

Title (en)  
MECHANIC-MAGNETIC CONNECTING STRUCTURE

Title (de)  
MECHANISCH-MAGNETISCHE VERBINDUNGSKONSTRUKTION

Title (fr)  
STRUCTURE DE LIAISON MÉCANICO-MAGNÉTIQUE

Publication  
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Application  
**EP 07801151 A 20070712**

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Abstract (en)  
[origin: WO2008006357A2] The invention relates to a connecting structure which comprises the following features: a locking device having a spring-loaded locking element (9) and a locking element (5) for locking the connecting modules, and a magnet/armature structure having a magnet (4) and an armature (8). The locking device and the magnet/armature structure are functionally linked by the following features: the magnet (4) and the armature (8) can be displaced, the magnet (4) or the armature (8) is coupled to the locking bar (5) via a coupling element (7) so that the locking element (5), when displaced between the magnet (4) and the armature (8), can be brought into a non-locking position. The magnetic force is chosen in such a manner that the connecting modules are pulled towards each other during closing, the spring-loaded locking element (9) pushing against the locking element (5) until it snaps into engagement and the magnetic force is weaker during release once the locking position of the locking element (5) and the spring-loaded locking element (8) is reached in order to separate the module. The structure also comprises return elements for returning the locking element (5) to its initial position.

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Citation (search report)  
See references of WO 2008006357A2

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WO2024052123A1; DE102022206461B3; EP4108124A1; DE102021206640A1; DE102022134192B3; DE102022122946B3; DE102021208311B3; EP4124257A1; US11857033B2; WO2020058262A1; EP4014782A1; EP4023095A1; US11425968B2; US11641912B2

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