

Title (en)  
ROTARY DRAW BAR

Title (de)  
DREHANHÄNGEKUPPLUNG

Title (fr)  
BARRE DE TRACTION ROTATIVE

Publication  
**EP 2510825 A4 20130911 (EN)**

Application  
**EP 10829513 A 20101108**

Priority  
• CN 200920181302 U 20091110  
• CN 2010078507 W 20101108

Abstract (en)  
[origin: EP2510825A1] A rotary draw bar used for drawing a case comprises a fixed rod (1), a fixed base (21, 22), a rotating shaft (3) and a telescopic rod (41, 42). One end of the fixed rod (1) is connected with the fixed base (21, 22). The rotating shaft (3) is arranged in an internal cavity of the fixed base (21, 22) and rotatably matches with the internal cavity. The telescopic rod (41, 42) is a hollow rod, of which a front end is in linking connection with the rotating shaft (3). A jumping bead device is arranged in a central hole at the front end of the telescopic rod (41, 42), and comprises a support (411), a push rod (412), a spring (413) and jumping beads (414). The support (411) is arranged in the central hole. The push rod (412) is arranged on the support (411) and slidably matches with the support (411). The spring (413) is arranged inside the support (411). One end of the jumping bead (414) is connected with the spring (413), and another end of the jumping bead (414) is exposed out of the telescopic rod (41, 42). The fixed base (21, 22) comprises an inclined surface for the jumping bead (414) to slidably contact and a location hole for the jumping bead (414) to be embedded in.

IPC 8 full level  
**A45C 13/26** (2006.01); **B25G 1/06** (2006.01)

CPC (source: EP)  
**A45C 13/26** (2013.01); **A45C 13/262** (2013.01); **A45C 2013/265** (2013.01); **A45C 2013/267** (2013.01)

Citation (search report)  
• [A] US 5379486 A 19950110 - WANG CHIEN-SHAN [TW]  
• [A] US 2001040080 A1 20011115 - KUO CHUNG HSIEN [TW]  
• [A] US 6079527 A 20000627 - KUO CHUNG HSIEN [TW]  
• [A] US 6409207 B1 20020625 - KUO CHUNG-HSIEN [TW]  
• [A] US 6216317 B1 20010417 - CHEN TZU-CHA [TW]  
• [A] US 5901822 A 19990511 - TU A-SHIH [TW]  
• [A] US 5689854 A 19971125 - WANG JING SHENG [TW]  
• [A] US 2006032718 A1 20060216 - LIANG JOSEPH [TW]  
• See references of WO 2011057549A1

Cited by  
CN111772311A

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

DOCDB simple family (publication)  
**EP 2510825 A1 20121017**; **EP 2510825 A4 20130911**; **EP 2510825 B1 20140716**; **EP 2510825 B8 20141126**; CN 201550780 U 20100818;  
WO 2011057549 A1 20110519

DOCDB simple family (application)  
**EP 10829513 A 20101108**; CN 200920181302 U 20091110; CN 2010078507 W 20101108