Title (en)
  Contact device and electromagnetic relay including same

Title (de)
  Kontaktvorrichtung und elektromagnetisches Relais damit

Title (fr)
  Dispositif de contact et relais électromagnétique l'incluant

Publication
  EP 2551868 B1 20150225 (EN)

Application
  EP 12174868 A 20120704

Priority
  JP 2011164192 A 20110727

Abstract (en)
  [origin: EP2551868A1] A contact device includes a contact point retainer configured to hold a movable contact point in one end portion thereof. The contact point retainer includes a plurality of contact point retaining springs superimposed in a thickness direction and formed of leaf springs and a housing configured to fix the other end portion of the contact point retainer and hold a fixed contact point in a position where the movable contact point can come into contact with or out of contact with the fixed contact point in response to elastic deformation of the contact point retainer. Each of the contact point retaining springs includes a bulging portion swelling away in a direction parallel or substantially parallel to a direction from the movable contact point and toward the fixed contact point.

IPC 8 full level
  H01H 1/26 (2006.01); **H01H 1/28** (2006.01); **H01H 1/54** (2006.01); **H01H 50/58** (2006.01); **H01H 50/64** (2006.01); **H01H 51/22** (2006.01)

CPC (source: EP)
  H01H 1/28 (2013.01); **H01H 1/54** (2013.01); **H01H 50/58** (2013.01); **H01H 50/642** (2013.01); **H01H 51/2227** (2013.01); H01H 2001/265 (2013.01)

Cited by
  EP2782110A1; CN106158513A; EP2876662A3; DE102014112011A1; US9715985B2; US9305718B2; WO2014147107A1

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)
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DOCDB simple family (application)
  EP 12174868 A 20120704; CN 201210261855 A 20120726; JP 2011164192 A 20110727