

Title (en)
EXPANDING MANDREL

Title (de)
SPANNDORN

Title (fr)
BROCHE DE SERRAGE

Publication
EP 1320508 A1 20030625 (DE)

Application
EP 01971699 A 20010907

Priority
• DE 0103443 W 20010907
• DE 10046164 A 20000919

Abstract (en)
[origin: US6786443B2] An expanding mandrel is useable for rotatably mounting a strip of material that is wound around a sleeve or core. The expanding mandrel includes an ejecting device that is useable to strip the sleeve or core from the mandrel. The ejecting device includes at least a first part, which is rotatable about an axis together with the sleeve or core, and a non-rotatably mounted second part. The first part can strip the sleeve or core from the mandrel by actuation of the second part. That second part is a piston which can be driven by a fluid under pressure.

IPC 1-7
B65H 19/12

IPC 8 full level
B65H 19/30 (2006.01); **B65H 19/12** (2006.01); **B65H 75/24** (2006.01)

CPC (source: EP US)
B65H 19/12 (2013.01 - EP US); **B65H 75/243** (2013.01 - EP US); **B65H 2301/41856** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0224563 A1 20020328; AT E272554 T1 20040815; AU 9162801 A 20020402; DE 10046164 A1 20020404; DE 10046164 B4 20040722; DE 50103145 D1 20040909; EP 1320508 A1 20030625; EP 1320508 B1 20040804; JP 2004509040 A 20040325; JP 3662240 B2 20050622; US 2004094655 A1 20040520; US 6786443 B2 20040907

DOCDB simple family (application)
DE 0103443 W 20010907; AT 01971699 T 20010907; AU 9162801 A 20010907; DE 10046164 A 20000919; DE 50103145 T 20010907; EP 01971699 A 20010907; JP 2002528587 A 20010907; US 36296903 A 20030306