

Title (en)

SIMPLIFIED POWERED UMBRELLA

Title (de)

ANGETRIEBENER AUTOMATISCHER REGENSCHIRM

Title (fr)

PARAPLUIE AUTOMATIQUE SIMPLIFIE

Publication

EP 0760609 A4 19990127 (EN)

Application

EP 95920440 A 19950522

Priority

- US 9506027 W 19950522
- US 24724694 A 19940523

Abstract (en)

[origin: WO9531913A1] The invention relates to umbrellas which automatically open and close. This automatic opening and closing of the umbrella (1) is accomplished by means of the rotation of a threaded rod (63) located inside the hollow shaft (5) of the umbrella (1) in which a pin (67A) directly engaging the threaded rod (63) through a slot (31) in the shaft (5) is attached to a collar (62) which slides up and down the outside of the umbrella shaft (5). The collar (62) is attached to the struts (2) connected to the ribs (7) of the umbrella to which is attached the water repellent cloth (8). Rotation of the threaded rod (63) as by a small electric motor (27) moves the pin (67A) engaged with the threaded rod (63) which moves the collar (62) up and down the outside of the umbrella shaft (5) thereby opening and closing the umbrella. The manual disengagement of the pin (67A) from the threaded rod (63) allows the collar (62) to be manually moved up and down the shaft (5) of the umbrella.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 9531913A1

Cited by

CN103876418A; GB2457331A; GB2457331B; WO2005102097A2

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