

Title (en)  
Piston-cylinder-unit

Title (de)  
Kolben-Zylinder-Einheit

Title (fr)  
Unité de cylindre-piston

Publication  
**EP 2159428 A3 20120808 (DE)**

Application  
**EP 09010310 A 20090810**

Priority  
• DE 202008011557 U 20080829  
• DE 202009004673 U 20090408

Abstract (en)  
[origin: CN101660550A] The present invention relates to a piston-cylinder unit with a piston with adjoining piston rod, which is movably mounted in a cylinder, wherein the piston and the piston rod have a cavity into which at least one rod protrudes, by means of which an electrically conductive connection can be made directly or indirectly.

IPC 8 full level  
**F15B 15/14** (2006.01)

CPC (source: EP US)  
**B66C 23/80** (2013.01 - EP US); **F15B 15/1466** (2013.01 - EP US)

Citation (search report)  
• [X] FR 1525363 A 19680517 - COMPTEURS ET MOTEURS ASTER  
• [X] DE 202005006795 U1 20050721 - FESTO AG & CO [DE]  
• [X] DE 8508933 U1 19850704

Cited by  
CN103267803A; DE202014000334U1; DE202015000212U1; WO2015106648A1; US10308487B2; DE202014000337U1; DE202015000213U1; DE202014000335U1; DE202015000262U1; EP3498548B1

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**DE 202009004673 U1 20100128**; CN 101660550 A 20100303; CN 101660550 B 20160803; EP 2159428 A2 20100303; EP 2159428 A3 20120808; EP 2159428 B1 20190306; JP 2010052945 A 20100311; JP 5864076 B2 20160217; US 2010050864 A1 20100304; US 8516945 B2 20130827

DOCDB simple family (application)  
**DE 202009004673 U 20090408**; CN 200910171552 A 20090828; EP 09010310 A 20090810; JP 2009193481 A 20090824; US 54859209 A 20090827