

Title (en)  
CARTRIDGE CORE

Title (de)  
MECHANISMUS

Title (fr)  
NOYAU DE CARTOUCHE

Publication  
**EP 3406161 A4 20190828 (EN)**

Application  
**EP 17859360 A 20171128**

Priority  
• CN 201710230472 A 20170410  
• CN 2017113353 W 20171128

Abstract (en)  
[origin: EP3406161A1] Disclosed is a mechanism. The mechanism includes an inner-body and a spiral; limiting steps for limiting an axial movement of the spiral are provided on an outer wall of the inner-body; the spiral is provided with an annular elastic telescopic portion; and the elastic telescopic portion is provided with a plurality of grooved holes arranged along a circumferential direction of the elastic telescopic portion, thereby forming an oblique elastic deformation strip between adjacent grooved holes. According to the mechanism, by providing holes on a sidewall of the spiral to form the elastic telescopic portion, the mould opening is relatively easy and the manufacturing cost is low; the elastic deformation strip is provided obliquely, so to achieve the same telescopic amount of the spiral, the elastic deformation strip is required to have a relatively small deformation compared with the existing structure. Therefore, an irreversible deformation is not easily occurred.

IPC 8 full level  
**A45D 40/00** (2006.01); **A45D 40/06** (2006.01)

CPC (source: CN EP)  
**A45D 40/00** (2013.01 - CN); **A45D 40/04** (2013.01 - CN); **A45D 40/06** (2013.01 - EP)

Citation (search report)  
• [X1] US 6036387 A 20000314 - GUERET JEAN-LOUIS H [FR]  
• See references of WO 2018188348A1

Cited by  
CN111480991A

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

Designated extension state (EPC)  
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**EP 3406161 A1 20181128; EP 3406161 A4 20190828; EP 3406161 B1 20210519**; CN 107232735 A 20171010; CN 107232735 B 20230929; WO 2018188348 A1 20181018

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