

#### (12) United States Design Patent (10) Patent No.: US D601,584 S Sawai et al. (45) Date of Patent: \*\* Oct. 6, 2009

#### (54) **ROBOTOMORPHIC AUDIO PLAYER**

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- (\*\*) Term: 14 Years

| D413,889  | S   | 9/1999  | Nakano            |
|-----------|-----|---------|-------------------|
| D429,717  | S   | 8/2000  | Kizawa            |
| D430,142  | S * | 8/2000  | Kuo et al D14/216 |
| D430,852  | S * | 9/2000  | Miyashita D13/158 |
| D432,116  | S   | 10/2000 | Ichikawa et al.   |
| D446,511  | S   | 8/2001  | Kanno et al.      |
| 6,381,515 | B1  | 4/2002  | Inoue et al.      |
| D463,400  | S   | 9/2002  | Narita            |
| D465,468  | S   | 11/2002 | Kanno             |
| D467,574  | S   | 12/2002 | Suzuki et al.     |
| D471,179  | S   | 3/2003  | Suzuki et al.     |
| D472,543  | S   | 4/2003  | Shintani          |
| D476,310  | S   | 6/2003  | Hisatsune         |
| 6,623,072 | B1  | 9/2003  | Mellace           |
| D481,702  | S   | 11/2003 | Takagi            |
| 6,773,344 | B1  | 8/2004  | Gabai et al.      |
| 6,778,073 | B2  | 8/2004  | Lutter et al.     |
| D512,406  | S   | 12/2005 | Shimizu           |
| D518,065  | S   | 3/2006  | Kobayashi         |
| D530,306  | S   | 10/2006 | Wang et al.       |
| D533,185  | S   | 12/2006 | Ishida et al.     |
| D541,260  | S   | 4/2007  | Christianson      |
| 7,207,860 | B2  | 4/2007  | Hornsby et al.    |
| D543,994  | S   | 6/2007  | Kurihara          |
| D549,239  | S   | 8/2007  | Chen              |
| D555,168  |     | 11/2007 | Lin               |
| 7,338,341 | B2  | 3/2008  | Hoeting et al.    |
|           |     |         |                   |

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#### **Related U.S. Application Data**

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| (30)     | Foreign Application Priority Data       |              |  |  |  |  |
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| Ap       | r. 27, 2006 (JP) I                      |              |  |  |  |  |
| _        |   |              |  |  |  |  |
| (51)     | LOC (9) Cl.                             | 14-03        |  |  |  |  |
| (52)     | U.S. Cl.                                | D14/496      |  |  |  |  |
| (58)     | Field of Classification Search D14/496, |              |  |  |  |  |
| •        | D14/401 405 474 400 017 107 100 100     |              |  |  |  |  |

#### \* cited by examiner

(57)



D14/401, 435, 474, 483, 217, 137, 138, 160, D14/168; 345/156, 169, 173–179, 905; 715/727–729, 864; 710/1, 5, 8; 713/1, 600; 455/11, 1.7, 73, 344–347, 93, 95; 370/342–344; 369/1, 2, 6, 12; 463/43–47; 273/148 B See application file for complete search history.

#### (56) **References Cited**

#### U.S. PATENT DOCUMENTS

| 2,911,613 A | * | 11/1959 | White et al 439/660 |
|-------------|---|---------|---------------------|
| 5,456,626 A | * | 10/1995 | Ming-Kang 446/397   |
| D393,642 S  |   | 4/1998  | Yuyama              |

#### CLAIM

The ornamental design for a robotomorphic audio player, as shown and described.

#### DESCRIPTION

FIG. **1** is a perspective view of a first embodiment of a robotomorphic audio player showing our new design, wherein right and left ring portions, and right and left side cover portions thereof are rotatable relatively with respect to one another; FIG. **2** is a front elevational view thereof;

FIG. **3** is a rear elevational view thereof;



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FIG. 4 is a right side elevational view thereof, a left side elevational view thereof being the same image as the right side elevational view;

FIG. **5** is a top plan view thereof;

FIG. 6 is a bottom plan view thereof;

FIG. 7 is a top plan view thereof, wherein the right side cover portion which can be opened and closed is in a first open position;

FIG. 8 is a front elevational view thereof;

FIG. 9 is a front elevational view thereof, wherein the right

FIG. 15 is a rear elevational view thereof;

FIG. 16 is a right side elevational view thereof, a left side elevational view thereof being the same as the right side elevational view;

FIG. 17 is a top plan view thereof;

FIG. **18** is a bottom plan view thereof;

FIG. 19 is a top plan view thereof, wherein the right side cover portion which can be opened and closed, is in a first open position;

FIG. 20 is a front elevational view thereof; and

FIG. 21 is a front elevational view thereof, wherein the right side cover portion and the left side cover portion which can be opened and closed are in the respective first open positions;

side cover portion and the left side cover portion which can be opened and closed, are in the respective first open positions;

FIG. 10 is a right side elevational view thereof, a left side elevational view thereof being the same as the right side elevational view, wherein the right side cover portion is in the first open position;

FIG. 11 is a right side elevational view thereof, wherein the right side cover portion is in a second open position where the right side cover portion is relatively rotated with respect to the right ring portion;

FIG. 12 is a right side elevational view thereof, wherein the right side cover portion is in a third open position where the right side cover portion is relatively rotated with respect to the right ring portion;

FIG. 13 is a perspective view of a second embodiment of a robotomorphic audio player showing our new design, wherein right and left ring portions, and right and left side cover portions thereof are rotatable relatively with respect to one another;

FIG. 14 is a front elevational view thereof;

FIG. 22 is a right side elevational view thereof, a left side elevational view thereof being the same as the right side elevational view, wherein the right side cover portion is in the first open position;

FIG. 23 is a right side elevational view thereof, wherein the right side cover portion is in a second open position where the right side cover portion is rotated relatively with respect to the right ring portion; and,

FIG. 24 is a right side elevational view thereof, wherein the right side cover portion is in a third open position where the right side cover portion is rotated relatively with respect to the right ring portion.

The broken lines, which define the bounds of the claimed design, form no part thereof. The broken lines environmental are for illustrative purpose only and form no part of claimed design.

#### 1 Claim, 24 Drawing Sheets

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