

Title (en)

Locking device in hatch covers or closing flaps of vehicles, in particular of fighting vehicles

Title (de)

Verriegelungsvorrichtung an Lukendeckeln oder Verschlussklappen von Fahrzeugen, insbesondere Kampffahrzeugen

Title (fr)

Dispositif de verrouillage en panneaux d'écrouille ou volets de fermeture de véhicules, notamment de véhicules de combat

Publication

**EP 1621708 A3 20060719 (DE)**

Application

**EP 05013651 A 20050624**

Priority

DE 102004036612 A 20040728

Abstract (en)

[origin: EP1621708A2] The swing hatch cover (2), especially for an armored fighting vehicle, is on a hinged mounting at the hatch opening (1.2) in the housing (1). A number of locks (3.1-3.4) are distributed around the edge of the cover to work with lock units (4.1-4.8) at the rim of the hatch opening. The cover locks are mounted to a sliding component within a guide (8) around the cover edge, with a longitudinal sliding movement when operated by a lever (5) to move them simultaneously between locked and released settings.

IPC 8 full level

**E05C 9/06** (2006.01); **F41H 5/22** (2006.01); **E05B 17/00** (2006.01); **E05B 53/00** (2006.01)

IPC 8 main group level

**F41H** (2006.01)

CPC (source: EP US)

**E05B 79/20** (2013.01 - EP US); **E05B 83/01** (2013.01 - EP US); **E05C 9/063** (2013.01 - EP US); **E05C 9/24** (2013.01 - EP US); **F41H 5/223** (2013.01 - EP US); **E05B 17/0025** (2013.01 - EP US); **E05B 17/0029** (2013.01 - EP US)

Citation (search report)

- [XA] CH 325780 A 19571130 - GRETSCH UNITAS GMBH [DE]
- [XA] EP 1031693 A1 20000830 - TAKIGEN MFG CO [JP]
- [X] EP 1067265 A1 20010110 - WINKHAUS FA AUGUST [DE]
- [X] DE 3331827 A1 19850321 - SCHUERMANN & CO HEINZ [DE]
- [X] GB 2161201 A 19860108 - HARDWARE & SYSTEMS PATENTS LTD
- [A] DE 2224012 A1 19731129 - DAIMLER BENZ AG, et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1621708 A2 20060201**; **EP 1621708 A3 20060719**; **EP 1621708 B1 20081217**; AT E417981 T1 20090115; DE 102004036612 A1 20060323; DE 502005006253 D1 20090129; ES 2319780 T3 20090512; NO 20053327 D0 20050707; NO 20053327 L 20060130; NO 330593 B1 20110523; US 2006021543 A1 20060202

DOCDB simple family (application)

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