

third display parts are arranged in line, the reel mounting plate may be rotated together with the first to third display plates. In this case, the reel mounting plate may rotate in the same direction as the first to third display plates as well as in the opposite direction. In addition, the sub reel may rotate together with the reel mounting plate. The present invention is not limited to the embodiment in which the reel mounting plate is stopped when the sub reel reaches the position behind the blank symbol. For example, the sub reel may be rotated in the opposite direction to the position behind the blank symbol once after passing the blank symbol.

[0075] The blank symbol of the sub reel is displayed at the start of the game in the above embodiment. However, any symbols of the sub reel may be displayed initially. When the blank symbols of the first to third display parts stop on the same winning line, whether to rotate the reel mounting plate or the sub reel may be determined by lottery. It is not necessary to stop the sub reel at the position behind the blank symbols of the first to third display parts on the same winning line.

[0076] Instead of the sub reel, it is possible to use other display device, such as a liquid crystal display device or a display device of dot matrix style or 7 segments style, to display the symbols and the quasi-movement of the symbols. It is also possible to change the number and position of the sub reel. For example, plural sub reels may be mounted to the reel mounting plate at predetermined intervals or at random intervals. Plural sub reels having different symbols provide various winning types.

[0077] Although the sub reel is overlapped with the first to third display parts in the above embodiment, the sub reel may be overlapped with only one of the display parts. FIG. 18 shows an example of the sub reel disposed behind the second display part. In this case, a reel mounting plate 143 begins the rotation after first to third display parts 140a, 141a and 142a stop rotating. When the sub reel 145 reaches the predetermined position behind a blank symbol 144a of a second display part 141a, the sub reel 145 rotates to display symbols in motion and stops rotation. Accordingly, the player may expect the chance to win due to the rotation of the sub reel 145 even after losing the game in the main display means.

[0078] The display plate may be partially opaque in the area that overlaps the display part of other display plates. In that case, the reel mounting plate is rotated after the display plates are stopped. When the sub reel is stopped in an area where the blank symbol of one of the display plates is overlapped with the transparent areas of the other two display plates, the sub reel is rotated to display symbols in motion.

[0079] It is possible to provide a composite symbol of the symbol of the sub reel and the symbol in front of the sub reel. In the following explanation, the same elements as those in the above embodiment are represented by the same reference numerals. In FIG. 19, the star symbols 150, 151 and the number symbols "1" to "10" are provided in the second display part 152a. The star symbols 150, 151 to represent the loss are disposed respectively in transparent parts 153 and 154. When the star symbol 150 and the blank symbols 156, 157 of the first and third display parts 21a, 23a are arranged on one of the winning lines, the reel mounting plate 24 is rotated to move the sub reel 25 behind the blank

symbols 156 and 157 and the star symbol 150. The sub reel 25 behind the star symbol 150 starts rotating.

[0080] For instance, a symbol 160 of the sub reel 25 is displayed behind the star symbol 150, as shown in FIG. 20. In that case, the symbol 160 is overlapped with the star symbol 150 to form a composite symbol 161, so that more dividend coins than other wins are dispensed. It is possible to change the number and the kinds of the composite symbols. In addition, though the star symbols 150 and 151 are provided in transparent parts 153 and 154 in the above embodiment, only the part inside the star symbols 150, 151 may be transparent and the parts outside the star symbols 150, 151 may be opaque. In that case, the symbol of the sub reel is observable through the transparent part inside one of the star symbols 150, 151.

[0081] The star symbol 150 is not necessarily stopped on the same line as the blank symbols of the first and third display. It is possible to rotate the sub reel when the star symbol is arranged with other symbols (number symbol, for instance) than the blank symbol. Furthermore, it is also possible to provide three sub reels corresponding to the first to third display parts, and to judge the win or loss based on the symbols on three sub reels.

[0082] In the above embodiment, the reel mounting plate (rotator), to which a sub reel (sub display means) is mounted, is disposed behind and concentrically with the first to third. Instead, plural reel mounting plates may be provided. In the following explanation, the same elements as those in the above embodiment are represented by the same reference numerals. As shown in FIG. 21, the sub reel 25 is mounted on a transparent reel mounting plate 165. Behind the reel mounting plate 165, a sub reel 166 is mounted on a reel mounting plate 167. The reel mounting plate 167 is attached to a rotary shaft 168 by a flange 169. The reel mounting plates 165, 167 are concentric with each other. The reel mounting plates 165 and 167 are separately rotatable. Thus, the sub reels 25, 166 may be stopped at different positions to perform various display patterns.

[0083] Though the symbol display device is used to execute a sub game after the win in the main game (the slot game) in the above embodiment, the symbol display device of the present invention may be also applicable to a device to determine the amount of dividend coins in the main game or to execute the main game.

[0084] The symbol display device of the present invention may be mounted in the other game machine such as a Pachinko game machine. As shown in FIG. 22, a symbol display device 173 of the present invention is mounted behind a display window 172 formed in the center of a game board 171 in a Pachinko game machine 170. The first to third display plates start rotating under a specific condition such as that, for example, a ball enters a particular hole among winning holes 174 on the game board 171. The player wins a jackpot if the same symbols on the first third display plates are arranged in line. When the blank symbols on the first to third display plates stop in line, the reel mounting plate starts rotating to move the sub reel to behind the blank symbols. Then, the sub reel starts rotating and stops to display the symbol. The player wins a jackpot if the winning symbol of the sub reel is displayed. In the jackpot, an attacker 176 repeats opening and closing a predetermined times, and the player may win a number of premium balls if a ball enters