

Title (en)
Folding wing door

Title (de)
Faltflügeltür

Title (fr)
Porte à vantaux pliables

Publication
EP 0794310 A1 19970910 (DE)

Application
EP 96810120 A 19960304

Priority
EP 96810120 A 19960304

Abstract (en)
The door (1) has a number of folding leaves (10,12,13,15) joined in pairs by links (11,14). The linear drive system (2) opens and closes the door leaves which are locked against a forced opening by an active, controlled locking system (25,26). The locking system is mechanically connected to the linear drive system both of which are on the top of the door. The first folding leaves (10,15) pivot on a fixed pivot axle (9,16). The second folding leaves (12,13) are pivotally connected to the first folding leaves by links. The linear drive system comprises a linear drive element (4) driven by a motor (5) and connected mechanically to the second folding leaves. The locking system each comprises a locking element swivelling on a fixed pivot axle and mechanically connected to the linear drive element.

Abstract (de)
Bei einer Faltflügeltür (1), umfassend eine Mehrzahl von Faltflügeln (10, 12, 13, 15), welche paarweise durch Faltgelenke (11, 14) miteinander verbunden sind, ein lineares Antriebssystem (2), welches durch eine lineare Bewegung in der Türebene die Faltflügeltür (1) öffnet und schliesst, sowie Mittel zum Verriegeln der Faltflügel (10, 12, 13, 15) bei geschlossener Tür gegen ein unerlaubtes Öffnen, wird eine automatische Verriegelung, die im Notfall gleichwohl mit geringem Aufwand per Hand geöffnet werden kann, dadurch erreicht, dass die Verriegelungsmittel als aktives, gesteuertes Verriegelungssystem (25, 26) ausgebildet sind. <IMAGE>

IPC 1-7
E05F 15/10

IPC 8 full level
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CPC (source: EP)
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Citation (search report)

- [XY] DE 4002232 A1 19910801 - STRIEGEL METALLFORM GMBH [DE]
- [Y] US 3224493 A 19651221 - HOUK RICHARD D

Cited by
ITPR20090052A1; BE1019437A3; FR2783275A1; FR2925565A1; CN102555740A; DE19817210C2; EP1088959A1; CN107074500A; AU2015334875B2; CN107829656A; CN111904351A; US10087047B2; WO2016062840A1

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