

Title (en)  
LIFTING APPARATUS

Title (de)  
HUBVORRICHTUNG

Title (fr)  
DISPOSITIF DE LEVAGE

Publication  
**EP 2185465 B1 20120704 (DE)**

Application  
**EP 08828809 A 20080826**

Priority  
• DE 2008001402 W 20080826  
• DE 102007041052 A 20070829

Abstract (en)  
[origin: WO2009026899A2] The invention relates to a lifting apparatus with at least one telescopic tube or cylinder, said lifting apparatus comprising a first and a second annular band, wherein means are provided in order to arrange the first band spirally and transversely orthogonally about a centre axis and in order to arrange the second band coiled about itself, wherein the coils of the second band lie transversely parallel to the centre axis, and in order to transfer the first band into a retracted, stacked position and the second band into a retracted, spiral position. The invention furthermore relates to the use of such a lifting device. In order to increase the operational reliability of lifting devices of this type, it is proposed within the scope of the invention that the lifting apparatus has means for preventing falling off should the telescopic tube or cylinder fail.

IPC 8 full level  
**B66F 7/10** (2006.01); **F16G 13/18** (2006.01)

CPC (source: EP)  
**B66F 7/10** (2013.01)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102007041052 A1 20090305**; CN 101795958 A 20100804; CN 101795958 B 20130529; EP 2185465 A2 20100519; EP 2185465 B1 20120704; ES 2391531 T3 20121127; WO 2009026899 A2 20090305; WO 2009026899 A3 20090730

DOCDB simple family (application)  
**DE 102007041052 A 20070829**; CN 200880104565 A 20080826; DE 2008001402 W 20080826; EP 08828809 A 20080826; ES 08828809 T 20080826