

Title (en)  
CONTACT POINT OPENING-CLOSING DEVICE

Title (de)  
ÖFFNUNGS- UND SCHLIESSVORRICHTUNG FÜR KONTAKTSTELLE

Title (fr)  
DISPOSITIF D'OUVERTURE-FERMETURE DE POINTS DE CONTACT

Publication  
**EP 3193349 A1 20170719 (EN)**

Application  
**EP 15840417 A 20150901**

Priority  
• JP 2014181943 A 20140908  
• JP 2015074837 W 20150901

Abstract (en)  
A contact opening and closing device includes a driven contact, a driving contact, and a solenoid actuator. The driving contact is configured to move with respect to the driven contact. The solenoid actuator includes a movable component configured to move to an off position and an on position. When the movable component is in the off position, the driving contact and the driven contact are in a state of non-contact. When the movable component is in the on position, the driving contact and the driven contact are in a state of contact. When the driving contact and the driven contact are switched from a state of non-contact to a state of contact, the movable component moves from the off position to the on position through an overshoot position located beyond the on position.

IPC 8 full level  
**H01H 50/56** (2006.01); **H01H 50/08** (2006.01); **H01H 50/32** (2006.01); **H01H 50/34** (2006.01); **H01H 50/64** (2006.01); **H01H 51/06** (2006.01)

CPC (source: EP)  
**H01H 50/08** (2013.01); **H01H 50/32** (2013.01); **H01H 50/64** (2013.01); **H01H 51/06** (2013.01); **H01H 1/26** (2013.01); **H01H 1/28** (2013.01); **H01H 50/06** (2013.01); **H01H 50/20** (2013.01); **H01H 50/34** (2013.01); **H01H 50/546** (2013.01); **H01H 50/56** (2013.01)

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)  
**EP 3193349 A1 20170719**; **EP 3193349 A4 20180801**; **EP 3193349 B1 20200506**; CN 106796858 A 20170531; CN 106796858 B 20190326; JP 2016058178 A 20160421; JP 6264236 B2 20180124; WO 2016039220 A1 20160317

DOCDB simple family (application)  
**EP 15840417 A 20150901**; CN 201580038802 A 20150901; JP 2014181943 A 20140908; JP 2015074837 W 20150901