

Title (en)
Automatic foldable umbrella

Title (de)
Automatisch faltbarer Schirm

Title (fr)
Parapluie pliable automatique

Publication
EP 2522243 B1 20140402 (EN)

Application
EP 12166291 A 20120501

Priority
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Abstract (en)
[origin: EP2522243A1] An automatic foldable umbrella includes a central shaft unit (30) having upper, lower and middle shafts (32, 31, 33) telescopically coupled to one another. A first force transmitting unit (80) is disposed to pull the upper shaft (32) to a stretched-out position relative to the middle shaft (33) when the middle shaft (33) is biased by a central spring (40) to move to an extended position, and to permit the upper shaft (32) to move downward to a retracted position when a rib-and-stretcher assembly (70) is collapsed. A second force transmitting unit (90) is disposed to permit movement of a runner (60) toward a top hub (50) when the upper shaft (32) is displaced to the stretched-out position, thereby rendering the folding operation convenient and effortless.

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