

Title (en)

Self-locking safety hinge, particularly for opening and closing a hatch

Title (de)

Selbst-sperrendes Sicherheitsscharnier, insbesondere zum Öffnen und Schließen einer Klappe

Title (fr)

Charnière de sécurité à verrouillage automatique, en particulier pour ouvrir et fermer une trappe

Publication

**EP 1988339 A3 20090805 (EN)**

Application

**EP 08155101 A 20080424**

Priority

IT BO20070313 A 20070430

Abstract (en)

[origin: EP1988339A2] A self-locking safety hinge for opening and closing a hatch, comprising a first fixed element (2). A second movable element (3) is jointly connected to the hatch and is coupled to the first element (2) so that it can rotate. Members (4) for articulation between the first element (2) and the second element (3) can be actuated manually and selectively from a free rotation configuration, in which the hatch can be moved from an open position to a closed position and vice versa, to a safety configuration, in which the hatch is locked stably in the open position by way of retention means (5). The retention means (5) comprise at least one profile (6) formed by the second element (3) and at least one contact surface (7) which ends with at least one rear bevel (8) provided on the first element (2). When the articulation members (4) are in the safety configuration, the profile (6) abuts substantially against the bevel (8) of the contact surface (7). When the articulation members (4) are in the free rotation configuration, the profile (6) is substantially spaced from the contact surface (7). The retention means comprise at least one first wall (9) on the second element (3) which can engage the bevel (8), the bevel (8) having a curvature which is adapted for the automatic lifting of the hatch by sliding the first wall (9) on the bevel (8), as a consequence of manual traction of the hatch in the closure direction from the safety configuration.

IPC 8 full level

**F24C 15/12** (2006.01); **E05D 1/00** (2006.01)

CPC (source: EP)

**E05D 3/022** (2013.01); **F24C 15/12** (2013.01); **E05Y 2201/416** (2013.01); **E05Y 2900/308** (2013.01)

Citation (search report)

- [A] EP 1548217 A2 20050629 - G Z INTERNAT DI GARBIN O E C S [IT]
- [A] BE 900358 A 19850213 - SUTER N V SA
- [A] US 4119240 A 19781010 - DUMAS SARAH J, et al

Cited by

CN109629943A; EP4102139A1; WO2013053821A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 1988339 A2 20081105**; **EP 1988339 A3 20090805**; IT BO20070313 A1 20081101

DOCDB simple family (application)

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