

Title (en)  
CLOSING DEVICE

Publication  
**EP 0284654 B1 19910821 (DE)**

Application  
**EP 87116231 A 19871104**

Priority  
DE 3710347 A 19870328

Abstract (en)  
[origin: EP0284654A2] A closing device (10) with a pneumatic drive (20), for example for a door of a motor vehicle, is provided. The drive (20) of the closing device (10) can be installed, even under confined conditions of space, if it is connected to the outlet (34) of a pneumatic conveyor device (30), the inlet (32) of which is connected to the interior (40) of a tubular sealing element (42) arranged between the door and its frame. The drive (20) is designed in the form of a diaphragm cell (22), and each drive has its own vane pump as a conveyor device (30). During the closing of the door, the sealing element (42) is evacuated and the drive (10) subjected to compressed air. For opening, the pressure conditions are reversed, whilst a relief valve (44) limits the pressure in the sealing element (42). An electrical control and monitoring of the pump (30) is possible. <IMAGE>

IPC 1-7  
**E05B 51/02; E05B 65/38**

IPC 8 full level  
**E05B 51/02** (2006.01)

CPC (source: EP)  
**E05B 77/50** (2013.01)

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**EP 0284654 A2 19881005; EP 0284654 A3 19890920; EP 0284654 B1 19910821**; DE 3710347 A1 19881006; DE 3772380 D1 19910926

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