

Title (en)

PLUG-IN CONNECTOR COMPRISING A SECONDARY LOCKING MECHANISM IMPINGED BY A SPRING FORCE

Title (de)

STECKVERBINDER MIT FEDERKRAFT BEAUFSCHLAGTER SEKUNDÄRVERRIEGELUNG

Title (fr)

CONNECTEUR ENFICHABLE POURVU D'UN SYSTEME DE VERROUILLAGE SECONDAIRE SOUMIS A L'ACTION DE RESSORTS

Publication

EP 1540778 A1 20050615 (DE)

Application

EP 03797292 A 20030910

Priority

- DE 10242074 A 20020911
- EP 0310070 W 20030910

Abstract (en)

[origin: WO2004027938A1] The invention relates to a plug-in connector (1), in particular for airbag retaining systems, comprising a first housing (2, 3), which can be locked into a mating connector (7) by means of locking arms (4a, 4b) and a secondary locking mechanism (5) that can be impinged by a spring force. Said secondary locking mechanism (5) has tongues (6a, 6b), which block the locking arms (4a, 4b) once the latter have engaged in the mating connector (7), in addition to detent arms (8a, 8b), which are blocked by the introduction of one edge (9) of the mating connector (7) until the locking arms (4a, 4b) are engaged and which then slide off the edge (9) as a result of the spring force that has accumulated up to this point, pressing the secondary locking mechanism (5) into its final position.

IPC 1-7

H01R 13/627; **H01R 13/639**

IPC 8 full level

H01R 13/639 (2006.01); **H01R 13/627** (2006.01)

CPC (source: EP KR US)

H01R 13/627 (2013.01 - KR); **H01R 13/6273** (2013.01 - EP US); **H01R 13/639** (2013.01 - KR); **H01R 13/639** (2013.01 - EP US)

Citation (search report)

See references of WO 2004027938A1

Cited by

EP2840664A1; WO2014079418A1; US9478911B2; US9172183B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004027938 A1 20040401; AT E361561 T1 20070515; AU 2003260502 A1 20040408; BR 0314426 A 20050719; BR PI0314426 B1 20161101; CA 2498380 A1 20040401; CN 100414780 C 20080827; CN 1682411 A 20051012; DE 10242074 B3 20040519; DE 50307189 D1 20070614; EP 1540778 A1 20050615; EP 1540778 B1 20070502; ES 2287564 T3 20071216; JP 2005538530 A 20051215; KR 20050057297 A 20050616; MX PA05002469 A 20050527; US 2006079118 A1 20060413; US 7238039 B2 20070703

DOCDB simple family (application)

EP 0310070 W 20030910; AT 03797292 T 20030910; AU 2003260502 A 20030910; BR 0314426 A 20030910; CA 2498380 A 20030910; CN 03821708 A 20030910; DE 10242074 A 20020911; DE 50307189 T 20030910; EP 03797292 A 20030910; ES 03797292 T 20030910; JP 2004537036 A 20030910; KR 20057004089 A 20050310; MX PA05002469 A 20030910; US 52659305 A 20050815