

Title (en)  
ROLLER DOOR

Publication  
**EP 0314967 A3 19900829 (DE)**

Application  
**EP 88117208 A 19881015**

Priority  
DE 3735850 A 19871023

Abstract (en)  
[origin: EP0314967A2] Roller doors are provided with a flexible doorleaf which can be wound onto a winding roll which is mounted rotatably above the door opening, at least one pulley being connected fixed in terms of rotation with the winding roll, onto or from which pulley is wound or unwound, in contrarotating manner with respect to the doorleaf on the winding roll, a flexible traction element (belt, cable, chain) which is loaded with a counterweight for compensating the weight of the doorleaf. In order also to be able to effect a tautening of the doorleaf which is known per se in a structurally simple clearly arranged manner, the invention provides that for separating the functions of weight compensation and tautening of the doorleaf, at least a second pulley (21a, 21b) is connected fixed in terms of rotation with the winding roll (2), onto which or from which roll is wound or unwound, likewise in contrarotating manner with respect to the doorleaf (1), a flexible traction element (belt, cable, chain) (20a, 20b), this traction element (20a, 20b) being guided around a deflection roller (27) which is mounted stationarily at the bottom of the door opening and being connected to the doorleaf (1) or to a strip (12) which reinforces the bottom edge of the doorleaf, and a tensioning roller (22a, 22b) being provided which presses with a transverse force against the strand (20a2, 20b2) of the traction element (20a, 20b) which runs between the pulley (21a, 21b) and the deflection roller (27). <IMAGE>

IPC 1-7  
**E06B 9/20**

IPC 8 full level  
**E06B 9/56** (2006.01); **E06B 9/62** (2006.01); **E06B 9/68** (2006.01)

CPC (source: EP)  
**E06B 9/62** (2013.01); **E06B 9/68** (2013.01)

Citation (search report)  
• [AD] CH 89785 A 19210701 - GAUGER & CO F [CH]  
• [A] DE 2341328 B2 19780720  
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• [AD] DE 3345016 C2 19860925

Cited by  
US6805187B2; EP0405869A3; US6775936B2

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