

Title (en)

3-D ADJUSTABLE HINGE FOR DOOR OR WINDOW

Title (de)

3D-VERSTELLBARES SCHARNIER FÜR TÜR ODER FENSTER

Title (fr)

CHARNIÈRE RÉGLABLE 3D POUR PORTE OU FENÊTRE

Publication

EP 3680432 A1 20200715 (EN)

Application

EP 20151005 A 20200109

Priority

US 201962791273 P 20190111

Abstract (en)

A hinge for mounting a door-panel or window sash to a frame is provided with enhanced security features. The hinge includes a frame part and a door or sash part connected by a hinge pin. The door or sash part includes a door or sash mounting plate and a door or sash side hinge barrel is connected to the door or sash mounting plate. The frame part includes a frame plate fixedly attached to a frame side hinge barrel, at least one lateral adjustment screw threadingly engaged in an opening in the frame plate, and a gasket pressure adjustment opening in the frame plate, as well as a frame part main block having a cavity that extends in from a first surface of the frame part main block for receiving the frame plate. Mounting holes extend from the first surface through a second, opposite surface of the frame part main block. Hinge adjustment screws and openings as well as locking screw openings. The locking screw openings are aligned with the mounting holes and receive locking screws to block access to the mounting screws after installation. In a closed position of the hinge, the door or sash mounting plate covers the third surface. This prevents access to the locking screws as well as the adjustments for lateral positioning and gasket pressure adjustment when the door or window sash is in a closed position.

IPC 8 full level

E05D 7/00 (2006.01); **E05D 7/04** (2006.01)

CPC (source: EP)

E05D 7/0027 (2013.01); **E05D 7/0415** (2013.01); **E05D 5/128** (2013.01); **E05D 11/0054** (2013.01); **E05D 2003/027** (2013.01); **E05D 2007/0476** (2013.01); **E05D 2007/0492** (2013.01); **E05Y 2600/56** (2013.01); **E05Y 2600/622** (2013.01); **E05Y 2800/26** (2013.01); **E05Y 2900/132** (2013.01)

Citation (applicant)

US 8413299 B2 20130409 - BARTELS THOMAS [DE]

Citation (search report)

- [AD] US 2011232033 A1 20110929 - BARTELS THOMAS [DE]
- [A] EP 3266970 A1 20180110 - SIMONSWERK GMBH [DE]
- [A] DE 102015111308 B3 20160317 - SIMONSWERK GES MIT BESCHRÄNKTER HAFTUNG [DE]
- [A] US 2008104799 A1 20080508 - HOPPE CHRISTOPH [CH], et al

Cited by

EP4006278A1; EP4345236A1; EP4239151A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3680432 A1 20200715; **EP 3680432 B1 20220309**; **EP 3680432 B8 20220413**; ES 2912896 T3 20220530; SI 3680432 T1 20220729

DOCDB simple family (application)

EP 20151005 A 20200109; ES 20151005 T 20200109; SI 202030055 T 20200109