

Title (en)  
SUNSHADE APPARATUS

Title (de)  
SONNENBLENDENVORRICHTUNG

Title (fr)  
DISPOSITIF DE PARE-SOLEIL

Publication  
**EP 3702574 A1 20200902 (EN)**

Application  
**EP 20159058 A 20200224**

Priority  
IT 201900002755 A 20190226

Abstract (en)  
A sunshade apparatus (1) comprises: a plurality of slats (100), each tilting about a tilt axis (I); a motor (4); a lifting shaft (3), coupled to the motor (4); a tilt pulley (7) connected to the slats (100) to rotate them about the respective tilt axes (I); a spring clutch (10) surrounding the lifting shaft (3) and including a first locking end (11A) and a second locking end (12B), each movable along a respective working trajectory; a detent system (9), including a first detent (91), a second detent (92) and a third detent (93). The apparatus comprises a release element (60), movable between an activated position, where it is in contact with the first locking end (11A) of the spring clutch (10) to move it, and a deactivated position, where it is clear of the first locking end (11A).

IPC 8 full level  
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CPC (source: EP)  
**E06B 9/302** (2013.01); **E06B 9/322** (2013.01); **E06B 9/307** (2013.01); **E06B 9/308** (2013.01); **E06B 2009/3222** (2013.01)

Citation (applicant)  
• EP 2224091 A2 20100901 - GRIESSER HOLDING AG [CH]  
• WO 2016103123 A1 20160630 - LUPAK METAL S R L [IT]

Citation (search report)  
• [A] EP 1052365 A2 20001115 - HUNTER DOUGLAS IND BV [NL]  
• [A] WO 2016103101 A1 20160630 - LUPAK METAL S R L [IT]  
• [A] US 3651852 A 19720328 - NERI LOUIS  
• [A] EP 2224091 A2 20100901 - GRIESSER HOLDING AG [CH]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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**EP 3702574 A1 20200902**; **EP 3702574 B1 20230111**; ES 2939535 T3 20230424; HR P20230211 T1 20230414; IT 201900002755 A1 20200826; PL 3702574 T3 20230327; PT 3702574 T 20230303

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**EP 20159058 A 20200224**; ES 20159058 T 20200224; HR P20230211 T 20200224; IT 201900002755 A 20190226; PL 20159058 T 20200224; PT 20159058 T 20200224