

Title (en)
HOUSING ASSEMBLY FOR AN ELECTRICAL CONNECTOR WITH AN OPERATING LEVER AS WELL AS ELECTRICAL CONNECTOR AND CONNECTOR ASSEMBLY

Title (de)
GEHÄUSEZUSAMMENBAU FÜR EINEN ELEKTRISCHEN VERBINDER MIT EINEM BETÄTIGUNGSHEBEL SOWIE ELEKTRISCHER VERBINDER UND VERBINDERANORDNUNG

Title (fr)
ENSEMBLE BOÎTIER POUR UN CONNECTEUR ÉLECTRIQUE DOTÉ D'UN LEVIER DE COMMANDE AINSI QU'UN CONNECTEUR ÉLECTRIQUE ET ENSEMBLE CONNECTEUR

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Application
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Abstract (en)
The present invention relates to a space-saving and sealable housing assembly (1) for an electrical connector (2) adapted to be intermated with a mating connector (6) and provided with a mating assistance system. The housing assembly (1) comprises a connector housing (10) and an operating lever (12) pivotably arranged on the connector housing (10), wherein the operating lever (12) has at least one drive element (38) which is arranged such that it can be brought into engagement with the mating connector (6), wherein the operating lever (12) has at least one lever arm (14) which is provided with a bearing journal (16), wherein the connector housing (10) has at least one bearing hole (18) having inserted therein the bearing journal (16) of the at least one lever arm (14), and wherein at least one bearing seal (46) is arranged between the connector housing (10) and the bearing journal (16) of the at least one lever arm (14). The operating lever (12) with its at least one drive element (38) serves the purpose of mechanically assisting the mating process between the electrical connector (2) and the mating connector (6). In addition, the bearing journal (16) on the operating lever (12) contributes to the tightness of the housing assembly (1) through its arrangement in relation to the connector housing (10) and the at least one bearing seal (46). This functional integration at the operating lever (12) allows the housing assembly (1) according to the present invention to be configured in a space-saving and at the same time sealed manner. The present invention further relates to an electrical connector (2) with such a housing assembly (1) and a connector assembly (4) with the electrical connector (2).

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Citation (search report)
• [XY] DE 102004017275 A1 20051027 - TYCO ELECTRONICS AMP GMBH [DE]
• [Y] WO 2010070395 A1 20100624 - FRAMATOME CONNECTORS INT [FR], et al
• [Y] US 5597315 A 19970128 - TAGUCHI NAOTO [JP]
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• [Y] DE 102005050625 A1 20060524 - SUMITOMO WIRING SYSTEMS [JP]

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