

Title (en)  
A connector and a connector assembly

Title (de)  
Ein Verbinder und eine Verbindieranordnung

Title (fr)  
Un connecteur et un dispositif de connecteur

Publication  
**EP 1638175 A3 20061206 (EN)**

Application  
**EP 05020147 A 20050915**

Priority  
JP 2004272181 A 20040917

Abstract (en)  
[origin: EP1638175A2] An object of the present invention is to miniaturize a connector. A space for permitting the entrance of a receptacle 62 of a second connector housing 60 is defined between a connection circumferential surface 14 of a first connector housing 10 and a lock arm 15. Out of the space between the connection circumferential surface 14 of the first connector housing 10 and the lock arm 15, an area (accommodation space 18) where the receptacle 62 does not enter is a dead space. A spring member 50 is accommodated into this dead space. Thus, it is not necessary to provide a space exclusively used to arrange the spring member 50 and a connector can be miniaturized as a whole.

IPC 8 full level  
**H01R 13/627** (2006.01)

CPC (source: EP)  
**H01R 13/6272** (2013.01); **H01R 13/641** (2013.01)

Citation (search report)

- [X] US 6095843 A 20000801 - KANEKO SATORU [JP], et al
- [X] US 2001001750 A1 20010524 - KAWASE HAJIME [JP], et al
- [X] EP 0975066 A2 20000126 - SUMITOMO WIRING SYSTEMS [JP]
- [X] EP 0981185 A2 20000223 - SUMITOMO WIRING SYSTEMS [JP]

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EP3024097A1; FR3035745A1; CN106654710A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1638175 A2 20060322; EP 1638175 A3 20061206**; CN 100568635 C 20091209; CN 1756005 A 20060405; JP 2006086090 A 20060330

DOCDB simple family (application)  
**EP 05020147 A 20050915**; CN 200510103233 A 20050919; JP 2004272181 A 20040917