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**Lee et al.**

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(54) **DRY CONTACT SWITCH FOR HOME ENERGY MANAGEMENT SYSTEM**

(75) Inventors: **Sang Yoon Lee**, Gyeonggi-do (KR); **In Hyeuk Choi**, Seoul (KR); **Chin Soo Hyon**, Seoul (KR); **Sang Moon Jeong**, Gyeonggi-do (KR); **Hyun Jin Lim**, Seoul (KR)

(73) Assignee: **LG Electronics Inc.**, Seoul (KR)

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(51) **LOC (10) Cl.** ..... **03-03**

(52) **U.S. Cl.**  
USPC ..... **D13/158**; D13/168

(58) **Field of Classification Search**  
USPC ..... D13/158, 159, 168, 172, 176, 177, 184;  
D10/46; D14/125, 142, 240, 365;  
D9/432; D3/294; 165/209; 174/50, 66;  
200/293, 80 B; 220/3.2, 3.3, 3.8;  
331/151, 154, 205; 340/500, 644, 3.22,  
340/3.8, 12.19, 238; 361/600, 601, 622,  
361/679.01; 700/17, 65, 83, 276

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D255,030 S \* 5/1980 Holce et al. .... D13/158  
D305,881 S \* 2/1990 Bergeron ..... D13/158  
D363,722 S \* 10/1995 Aldridge et al. .... D14/242  
D408,823 S \* 4/1999 Kirby ..... D14/240  
D483,340 S \* 12/2003 Deguchi et al. .... D13/184

7,038,301 B2 \* 5/2006 Seki et al. .... 257/621  
D531,066 S \* 10/2006 Watabe ..... D10/46  
D556,148 S \* 11/2007 Champness ..... D13/158  
D584,694 S \* 1/2009 Greitzke ..... D13/168  
7,498,538 B1 \* 3/2009 Tittle ..... 200/536  
D596,626 S \* 7/2009 Andre et al. .... D14/240  
D610,097 S \* 2/2010 Gandini ..... D13/171  
D626,099 S \* 10/2010 Huang ..... D14/125  
D639,752 S \* 6/2011 Li et al. .... D13/168  
D644,222 S \* 8/2011 Woo et al. .... D14/365  
D647,065 S \* 10/2011 Charleux ..... D13/168  
D658,598 S \* 5/2012 Ling et al. .... D13/177  
8,519,566 B2 \* 8/2013 Recker et al. .... 307/64  
D695,727 S \* 12/2013 Shimizu ..... D14/240  
D705,201 S \* 5/2014 Isaacs et al. .... D14/240  
2004/0121510 A1 \* 6/2004 Seki et al. .... 438/100  
2006/0208913 A1 \* 9/2006 Christoffersen et al. .... 340/612

**OTHER PUBLICATIONS**

Home Motion by Somfy: Lighting Indoors RTS, Operating and Installation Guide, 2008, 28 pages.\*

\* cited by examiner

*Primary Examiner* — Selina Sikder

(74) *Attorney, Agent, or Firm* — Morgan, Lewis & Bockius LLP

(57) **CLAIM**

We claim the ornamental design for a dry contact switch for home energy management system, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a dry contact switch for home energy management system showing our new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a rear elevation view thereof;  
FIG. 4 is a left-side elevation view thereof;  
FIG. 5 is a right-side elevation view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.

