

Title (en)
AUTOMATIC OPENING/CLOSING DEVICE FOR UMBRELLA

Title (de)
VORRICHTUNG ZUM SELBSTTÄTIGEN ÖFFNEN/SCHLIESSEN VON SCHIRMEN

Title (fr)
DISPOSITIF POUR L'OUVERTURE/FERMETURE AUTOMATIQUE DE PARASOLS

Publication
EP 3804555 A1 20210414 (EN)

Application
EP 20200438 A 20201007

Priority
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Abstract (en)
The present invention relates to an automatic opening/closing device for umbrella, of the type that provides an electric motor (9), through which it acts on a spool system (25), which provides a wire (4) connected to the cover frame, which determines its opening and closing. Said automatic opening/closing device provides that in the spool (25) a device (40) is housed, advantageously consisting of a magnet, the position of which is detectable through a first sensor (26), capable of accurately determining the number of revolutions performed by such spool (25).

IPC 8 full level
A45B 25/14 (2006.01)

CPC (source: EP)
A45B 25/143 (2013.01)

Citation (applicant)

- IT M099000161 A
- US 2005072451 A1 20050407 - VIVIAN CHARLIE [US], et al
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- US 2017332749 A1 20171123 - PAN JIANGBO [CN], et al
- US 2009223541 A1 20090910 - GARDNER MICHAEL ROBERT [US], et al
- US 2005016571 A1 20050127 - WU WEIDAN [CN]
- CN 201312604 Y 20090923 - HUIZHOU HONGLI INDUSTRY CO LTD [CN]

Citation (search report)

- [A] US 2005072451 A1 20050407 - VIVIAN CHARLIE [US], et al
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- [A] CN 201312604 Y 20090923 - HUIZHOU HONGLI INDUSTRY CO LTD [CN]

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