

Title (en)  
CLOSURE DEVICE FOR CONNECTING TWO PARTS

Title (de)  
VERSCHLUSSVORRICHTUNG ZUM VERBINDEN ZWEIER TEILE

Title (fr)  
DISPOSITIF DE FERMETURE DESTINÉ À RELIER DEUX PIÈCES

Publication  
**EP 3515224 B1 20221228 (DE)**

Application  
**EP 17783730 A 20170921**

Priority  
• DE 102016218267 A 20160922  
• EP 2017073898 W 20170921

Abstract (en)  
[origin: WO2018055033A1] A closure device (1) for connecting two parts comprises a first closure part (2) which has a first surface (203) with, arranged thereon, an arrangement of first structure elements (22), and a second closure part (3) which has a second surface (303) with, arranged thereon, an arrangement of second structure elements (32), wherein the first closure part (2) and the second closure part (3) are to be fitted together such that the first surface (203) of the first closure part (2) is oriented toward the second surface (303) of the second closure part (3), such that the first structure elements (22) and the second structure elements (32) engage in one another so as to prevent relative movement between the closure parts (2, 3) along a loading direction (B1, B2). In that context, it is provided that the first closure part (2) has a first magnet arrangement (21) with a plurality of magnetic poles (N, S) offset with respect to one another along the first surface (203), and the second closure part (3) has a second magnet arrangement (31) with a plurality of magnetic poles (N, S) offset with respect to one another along the second surface (303). This provides a closure device which is able to take up tensile loads, is easy to close and also easy to reopen.

IPC 8 full level  
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CPC (source: EP US)  
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