

Title (en)
Retaining latch and receptacle housing

Title (de)
Sicherungsklinke und Behältergehäuse

Title (fr)
Verrou de retenue et boîtier de prise

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EP 2996205 A1 20160316 (EN)

Application
EP 14306384 A 20140909

Priority
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Abstract (en)
The present invention relates to a retaining latch (2) for retaining a plug (4) within a receptacle (33) of an electrical connector (5), especially to be handled by a remotely operated vehicle in subsea use, the retaining latch (2) having a basic structure (20) shaped bent around a central axis (C) of the retaining latch (2) and comprising at least one latching element (23a, 23b) configured to be brought into engagement with the plug (4). Further, the invention relates to a body (3) for a receptacle housing (1) of a socket of an electrical connector (5), especially to be handled by a remotely operated vehicle in subsea use, the body (3) having an opening (32a, 32b) to a receptacle (33) at least partly formed by a wall (30) of the body (3). Finally, the invention relates to a receptacle housing (1) for a socket of an electrical connector (5), especially to be handled by a remotely operated vehicle in subsea use. In order to reliably retain a plug (4) within the receptacle (33) and enable easy handling of the connector (5), the present invention provides that a latching section (21 a, 21 b) of the retaining latch (2) provides the at least one latching element (23a, 23b) as a part of the annular basic structure (20) which is elastically deformable radially away from the central axis (C), the wall (30) is provided with at least one slot (34a, 34b) extending from the outside of the body (3) into the receptacle (33) and perpendicularly to a middle axis (M) of the receptacle (33) along the outer circumference (38) of the body (3), the retaining latch (2) is fitted around the outer circumference (39) of the body (3) such that the at least one latching element (23a,23b) extends through the at least one slot (34a, 34b) into the receptacle (33).

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Citation (search report)
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