

SUMMARY OF THE INVENTION

[0027] Therefore, an object of the present invention is to provide a thin disk player by reducing the thickness of a base unit and a display unit constituting a disk player.

[0028] To achieve these and other advantages and in accordance with the purpose of the present invention, as embodied and broadly described herein, there is provided a disk player including: display player includes: a base unit, to which a display unit is rotatably connected, having an upper housing and a lower housing, a board installed between the upper housing and the lower housing, a display LCD installed on an upper surface of the board for displaying operational state through the upper housing, and a board connection unit installed on and connected to the board, and connected to one side of the display LCD, for transferring signal to the display LCD.

[0029] The foregoing and other objects, features, aspects and advantages of the present invention will become more apparent from the following detailed description of the present invention when taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0030] The accompanying drawings, which are included to provide a further understanding of the invention and are incorporated in and constitute a part of this specification, illustrate embodiments of the invention and together with the description serve to explain the principles of the invention.

[0031] In the drawings:

[0032] FIG. 1 is a perspective view showing a state that a display unit of a disk player is opened in accordance with the present invention;

[0033] FIG. 2 is a rear perspective view showing a state that the display unit of the display player of FIG. 1 is closed;

[0034] FIG. 3 is an exploded perspective view showing an internal construction of a base unit of the disk player of FIG. 1;

[0035] FIG. 4 is an exploded perspective view showing an internal construction of a display unit of the disk player of FIG. 1;

[0036] FIG. 5 is a perspective view showing a state that a disk cover of the disk player of FIG. 1 is completely opened;

[0037] FIG. 6 is a perspective view showing a state that the disk cover of the disk player of FIG. 1 is unlocked;

[0038] FIG. 7 is an exploded perspective view showing the construction that an LED holder of the disk player of FIG. 1 is installed;

[0039] FIG. 8 is a sectional view showing the construction that the LED holder of the disk player of FIG. 1 is installed;

[0040] FIG. 9 is a sectional view showing a relation between a hooker and a hooking spring in a state that the disk cover of the disk player of FIG. 1 is locked;

[0041] FIG. 10 is a sectional view showing a state that the hooker is hooked in the hooking spring in a state that the disk cover of the disk player of FIG. 1 is unlocked;

[0042] FIG. 11 is an exploded perspective view showing the construction of a locking unit of the disk player of FIG. 1;

[0043] FIG. 12 is an exploded perspective view showing a converting lever and its peripheral construction of the disk player of FIG. 1;

[0044] FIG. 13 is a sectional view showing the converting lever and its peripheral construction of the disk player of FIG. 1;

[0045] FIG. 14 is a sectional view showing a display LCD and its peripheral construction of the disk player of FIG. 1;

[0046] FIGS. 15A and 15B are perspective views showing a vibration damper of the disk player of FIG. 1;

[0047] FIG. 16A is a sectional view showing a state that the vibration damper of the disk player of FIG. 1 is installed;

[0048] FIG. 16B is a rear view showing a mounting guide of an upper housing of the base unit of FIG. 1;

[0049] FIG. 16C is a plan view showing a vibration damper support of a lower housing of the base unit of the disk player of FIG. 1;

[0050] FIG. 17 is a plan view showing a bottom of the lower housing of the disk player of FIG. 1;

[0051] FIG. 18 is an exploded perspective view showing the construction that a speaker of the disk player of FIG. 1 is mounted;

[0052] FIG. 19 is an exploded perspective showing a locking hook and its peripheral construction of the disk player of FIG. 1;

[0053] FIG. 20 is an exploded perspective view showing the construction of the locking hook of the disk player of FIG. 1;

[0054] FIG. 21 is a sectional view showing an installation of the locking hook of the disk player of FIG. 1;

[0055] FIG. 22 is a view showing an operational state that the locking hook of the disk player of FIG. 1 is operated;

[0056] FIG. 23 is an exploded perspective view showing the construction of a hinge assembly of the disk player of FIG. 1;

[0057] FIG. 24 is a perspective view showing the construction of the hinge assembly in a state that a cover of the disk player of FIG. 1 is removed; and

[0058] FIG. 25 is a perspective view showing the construction of a major part of the hinge assembly of the disk player of FIG. 1.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0059] Reference will now be made in detail to the preferred embodiments of the present invention, examples of which are illustrated in the accompanying drawings.

[0060] First, as shown in FIGS. 1 to 3, a disk player includes a base unit 100.

[0061] The base unit has a flat rectangular box shape and includes a lower housing 110 and an upper housing 120.