

Title (en)  
SLIDING DOOR COMPRISING A MAGNETIC SUPPORT AND DRIVE SYSTEM

Title (de)  
SCHIEBETÜR MIT EINEM MAGNETISCHEN TRAG- UND ANTRIEBSSYSTEM

Title (fr)  
PORTE COULISSANTE A SYSTEME DE SUSPENSION ET D'ENTRAINEMENT MAGNETIQUE

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Application  
**EP 05784391 A 20050912**

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Abstract (en)  
[origin: WO2006039972A1] The invention relates to a sliding door comprising a magnetic support and drive system for at least one door leaf (5). Said system comprises a row of magnets (1), which is arranged in the drive direction and whose magnetisation changes its polarity in the longitudinal direction at specified intervals and a winding assembly consisting of several individual windings (7) and cores (12), said assembly causing an interaction with the row of magnets (1) that initiates feed forces when the individual windings (7a-c) are controlled in a corresponding manner. According to the invention, the cores (12) or pole shoes lying against said cores interact by force of attraction with the row of magnets (1). The system also comprises a guide element (25), which safeguards a specific gap interval (a) between the row of magnets (1) and the cores (12) or the pole shoes, a support carriage (4), to which the door leaf can be fixed (5) and an adjusting unit for the load capacity (19, 20), which is used to set the specific gap interval (a).

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