

Title (en)

Device for operating a sun shade, an umbrella or the like

Title (de)

Vorrichtung zur Bedienung eines Sonnenschirms, Regenschirms oder dergleichen

Title (fr)

Dispositif pour l'entraînement d'un parasol, parapluie ou analogue

Publication

EP 1425984 A1 20040609 (EN)

Application

EP 03078796 A 20031202

Priority

BE 200200703 A 20021205

Abstract (en)

Device for operating a sun shade, an umbrella or the like, of the type which mainly consists of an upward directed support (1) and an arm (2) which is fixed to the support (1) by means of a hinge pin (28) and onto which is hinge-mounted a shade (3), whereby this shade (3) at least consists of a flange (50) onto which ribs (48) are hinge-mounted, and of a bush (35) which is connected to the aforesaid ribs (48) by means of spokes (45), characterised in that the device is provided with means for folding and unfolding the arm (2) between the folded position, whereby the arm (2) lies against or practically against the support (1), and an unfolded position whereby the arm (2) is mainly directed crosswise to the support (1); means for rotating the shade (3), when unfolding or folding the arm (2), in relation to the aforesaid arm (2); and means for opening and closing the shade (3).
<IMAGE>

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [X] US 3765434 A 19731016 - RIGGS R
- [X] US 5937882 A 19990817 - HARBAUGH KENNETH A [US]
- [A] US 5386842 A 19950207 - BECHER KLAUS [DE]
- [PX] WO 03056967 A1 20030717 - PUNZAG GALBADRACH [DE]

Cited by

NL1031122C2; WO2007054043A1

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