releasing the push button 4 the display 1 is turn off. Pushing on the push button 3 on the display 1 is showed with fixed image the number selected on the service display 24 and which stated the player who trust go on. Releasing the push button 3 the display is turn off again. All the electronic device is turn off by the switch 28. For the re charge of the batteries is foreseen a power supply to 220V/15VA with continuous working and with the maximum absorption of led. The invented portable table is illustrated in indicative way in its function in sheet 1 and as externally appears in sheet 2. In sheet 1 fig. 1 is block circuit of the electronic devices. Are to be seen the two electronic devices: one for the number of the player who trust go out and the other for the number of the player who trust go on and also the elements for the visualization of the numbers. In sheet 2 fig. 2 is frontal view of one of the two sides of the portable table. Fig. 3 is view of the table in use position.

Claims

1. Portable light table for the turnover of the players onto the playing field consists of a light display (1) starting by a driving device (2) to be started by means of a push button (3) or alternatively by a second push button (4), and

where the driving device (2) transmits to the light display (1) the number that a selector (5) sends it; characterized in that to the selector (5) come the preselected numbers from one of the two electronic devices; the electronic device forming the number for the player to go out where a counter (6) is raising by means of the activation of one of the push buttons (7 or 8) of a checking device (9) that, activating the counting, drives a counter (10) starting a relay (11) which increases the frequency of the oscillator (12), the number reached from the counter (6) is then sent through a decoder (13) to a service display (14) and in the same way through a second decoder (15) to the selector (5); the electronic device forming the player to go on where the counter (16) is raising by means of the activation of one of the push buttons (17 or 18) of a checking device (19) that, activating the counting, drives a counter (20) starting a relay (21) which increases the frequency of the oscillator (22); the number reached from the counter (16) is then sent through a decoder (23) to a service display (24) and in the same way through a second decoder (25) to the selector (5).

2. Portable light table for the turnover of the players onto the playing field, as per claim 1), characterized in the fact that it consists of a double-faced table (26) with a couple of handles for the gripping formed by two grooves (27) and to be started by a switch (28); for the use the switch (28) is activated and on the two service displays (14 and 24) the indications "00" are visualized; then acting on the push buttons (7 and 8) is starting the running of the numbers for the player to go out till to reach the wished number which is visualized on the service display (14) and it remains in stand-by position; then is acting on the push buttons (17 and 18) so to select the number of the player to go on, the wished number is showed in the service display (24); raising the double-faced table (26) the push button (4) is pushed and on the display (1) is showed with alternated image the number selected on the service display (14) and which stated the player to go out; releasing the push button (4) the display (1) is turn off ;pushing on the push button (3) on the display (1) is showed with fixed image the number selected on the service display (24) and which stated the player to go on; releasing the push button (3) the display is turn off again; all the electronic device is turn off by the switch (28).

3. Portable light table for the turnover of the players onto the playing field, as per claim 1), characterized in that for the recharge of the batteries is foreseen a power supply to 220V/15VA with continuous working and with the maximum absorption of led.

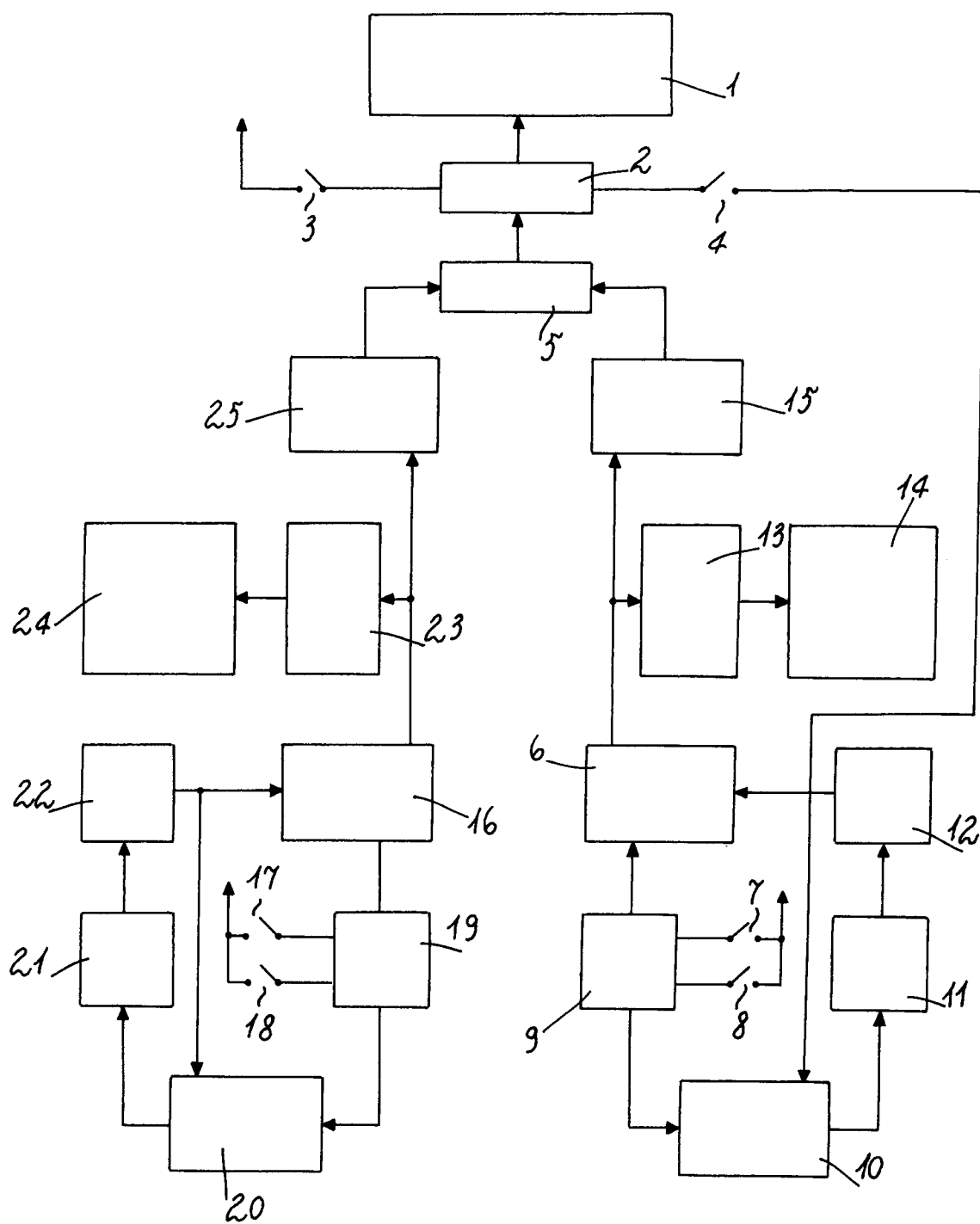


FIG.1

