

Title (en)

Folding apparatus comprising a cylinder with adjustable circumference

Title (de)

Falzapparat mit umfangsverstellbarem Zylinder

Title (fr)

Dispositif de pliage comportant un cylindre à circonférence variable

Publication

**EP 1437319 B1 20070919 (DE)**

Application

**EP 04101264 A 20020928**

Priority

- DE 10148503 A 20011001
- EP 02776741 A 20020928

Abstract (en)

[origin: WO03031303A2] A folding gear comprises a cylinder mounted in a frame such as to rotate, with at least one clamp arranged on the outer surface thereof which may be positioned by means of an actuator, whereby the actuator comprises a flexible toothed shell, shaped by a non-circular section of a shaft and a hollow gear engaging with the shell, in other words a harmonic drive gear.

IPC 8 full level

**B65H 45/16** (2006.01)

CPC (source: EP US)

**B65H 45/161** (2013.01 - EP US); **B65H 45/166** (2013.01 - EP US); **Y10T 83/0519** (2015.04 - EP US); **Y10T 83/4743** (2015.04 - EP US)

Cited by

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DOCDB simple family (publication)

**WO 03031303 A2 20030417**; **WO 03031303 A3 20031106**; **WO 03031303 B1 20040610**; AT E307081 T1 20051115; AT E365696 T1 20070715; AT E373619 T1 20071015; AU 2002339332 A1 20030422; DE 10148503 A1 20030424; DE 10148503 B4 20040408; DE 10148503 C5 20080131; DE 50204626 D1 20051124; DE 50210391 D1 20070809; DE 50210935 D1 20071031; EP 1423324 A2 20040602; EP 1423324 B1 20051019; EP 1437318 A2 20040714; EP 1437318 A3 20040721; EP 1437318 B1 20070627; EP 1437319 A2 20040714; EP 1437319 A3 20040721; EP 1437319 B1 20070919; US 2005001370 A1 20050106; US 7214175 B2 20070508

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