

Title (en)

Manufacturing and assembly method electrical contacts for small sized switches, in particular used in watch making

Title (de)

Verfahren zur Produktion und zur Montage von elektrischen Kontakten für kleine Schalter, die insbesondere in Uhrmacherei benutzt werden

Title (fr)

Procédé de fabrication et de montage de contacts électriques pour organes de commande de faibles dimensions, notamment pour l'horlogerie

Publication

EP 1515203 B1 20100526 (FR)

Application

EP 03020320 A 20030909

Priority

EP 03020320 A 20030909

Abstract (en)

[origin: EP1515203A1] The method involves stamping and pre-shaping a conductive material plate to form an intermediate base plate having a support structure (25). Electric contact strips are coupled to each other at points of attachment in the structure. The plate with the strips is placed so that each strip is held between two support pieces. Points of attachment are broken to make the strips independent and electrically insulated from each other.

IPC 8 full level

G04C 3/00 (2006.01); **G04G 1/02** (2006.01); **G04G 17/02** (2006.01); **G04G 21/00** (2010.01); **H01H 11/00** (2006.01); **H01H 25/06** (2006.01); **H01R 43/16** (2006.01); **H01H 15/10** (2006.01); **H01H 19/00** (2006.01)

CPC (source: EP KR US)

G04C 3/001 (2013.01 - EP US); **G04C 3/007** (2013.01 - EP US); **G04G 17/02** (2013.01 - KR); **H01H 11/0056** (2013.01 - EP US); **H01H 25/06** (2013.01 - EP US); **H01R 43/16** (2013.01 - EP US); **H01H 15/102** (2013.01 - EP US); **H01H 19/005** (2013.01 - EP US); **H01H 2300/016** (2013.01 - EP US); **Y10T 29/49002** (2015.01 - EP US); **Y10T 29/49105** (2015.01 - EP US); **Y10T 29/49204** (2015.01 - EP US); **Y10T 29/49208** (2015.01 - EP US); **Y10T 29/49218** (2015.01 - EP US); **Y10T 29/49222** (2015.01 - EP US); **Y10T 29/49579** (2015.01 - EP US); **Y10T 29/49586** (2015.01 - EP US)

Cited by

EP3506025A1; CN111556984A; US11480928B2; WO2019129492A1

Designated contracting state (EPC)

CH DE FR LI

DOCDB simple family (publication)

EP 1515203 A1 20050316; **EP 1515203 B1 20100526**; CN 1595573 A 20050316; CN 1595573 B 20100609; DE 60332728 D1 20100708; HK 1075129 A1 20051202; JP 2005084052 A 20050331; JP 4575091 B2 20101104; KR 100998403 B1 20101203; KR 20050026336 A 20050315; SG 110191 A1 20050428; TW 200512551 A 20050401; TW I372951 B 20120921; US 2005050718 A1 20050310; US 7302758 B2 20071204

DOCDB simple family (application)

EP 03020320 A 20030909; CN 200410079110 A 20040908; DE 60332728 T 20030909; HK 05107427 A 20050824; JP 2004262042 A 20040909; KR 20040069760 A 20040902; SG 200405612 A 20040830; TW 93125592 A 20040826; US 92379104 A 20040824