

Title (en)  
DOUBLE-LOCK CONNECTOR

Title (de)  
STECKVERBINDER MIT DOPPELTER VERRIEGELUNG

Title (fr)  
CONNECTEUR A VERROUILLAGE DOUBLE

Publication  
**EP 0941562 B1 20010117 (EN)**

Application  
**EP 97946952 A 19971120**

Priority  
• JP 33045796 A 19961126  
• US 9721498 W 19971120

Abstract (en)  
[origin: WO9824150A1] A double-lock connector includes a double-lock member, which can be used for locking the contacts in contact cavities arranged in a staggered pattern and which provides for a smooth operation when the double-lock member is shifted from a temporary-latched position to a fully-latched position. The double-lock member (50) has two elongated arms (51a, 51b) which can slide along the outer surfaces of side walls of an inner housing (20). Along the elongated arms (51a, 51b), locking members (60) are provided, which are arranged at fixed intervals in a longitudinal direction and facing inside. The cross section of the locking members (60) is of an L-shaped configuration and they lock electrical contacts (100) in contact cavities (30) when the double-lock member is in the fully-latched position. Along outside surfaces of the housing (20), grooves (28) of L-shaped cross section are formed into which the latching members (60) are disposed. Due to the fact that the latching members (60) are disposed within the grooves (28), the arms (51a, 51b) are retained against outer surfaces of side walls of the inner housing (20) when the double-lock member (50) is moved therealong.

IPC 1-7  
**H01R 13/436**

IPC 8 full level  
**H01R 13/42** (2006.01); **H01R 13/436** (2006.01); **H01R 13/629** (2006.01)

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