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(54) Title: ELECTRICAL CONNECTOR SYSTEMS WITH LATCHING ASSEMBLIES AND METHODS

(57) Abstract: An electrical connector system (10) with a first connector housing (26) with a first conductive member (28) and a second connector housing (46) with a second conductive member (60). At least one latch assembly (14) is connected at each end to the first connector housing (26) and has a beam (42) between the ends which extends along and is spaced out from the first connector housing (26). A projection (16) and an actuation member (18) extends out from the beam of the latching assembly (14). The second connector housing (46) has an aperture (22) shaped and sized to detachably mate with the projection (16) when the second connector housing (46) with the second conductive member (60) is mated with the first connector housing (26) with the first conductive member (28). The actuation member (18) is used to release the projection (16) from the aperture (22) when engaged.

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**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **H01R 13/627**( 2006.01)

USPC: 439/352,353,357,358;D13/146

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,431,887 B1 (YEOMANS et al) 13 August 2002 (13.08.2002), columns 5-7 and 9.	1-3,5,7-13,15,17-25 and 27-30
A	US 5,254,014 (YAGI et al) 19 October 1993 (19.10.1993), columns 1-3.	1-3,5,7-13,15,17-25 and 27-30
A	US 4,630,876 (GRUNBERG et al) 23 December 1986 (23.12.1986), see entire document.	1-30
A	US 4,857,008 (KEE et al) 15 August 1989 (15.08.1989), see entire document.	1-30
A	US 5,797,771 (GARSIDE) 25 August 1998 (25.08.1998), see entire document.	1-30
A, P	US 6,817,884 B1 (CHEN et al) 16 November 2004 (16.11.2004), see entire document.	1-30
A, T	US 6,991,487 B2 (WU) 31 January 2006 (31.01.2006), see entire document.	1-30

Further documents are listed in the continuation of Box C.

See patent family annex.

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