

Title (en)  
CENTRE-FEED ROLL AND PRODUCTION METHODS THEREOF

Title (de)  
ROLLE MIT INNENABZUG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
ROULEAU A DEVIDAGE CENTRAL, PROCEDES DE FABRICATION

Publication  
**EP 1636123 B1 20081015 (FR)**

Application  
**EP 03817410 A 20030612**

Priority  
FR 0301776 W 20030612

Abstract (en)  
[origin: EP2017205A1] The roll has a flexible material sheet formed by winding the sheet around a winding axis. A central unwinding section (10B) forms a protrusion along length of the axis with respect to a part of a plane of one of sides of the roll. The unwinding section has a portion belonging to an inner end of the sheet. The unwinding section is formed by folding transversely on the axis of the roll. An independent claim is also included for a roll manufacturing method.

IPC 8 full level  
**B65H 18/28** (2006.01); **B65H 19/22** (2006.01); **B65H 19/28** (2006.01)

CPC (source: EP US)  
**B65H 18/28** (2013.01 - EP US); **B65H 19/2276** (2013.01 - EP US); **B65H 19/28** (2013.01 - EP US); **B65H 2301/4148** (2013.01 - EP US); **B65H 2301/41485** (2013.01 - EP US); **B65H 2513/30** (2013.01 - EP US); **B65H 2515/60** (2013.01 - EP US); **B65H 2601/31** (2013.01 - EP US)

C-Set (source: EP US)  
**B65H 2513/30 + B65H 2220/03**

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

DOCDB simple family (publication)  
**WO 2005005295 A1 20050120**; AT E411249 T1 20081015; AU 2003255672 A1 20050128; CA 2528335 A1 20050120; CA 2528335 C 20130108; DE 60324201 D1 20081127; DK 1636123 T3 20090216; EA 007435 B1 20061027; EA 200501778 A1 20060630; EP 1636123 A1 20060322; EP 1636123 B1 20081015; EP 1636123 B2 20110713; EP 2017205 A1 20090121; EP 2017205 B1 20130814; ES 2315575 T3 20090401; ES 2315575 T5 20111201; ES 2433382 T3 20131210; PT 1636123 E 20090119; SI 1636123 T1 20090228; US 2007057103 A1 20070315; US 2010032511 A1 20100211; US 8146851 B2 20120403

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