

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 B1 20031119 (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

**B61D 17/02**; **B61G 7/14**; **B61D 7/00**; **B61D 49/00**

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)

Cited by

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

Designated contracting state (EPC)

AT CH DE FR LI

DOCDB simple family (publication)

**EP 0870667 A2 19981014**; **EP 0870667 A3 19990120**; **EP 0870667 B1 20031119**; AT E254556 T1 20031215; CZ 288637 B6 20010815; CZ 72898 A3 19981014; DE 29706073 U1 19970731; DE 59810195 D1 20031224

DOCDB simple family (application)

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