

Title (en)

Method for opening elements installed in buildings and independent control unit for opening and closing said elements suited to implement said opening method.

Title (de)

Verfahren und Antriebseinheit zur Steuerung von Schliesselementen innerhalb eines Gebäudes

Title (fr)

Procédé et dispositif d'entraînement pour des éléments de fermeture des bâtiments

Publication

EP 2003278 A1 20081217 (EN)

Application

EP 08157979 A 20080610

Priority

IT VI20070171 A 20070611

Abstract (en)

The invention concerns a method for opening the cover (2) of an opening element (1) installed in buildings, comprising: a base (3) that delimits an opening (A) made in a building (B); a cover (2) hinged to the base (3); one electric motor (4) for opening and closing the cover (2); manual means (5; 5a) for controlling the electric motor (4); automatic means (6) for controlling the electric motor (4), comprising a first sensor (6') for detecting the presence of rain or humidity, provided with electric heating means (7), and a second sensor (6'') for detecting the presence of wind; an independent unit (8) for controlling the cover (2), said method comprising the following operations: verifying whether the sensors (6', 6'') are active or not; if both sensors (6', 6'') are inactive, starting the electric motor (4) to open the cover (2) completely; if the first sensor (6') is active and the second sensor (6'') is inactive, starting the electric motor (4) to lift the cover (2) to a predefined height (X); stopping the motor (4); powering the electric heating means (7) of the first sensor (6'); opening the cover (2) completely if the first sensor (6') is inactive.

IPC 8 full level

E05F 15/20 (2006.01)

CPC (source: EP)

E05F 15/71 (2015.01); **E05Y 2400/614** (2013.01); **E05Y 2400/628** (2013.01)

Citation (applicant)

- DE 202006009694 U1 20060914 - CHEN WEI YING [TW]
- DE 2363978 A1 19750703 - ESSER KG KLAUS

Citation (search report)

- [XY] DE 202006009694 U1 20060914 - CHEN WEI YING [TW]
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- [Y] WO 9401649 A1 19940120 - RASMUSSEN KANN IND AS [DK], et al
- [Y] WO 03042480 A2 20030522 - VKR HOLDING AS [DK], et al
- [Y] US 2007012100 A1 20070118 - MOURIDSEN ERIK B [DK]

Cited by

CN102758575A; ITRM20090051A1; GB2486667A

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