

Title (en)

Window hinge assembly and method of mounting a sash in a frame

Title (de)

Fensterscharnieranordnung und Verfahren zum Montieren eines Flügels an einem Rahmen

Title (fr)

Ensemble de charnière de fenêtre et procédé pour monter un châssis de fenêtre sur un cadre

Publication

**EP 2157265 A1 20100224 (EN)**

Application

**EP 09157624 A 20090408**

Priority

- EP 2008060969 W 20080821
- EP 2008060966 W 20080821
- EP 09157624 A 20090408

Abstract (en)

The window hinge assembly comprises a first and a second window hinge (6a, 6b) adapted to connect the sash to the frame and at least one window balance arm (7a, 7b). Each window hinge comprises a first mounting bracket (14), a second mounting bracket (15) and a connecting member (16) slidably connected to the first mounting bracket and pivotally connected to the second mounting bracket. The displacement of the connecting member (16) relative to the first mounting bracket is restricted. A bearing block (18) has a boring (19a, 19b) for the pivot pin and an insertion channel (20a, 20b) allowing radial insertion of the pivot pin into the boring from a freely accessible insertion side (21). A locking member is provided for locking the pivot pin (17) in the boring. The pivot pin has a shaft section (23) and a head section (24) having a diameter larger than the boring.

IPC 8 full level

**E05D 3/02** (2006.01); **E05D 7/10** (2006.01); **E05D 15/40** (2006.01); **E05D 15/46** (2006.01)

CPC (source: EP)

**E05D 3/022** (2013.01); **E05D 7/1061** (2013.01); **E05D 7/1077** (2013.01); **E05D 15/40** (2013.01); **E05D 15/466** (2013.01); **E05Y 2600/00** (2013.01); **E05Y 2600/53** (2013.01); **E05Y 2900/00** (2013.01); **E05Y 2900/148** (2013.01)

Citation (applicant)

- JP 2002138744 A 20020517 - YKK ARCHITECTURAL
- US 5392494 A 19950228 - WRONSKI YUREK A [GB]
- US 6643896 B2 20031111 - CARRIER GERMAIN [CA]
- EP 1612354 A2 20060104 - SAVIO SPA [IT]

Citation (search report)

- [A] EP 0351340 A1 19900117 - FERCO INT USINE FERRURES [FR]
- [A] DE 8703227 U1 19870702

Cited by

CN109690003A; CN111734243A; EP3954851A1

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2157265 A1 20100224; EP 2157265 B1 20120627**

DOCDB simple family (application)

**EP 09157624 A 20090408**