

Title (en)

Device for opening and closing the cover of a sliding hatch of an armoured vehicle, in particular a tank

Title (de)

Vorrichtung zum Öffnen und Schliessen des Lukendeckels einer Schiebeluke an einem Kampffahrzeug, insbesondere einem Kampfpanzer

Title (fr)

Dispositif pour l'ouverture et la fermeture d'un couvercle d'une trappe d'un véhicule de combat, en particulier un char

Publication

EP 1150090 A3 20040609 (DE)

Application

EP 01109810 A 20010421

Priority

DE 20007620 U 20000427

Abstract (en)

[origin: EP1150090A2] The device comprises a toothed bar on the hatch cover in which the driven pinion of a gear connected with an operating device engages. Between the driven pinion and the operating device is connected an automatic braking and securing device. As the automatic braking and securing device functions, a clamp roller load torque stop is arranged in the gear housing (1), with an outer ring (2) firmly connected to the housing, in which an inner ring is rotatably located, which is connected with a driven component on the gear. In a clamp gap between the inner and outer rings at least one clamp roller pair is arranged. The clamp rollers are pressed into a clamping position by at least one pressure spring. In this position the driven component is blocked. Each of the clamp rollers is loaded with a total force of at least 45 N. The clamp angle amounts to 5.75 degrees.

IPC 1-7

F41H 5/22; **F16D 67/00**; **E05F 15/10**; **E05F 15/14**

IPC 8 full level

F41H 5/22 (2006.01)

CPC (source: EP)

F41H 5/223 (2013.01)

Citation (search report)

- [DY] DE 4240140 A1 19940601 - WEGMANN & CO GMBH [DE]
- [Y] GB 482091 A 19380323 - RENE BENJAMIN HOUPAIN
- [A] EP 0326831 A1 19890809 - HOERMANN KG [DE]
- [A] EP 0725201 A1 19960807 - IFE GMBH [AT]
- [A] DE 29919107 U1 20000316 - IWD INGENIEUR WERNER DILL GMBH [DE]
- [A] TOOTEN ET AL: "STAND DER ENTWICKLUNG UND EINSATZMOEGlichkeiten VON LASTMOMENTSPERREN", ANTRIEBSTECHNIK, KRAUSSKOPF VERLAG FUR WIRTSCHAFT GMBH. MAINZ, DE, vol. 32, no. 1, 1993, pages 57 - 61, XP000338549, ISSN: 0722-8546

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EP1698851A1; DE202005003541U1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1150090 A2 20011031; **EP 1150090 A3 20040609**; **EP 1150090 B1 20060315**; AT E320585 T1 20060415; DE 20007620 U1 20010830; DE 50109190 D1 20060511; DK 1150090 T3 20060724; ES 2260114 T3 20061101; NO 20012031 D0 20010425; NO 20012031 L 20011029; NO 321749 B1 20060626

DOCDB simple family (application)

EP 01109810 A 20010421; AT 01109810 T 20010421; DE 20007620 U 20000427; DE 50109190 T 20010421; DK 01109810 T 20010421; ES 01109810 T 20010421; NO 20012031 A 20010425