

center reel R2 so as to spin; and the right reel driving motor 53 drives the right reel R3 so as to spin. In the embodiment, the driving motors are constituted of stepping motors. Consequently, the CPU 31 can correctly determine a stop position for the left reel R1, that for the center reel R2, and that for the right reel R3 by adjusting the number of pulses of respective drive signals 51a, 52a, 53a to be supplied to the left reel driving motor 51, the center reel driving motor 52, and the right reel driving motor 53, respectively.

[0120] Each of the motors 51, 52, 53 is constructed so as to spin once in response to 420 pulses. As mentioned above, 21 symbols are formed on each of the reels R1, R2, and R3. One symbol can be advanced by supplying 20 pulses to the motor. The CPU 31 counts the number of pulses to be supplied to the motors 51, 52, and 53. Count results are retained as position data MD1, MD2, and MD3. Values of the position data MD1, MD2, and MD3 are reset at timings at which the detection signals 47a, 48a, and 49a become active.

[0121] FIG. 9 is a timing chart showing the relationship between the detection signal 49a, the symbol number PN, a drive signal 53a, and the position data MD3. As illustrated, when the detection signal 49a rises from a low level to a high level at time t1, the value of the position data MD3 is reset. At time t1, the shading piece 491 shown in FIG. 2 passes through the photocoupler 492. At this time, in relation to the spinning position of the right reel R3, the symbol assigned symbol number PN=1 (BELL) shown in FIG. 4 is displayed in a middle row of the display window 4c. In other words, attachment positions of the shading piece 491 and the photocoupler 492 are determined such that a symbol appears in the middle row of the display window 4c.

[0122] During a duration from time t1 to time t2, 20 pulses are supplied to the left reel drive motor 51 as a drive signal 53a, and the right reel drive motor 53 spins the right reel R3 one-twenty-first of a rotation. As a result, the symbol assigned symbol number PN=2 (PLUM) shown in FIG. 3 appears in the middle row of the display window 4c. Symbols are sequentially displayed in the same manner. When time t3 has come, the right reel R3 spins once, and the symbol assigned symbol number PN=1 (BELL) appears. In this way, the detection signal 49a, the symbol number PN, the drive signal 53a, and the position data MD3 are closely related to each other. The CPU 31 can detect a displayed state of a symbol on the basis of the position data MD3.

[0123] On the basis of the position data sets MD1 and MD2, the CPU 31 can sense a displayed state of a symbol on the left reel R1 and a displayed state of a symbol on the center reel R2.

[0124] A voltage signal 21a is supplied to the left reel liquid-crystal panel 21; a voltage signal 22a is supplied to the center reel liquid-crystal panel 22; and a voltage signal 23a is supplied to the right reel liquid-crystal panel 23. Voltages of the voltage signals 21a, 22a, and 23a are set to the voltage V at which liquid crystal become translucent. Consequently, when the voltage signals 21a, 22a, and 23a become active, the mask area MS (see FIG. 3) becomes translucent, and a symbol which is visible through the non-mask areas NM is highlighted.

[0125] Operation of the slot machine 1A will now be described. FIG. 10 is a flowchart showing the operation of

the overall slot machine performed when the CPU 31 has executed the control program CP.

[0126] In accordance with a detection signal output from the inserted token detector 41 and that output from the BET button 42, the CPU 31 performs a bet receiving operation when the player inserts a token or performs a betting operation (step S21).

[0127] Subsequently, in accordance with the number of tokens inserted or bet by a betting operation, the CPU 31 displays, on the auxiliary display section 20, validated paylines of the paylines L1 through L5 (step S22). As mentioned previously, the auxiliary display section 20 is constituted of five LEDs. When corresponding paylines of the paylines L1 through L5 are valid, the auxiliary display section 20 is illuminated. Hence, the player can ascertain valid paylines from among the paylines L1 through L5.

[0128] Subsequently, in accordance with a detection signal from the start lever sensor 43, the CPU 31 determines whether or not the player has validly actuated the start lever 6. Even if the player has actuated the start lever 6 without inserting or betting tokens, a result of determination performed in step S23 becomes NO. In this case, the CPU 31 repeats processing pertaining to steps S21 through S23.

[0129] When actuation of the start lever 6 is valid, a result of determination made in step S6 becomes "YES." The CPU 31 supplies the drive signal 51 a to the left reel drive motor 51 so as to start spinning of the left reel R1, supplies the drive signal 52a to the center reel drive motor 52 so as to start spinning of the center reel R2, and supplies the drive signal 53a to the right reel drive motor 53 so as to start spinning of the right reel R3. In accordance with the control program CP, the CPU 31 performs an internal lottery operation (step S24).

[0130] Internal lottery operation is performed in the following manner. First, the CPU 31 executes sampling of count data CD at a timing at which a detection signal output from the start lever sensor 43 has become active, to thereby acquire sampled data SD. Second, the CPU 31 generates internal selection data ISD by reference to the prize group sampling table TBL1 stored in the ROM 35. For instance, FIG. 4 shows contents stored in the prize group sampling table TBL1. When the value of the sampled data SD is assumed to have a value of "150," the internal lottery data SD represent a win for a BB prize.

[0131] When the internal lottery operation has been completed, the CPU 31 determines whether or not a win has been determined for a BB prize, on the basis of the internal lottery data ISD (step S25). Specifically, if the first bit of the internal lottery data IDS assumes a value of "1," the CPU 31 determines that a win has been determined for a BB prize. In contrast, if the first bit assumes a value of "0," the CPU 31 determines that a win is not determined for the BB prize.

[0132] When a result of determination made in step S25 is "YES," the CPU 31 starts masking operation (step S26). During the masking operation, the CPU 31 makes the voltage signals 21a, 22a, and 23a active. As a result, the left reel liquid-crystal panel 21, the center reel liquid-crystal panel 22, and the right reel liquid crystal panel 23 become translucent. For instance, when the panel display section D before masking operation is presumed to assume a display state shown in FIG. 11, the panel display section D after