

Title (en)  
SPRING UNIT, SPRING ACCUMULATOR, AND ACTUATOR

Title (de)  
FEDERAGGREGAT, FEDERSPEICHER UND AKTOR

Title (fr)  
GROUPE DE RESSORTS, ACCUMULATEUR À RESSORTS ET ACTIONNEUR

Publication  
**EP 3334954 A1 20180620 (DE)**

Application  
**EP 16777640 A 20160928**

Priority  
• DE 102015218851 A 20150930  
• EP 2016073135 W 20160928

Abstract (en)  
[origin: WO2017055363A1] The invention relates to a spring unit, a spring accumulator, and an actuator. The spring unit comprises at least one spring element, which has a part that can be deflected against a spring force, and a compensation device, which is designed to counteract the spring force more strongly in the case of a more greatly deflected part than in the case of a less greatly deflected part. The spring accumulator comprises such a spring unit. The actuator comprises such a spring unit and/or such a spring accumulator.

IPC 8 full level  
**F16F 15/067** (2006.01)

CPC (source: EP KR US)  
**F03G 1/10** (2013.01 - EP US); **F16F 15/067** (2013.01 - EP KR US); **F16F 2228/063** (2013.01 - EP); **F16F 2230/0064** (2013.01 - EP KR US)

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)  
BA ME

DOCDB simple family (publication)  
**DE 102015218851 A1 20170330**; CN 108138896 A 20180608; CN 108138896 B 20200103; EP 3334954 A1 20180620;  
JP 2018531348 A 20181025; JP 6671467 B2 20200325; KR 102145490 B1 20200818; KR 20180063209 A 20180611;  
US 2018283363 A1 20181004; WO 2017055363 A1 20170406

DOCDB simple family (application)  
**DE 102015218851 A 20150930**; CN 201680057333 A 20160928; EP 16777640 A 20160928; EP 2016073135 W 20160928;  
JP 2018516153 A 20160928; KR 20187012203 A 20160928; US 201615764874 A 20160928