

Title (en)  
MAGNETOMECHANICAL CONNECTION ASSEMBLY WITH LOAD SECURING

Title (de)  
MECHANISCH-MAGNETISCHE VERBINDUNGSKONSTRUKTION MIT LAST-SICHERUNG

Title (fr)  
STRUCTURE D'ASSEMBLAGE MÉCANO-MAGNÉTIQUE À SÉCURISATION DE CHARGE

Publication  
**EP 2254435 A2 20101201 (DE)**

Application  
**EP 09713624 A 20090222**

Priority  
• DE 2009000231 W 20090222  
• DE 102008010273 A 20080221

Abstract (en)  
[origin: WO2009103279A2] The invention relates to a connection assembly, comprising two connecting modules (1, 2) each with a load housing (51, 52) with the following features: a locking device with a spring locking element (9) and a latch piece (5), a magnet and armature construction and a movement track (60), on which the latch piece (5) can be moved from a closed position to an open position, the locking device, the magnet and armature construction and the movement track (60) cooperating by means of the following features: a. on opening, the connecting modules are moved on the movement track (60), wherein the magnet (8) and armature are moved in opposition and simultaneously the latch piece (5) and the spring locking element (9) are moved in opposition, until the spring locking element (9) is no longer engaged. On closing, the connecting module locks in with the aid of magnetic force. According to the invention, the position of the load housings (51, 52) and the position and form of the movement track (60) are designed such that on moving the connecting module the load housings (51, 52) move together by an amount  $\Delta x$  against the load FL.

IPC 8 full level  
**A44B 11/25** (2006.01)

CPC (source: EP US)  
**A44B 11/25** (2013.01 - EP US); **A44B 11/266** (2013.01 - EP US); **A45C 13/1069** (2013.01 - EP US); **A44D 2203/00** (2013.01 - EP US); **Y10T 24/32** (2015.01 - EP US); **Y10T 24/45723** (2015.01 - EP US); **Y10T 24/45775** (2015.01 - EP US); **Y10T 24/45785** (2015.01 - EP US)

Citation (search report)  
See references of WO 2009103279A2

Cited by  
DE102022134192B3; WO2024133429A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2009103279 A2 20090827; WO 2009103279 A3 20100107**; CN 101951801 A 20110119; CN 101951801 B 20121128; EP 2254435 A2 20101201; EP 2254435 B1 20171129; US 2010325844 A1 20101230; US 8359716 B2 20130129

DOCDB simple family (application)  
**DE 2009000231 W 20090222**; CN 200980106370 A 20090222; EP 09713624 A 20090222; US 91844009 A 20090222