

Title (en)  
Actuation device for front flaps for motor rail coaches or driving cab vehicles

Title (de)  
Einrichtung zur Betätigung der Bugklappen von Trieb- oder Steuerwagen

Title (fr)  
Dispositif pour la commande des clapets avant d'une motrice ou d'une voiture-pilote

Publication  
**EP 0870667 A3 19990120 (DE)**

Application  
**EP 98100422 A 19980113**

Priority  
DE 29706073 U 19970407

Abstract (en)  
[origin: EP0870667A2] The operating device consists of flap transmissions on both sides of the rail vehicle, one for each flap, e.g. upper and lower, with one drive for each flap. The flap transmission consists of four-link units (3,3') connected to the flaps. They are connected up both directly and via two-link units (6,6') which are in working connection with the drives (10,10') and are fixed to the main bearing (4).

IPC 1-7  
**B61G 7/00**; **B61D 49/00**; **B61D 17/02**

IPC 8 full level  
**B61D 17/02** (2006.01); **B61D 7/00** (2006.01); **B61D 17/06** (2006.01); **B61D 49/00** (2006.01); **B61G 7/14** (2006.01)

CPC (source: EP)  
**B61D 17/06** (2013.01)

Citation (search report)  
• [A] DE 4445182 C1 19951221 - BERGISCHE STAHLINDUSTRIE [DE]  
• [A] DE 4312405 A1 19931104 - GEORG FISCHER FORMTECH AG SCHA [CH]

Cited by  
WO2007073273A1; EP1350703A1; CN103802848A; CN103687775A; CN103935376A; EP2308738A1; CN102310865A; CN110203241A; US9022238B2; US7191909B2; US8607713B2; WO2013024142A1

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**EP 98100422 A 19980113**; AT 98100422 T 19980113; CZ 72898 A 19980311; DE 29706073 U 19970407; DE 59810195 T 19980113