**1 Claim, 4 Drawing Sheets**

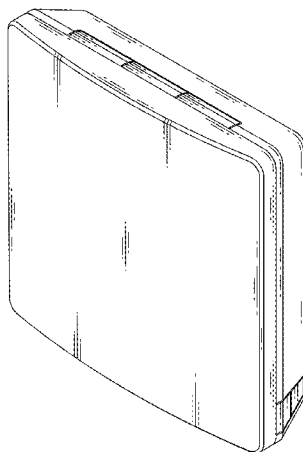


FIG. 1

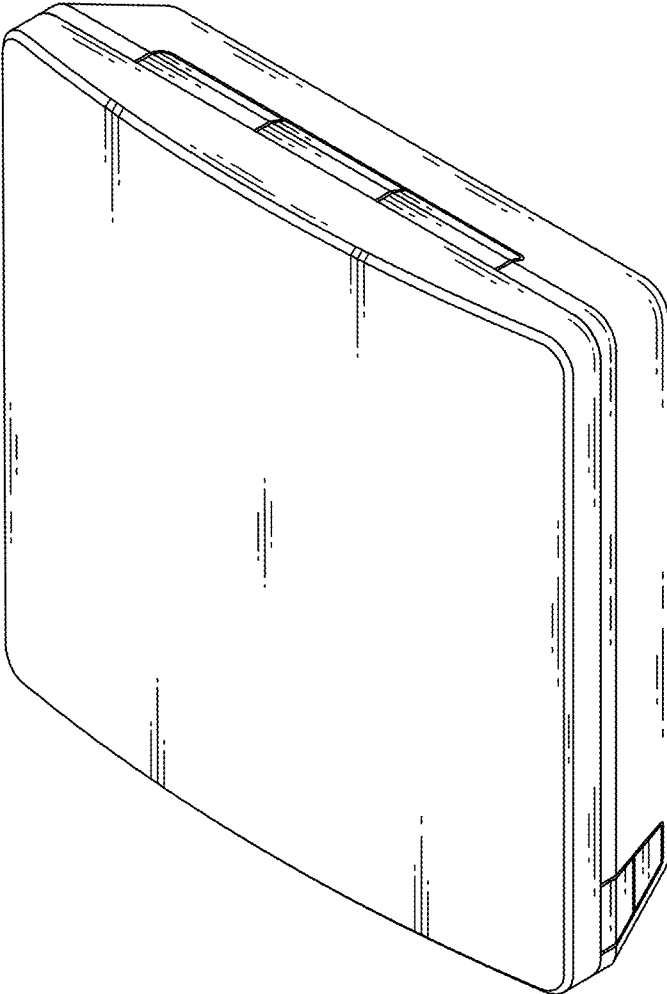


FIG. 2

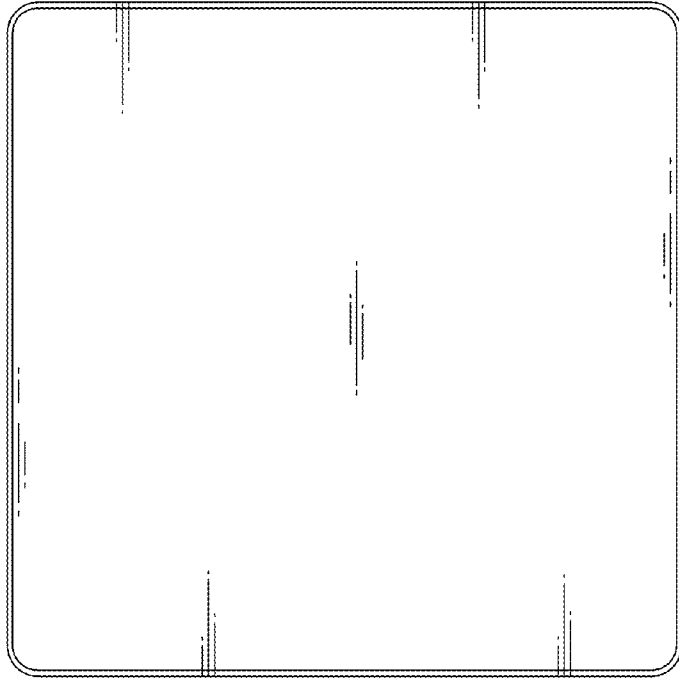


FIG. 3

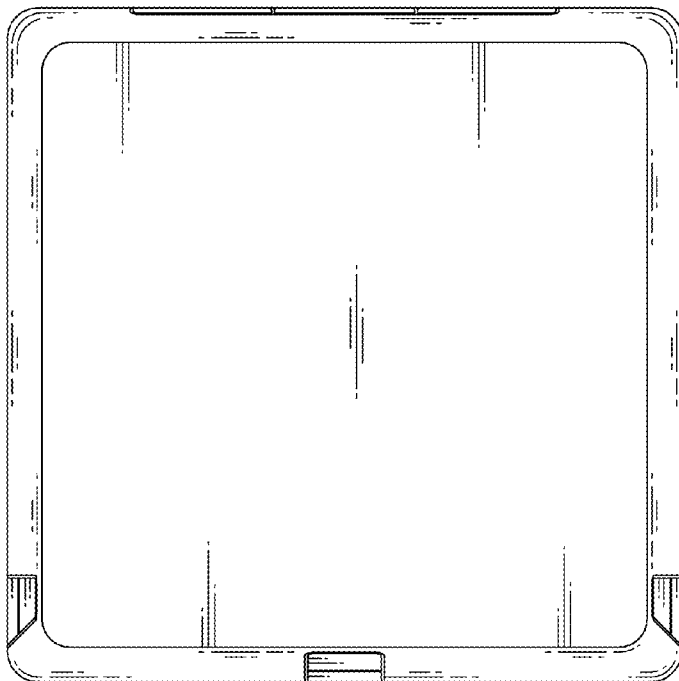


FIG. 4

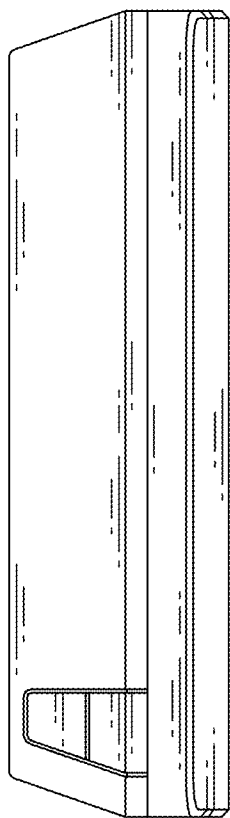


FIG. 5

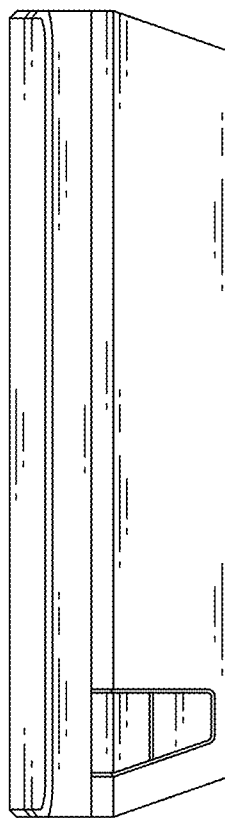


FIG.6

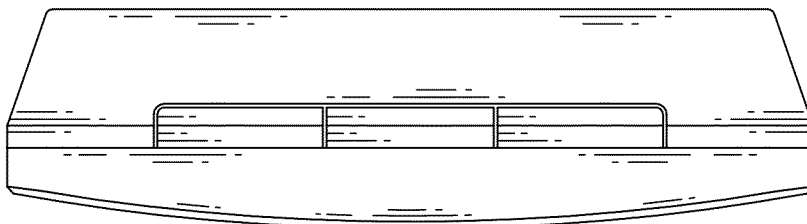


FIG.7

