

Title (en)
Electrical plug-in connector assembly with locking member

Title (de)
Elektrosteckernordnung mit Verriegelungselement

Title (fr)
Ensemble connecteur électrique enfichable avec élément de verrouillage

Publication
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Application
EP 12176217 A 20120712

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Abstract (en)
[origin: EP2685570A1] The present invention relates to an electrical plug-in connector assembly (1), in particular for establishing an electrical connection with an airbag arrangement in a vehicle, comprising a connector (2), a mating connector (3) adapted to be mated with the connector (2) along a plug direction (P), and a locking member (4) adapted to be moved in an actuation direction (A), wherein in a final state (F) of the plug-in connector assembly (1), the connector (2) is in a fully mated position (M) with the mating connector (3) and the locking member (4) is in a locking position (L) where it is supported at least at the connector (2) and secures the connector (2) and the mating connector (3) in the fully mated position (M). Further, the present invention relates to the connector (2) and the mating connector (3). In order to provide high retention forces, the present invention provides that the actuation direction (A) extends essentially perpendicularly to the plug direction (P) and in that the locking member (4) is in mesh with the mating connector (3) at least in the final state (F). The locking member (4) may provide a secondary lock independent to a primary lock for latching the connector (2) and the mating connector (3) in the fully mated position (M) and may further serve as a connector positioning assurance ("CPA").

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Citation (examination)

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- WO 9807213 A2 19980219 - THOMAS & BETTS INT [US]
- US 5236373 A 19930817 - KENNEDY ROBERT D [US]

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EP3396790A1; CN108832427A; US10290972B2; US9614327B2

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