

Title (en)

Case module having auto-folder function and control method thereof

Title (de)

Gehäusemodul mit automatischer Falzenfunktion und zugehöriges Steuerungsverfahren

Title (fr)

Module d'étui avec fonction automatique de pliage et sa méthode de commande

Publication

EP 1785364 A3 20070530 (EN)

Application

EP 06253973 A 20060728

Priority

KR 20050107872 A 20051111

Abstract (en)

[origin: EP1785364A2] A case module and a method for controlling the cover rotation of the case module. The case module comprises a case, the case comprising a motor (200), the motor (200) enabling a cover (210) to rotate, said cover opening when a forward rotation switch (230) is turned on, said cover (210) closing when a reverse rotation switch (240) is turned on; a buffer (fig.6,660), the buffer generating a forward rotation signal or a reverse rotation signal, the forward rotation signal and the reverse rotation signal corresponding to the turn-on state of said forward rotation switch (230) or said reverse rotation switch (240), respectively; and a driving unit (fig.6,650a,650b), the driving unit (650a,650b) rotating said motor (200), said motor (200) using a signal from said buffer (660) as an input. The case module and the controlling method thereof control the forward rotation and the reverse rotation of the DC motor (200) and have the cover (210) open and close according to the rotation of the DC motor (200) by use of the driving circuit such that the inconvenience of having to manually open and close the cover (210) is eliminated.

IPC 8 full level

B65D 43/26 (2006.01); **A45C 11/00** (2006.01); **A45C 13/02** (2006.01); **A45D 33/00** (2006.01); **A45D 40/22** (2006.01); **B65D 25/02** (2006.01); **B65F 1/16** (2006.01); **H02P 7/285** (2016.01)

CPC (source: EP KR US)

A45D 33/16 (2013.01 - KR); **A45D 33/20** (2013.01 - EP KR US); **A45D 40/221** (2013.01 - EP KR US); **A45D 33/16** (2013.01 - EP US); **A45D 2040/225** (2013.01 - EP KR US)

Citation (search report)

- [YA] US 5779032 A 19980714 - IIMURA TAICHI [JP], et al
- [Y] US 4283098 A 19810811 - SUN LIANG-HUNG
- [A] GB 2356894 A 20010606 - BELLING APPLIANCES LTD [GB]

Cited by

CN112551001A; EP3659465A1; TWI450842B

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1785364 A2 20070516; **EP 1785364 A3 20070530**; CN 1961776 A 20070516; JP 2007130441 A 20070531; KR 100615980 B1 20060828; TW 200719671 A 20070516; US 2007108093 A1 20070517

DOCDB simple family (application)

EP 06253973 A 20060728; CN 200610091112 A 20060630; JP 2006203772 A 20060726; KR 20050107872 A 20051111; TW 95122558 A 20060622; US 50981906 A 20060825