

Title (en)

A simplified fully automatic umbrella.

Title (de)

Vereinfachter, vollautomatischer Regenschirm.

Title (fr)

Parapluie entièrement automatique.

Publication

EP 0601230 A1 19940615 (EN)

Application

EP 92120933 A 19921209

Priority

- EP 92120933 A 19921209
- AU 2846092 A 19921118
- CA 2083247 A 19921118

Abstract (en)

A fully automatic umbrella comprising a shank consisting of an inner and an outer tubes (11,12), the inner tube (11) having a middle ring (13) at upper section and an extension (14) while the outer tube (12) having a lower ring (15) at upper end; an umbrella opening spring (2) received within the extension; a cylinder (3) mounted around the extension (14) and provided with an upper ring (31) at lower end; an umbrella closing spring (4) mounted around the inner tube; a locking mechanism consisting of an upper and a lower pawls (5,6); a canopy structure (7) connected to the upper, middle and lower rings; a wire (8) interconnected between the upper pawl and the lower ring; and a handle (9) provided with an actuating member (91) for controlling the operation of opening and closing the umbrella. <IMAGE>

IPC 1-7

A45B 25/14

IPC 8 full level

A45B 25/14 (2006.01)

CPC (source: EP)

A45B 25/143 (2013.01)

Citation (search report)

- [E] DE 9213055 U1 19921210
- [AD] US 5088512 A 19920218 - CHOU LUC L [TW], et al
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