

Title (en)  
Automatic openable and closable, and in pocket-size contractible umbrella

Title (de)  
Automatisch öffnender und schliessender, auf Taschenformat verkürzbarer Schirm

Title (fr)  
Parapluie à ouverture et fermeture automatique et contractible en format de poche

Publication  
**EP 0827701 B1 20001206 (DE)**

Application  
**EP 97110703 A 19970701**

Priority  
DE 19636690 A 19960910

Abstract (en)  
[origin: US5823214A] An automatic umbrella of the collapsible pocket type includes a handle accommodating a first release mechanism (A1) for the opening operation and a second release mechanism (A2) for the closing operation, a control button (11) arranged in the umbrella handle (12) for staggered actuation of the release mechanisms (A1, A2), a telescopically shortenable umbrella stick (1) with an umbrella crown (4), a runner (5) traveling along the umbrella stick (1) and a canopy rib assembly (2) formed by canopy rib units (2 DEG ), a first spring mechanism (F1) arranged in the umbrella stick (1) for opening the umbrella by extending the umbrella stick (1), a second spring mechanism (F2) integrated in the canopy rib units (20) and tensioned during opening operation for effecting a closing of the umbrella, a tackle (S) including a rope (S') which engages the runner (5) and cooperates with the release mechanism (A2) via a rod (8) mounted slidably in the umbrella stick (1) and a first catch (9) arranged thereon and formed with a hooked end engageable on a locking member (10). The second release mechanism (A2) includes a release slider (14, 15) cooperating with the first catch (9) and slidably guided within in the stick, and a locking catch (16) slidable synchronously with the release slider (14, 15) and cooperating with the control button (11), with this slidable assembly (14, 15, 16) as a function of retraction and extension of the umbrella stick (1) moving alternately into the position ready for release relative to the first catch (9) and the control button (11) in a direction towards first catch (9), and moves away from the first catch (9) into a neutral position.

IPC 1-7  
**A45B 25/14**

IPC 8 full level  
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