

Title (en)

Safety switching circuitry for tilting and/or hoisting devices

Title (de)

Sicherheitsschaltanordnung für Hubkippr- oder Kippvorrichtungen

Title (fr)

Circuit de sécurité avec contacteurs pour dispositifs de renversement et/ou de levage

Publication

**EP 0391225 B2 19960306 (DE)**

Application

**EP 90105872 A 19900328**

Priority

DE 3910660 A 19890403

Abstract (en)

[origin: EP0391225A1] In order to prevent the manipulation of switches, such as flap and acknowledgement signal switches, which are provided for the safety of the operating personnel, these switches are connected to a circuit monitoring device 25 which is electrically connected to the automatic control device 30 for the automatic emptying of containers, in particular waste containers, into collecting containers. This circuit monitoring device 25 issues a release signal to the automatic control device 30 only when the desired switching state of the switches 11 and 16 is present. Additionally, further safety switches can be provided, such as for example an upper and a lower reference switch 9 and 32. Moreover, the circuit monitoring device is also connected to a barrier switch 13 and designed to test the switching position of the gear shifting of the vehicle 22. <IMAGE>

IPC 1-7

**B65F 3/04**

IPC 8 full level

**B65F 3/04** (2006.01); **B66F 17/00** (2006.01); **F16P 5/00** (2006.01); **B65F 3/00** (2006.01); **B65F 3/02** (2006.01)

CPC (source: EP US)

**B65F 3/04** (2013.01 - EP US); **B65F 3/001** (2013.01 - EP US); **B65F 2003/0253** (2013.01 - EP US)

Cited by

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**EP 0391225 A1 19901010**; **EP 0391225 B1 19930714**; **EP 0391225 B2 19960306**; AT E91478 T1 19930715; CA 2013604 A1 19901003; CA 2013604 C 20000523; CZ 149790 A3 19950614; CZ 280124 B6 19951115; DD 300534 A5 19920617; DE 3910660 A1 19901004; DE 59001940 D1 19930819; ES 2042114 T3 19931201; ES 2042114 T5 19960516; PT 93642 A 19920228; PT 93642 B 19970528; SK 149790 A3 19980408; SK 278898 B6 19980408; US 5062759 A 19911105; ZA 902470 B 19910327

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