

Title (en)  
EXPANDING-MANDREL WINDER FOR REEL

Title (de)  
SPULER MIT EXPANDIERBAREM DORN FÜR EINE ROLLE

Title (fr)  
DEVIDOIR A MANDRIN EXPANSIBLE POUR BOBINE

Publication  
**EP 2035310 A1 20090318 (FR)**

Application  
**EP 07803837 A 20070704**

Priority  
• FR 2007001131 W 20070704  
• FR 0606099 A 20060705

Abstract (en)  
[origin: WO2008003860A1] The present invention relates to a winder in which the jaws of the mandrel are expanded automatically by the weight of the reel, without introducing external energy, by means of a cheap, simple and maintenance-free concept that ensures excellent reproducible clamping of the reel. The winder (10) comprises a mandrel (20) of horizontal axis (A) whose jaws (21) are expandable by means of links (42) hinged to the end of a sliding pull rod (41) and connected to the frame (30) by a hinged connecting rod (44). The winder comprises a rocker (61) connected to the frame (30) by a fixed pivot axis (D) and to the mandrel (20) by the physical embodiment of the axis of rotation (A), the two axes (D, A) being parallel. This rocker (61) is designed to move the mandrel (20) vertically between a raised loading position and a lowered use position under the weight of a reel (1) and is designed to bring about, simultaneously, sliding of the pull rod (41), automatic expansion of the jaws (21), and automatic clamping of the reel (1).

IPC 8 full level  
**B65H 49/30** (2006.01)

CPC (source: EP US)  
**B65H 49/30** (2013.01 - EP US)

Citation (search report)  
See references of WO 2008003860A1

Cited by  
AT386197B

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**WO 2008003860 A1 20080110**; AT E450467 T1 20091215; DE 602007003604 D1 20100114; EP 2035310 A1 20090318;  
EP 2035310 B1 20091202; FR 2903394 A1 20080111; FR 2903394 B1 20080919; US 2009294572 A1 20091203; US 7922114 B2 20110412

DOCDB simple family (application)  
**FR 2007001131 W 20070704**; AT 07803837 T 20070704; DE 602007003604 T 20070704; EP 07803837 A 20070704; FR 0606099 A 20060705;  
US 30705307 A 20070704