

Title (en)

MECHANICAL CONNECTING DEVICE FOR A SYSTEM THAT IS USED TO ATTACH ELEMENTS TO A STRUCTURE

Title (de)

MECHANISCHE VERBINDUNGSVORRICHTUNG FÜR EIN ZUR BEFESTIGUNG VON ELEMENTEN AN EINER KONSTRUKTION VERWENDETES SYSTEM

Title (fr)

DISPOSITIF DE LIAISON MECANIQUE POUR SYSTEME D'ATTACHE D'ELEMENTS SUR UNE STRUCTURE

Publication

**EP 1440219 B1 20120926 (FR)**

Application

**EP 02802235 A 20021023**

Priority

- FR 0203626 W 20021023
- FR 0114700 A 20011102

Abstract (en)

[origin: WO03038222A1] The invention relates to a system of attaching an element (2, 38) at at least one point thereof, particularly an element made from a fragile material such as glass, to a supporting structure or frame (7; 42). At at least one attachment point, the system comprises a mechanical connecting device (6; 33) which is used to: (i) fix an element (2; 38), particularly an element made from a fragile material such as glass, to a supporting structure or frame (7; 42); or (ii) connect to a similar adjacent element (2). Said mechanical connecting element comprises at least one arm (8A, 8B; 34, 35, 36) having: a first end (9A, 9B) which is connected to a fastening device (5A, 5B; 37) that is mechanically connected to the element (2; 38); and a second end (10A, 10B) which is connected to the core (11; 39), said core (11; 39) comprising a tubular casing (12; 40) that houses a mechanism for adjusting the degrees of freedom in relation to the fixing of the element or said connection. The invention also relates to a wall comprising at least one fixed (2) or opening (38) element which is fixed to a structure or frame (7; 42) using one such mechanical connecting device.

IPC 8 full level

**E06B 3/54** (2006.01); **E04B 2/72** (2006.01); **E06B 3/02** (2006.01)

CPC (source: EP KR US)

**E04B 2/88** (2013.01 - KR); **E06B 3/02** (2013.01 - EP KR US); **E06B 3/5436** (2013.01 - EP KR US); **E06B 3/5445** (2013.01 - EP KR US)

Citation (examination)

- DE 29705481 U1 19970703 - ZLATOMIR KRSTIN [DE]
- US 3760542 A 19730925 - HAEUSSLER E
- US 4761924 A 19880809 - GUSTAFSON HAROLD L [US]
- DE 20011379 U1 20000928 - TEMOTRANS BETEILIGUNGSGESELLSC [DE]
- DE 19645843 A1 19980520 - SCHMITT HORST HENRY [DE]

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 03038222 A1 20030508**; CN 1296597 C 20070124; CN 1582362 A 20050216; EP 1440219 A1 20040728; EP 1440219 B1 20120926; ES 2396055 T3 20130218; ES 2396055 T8 20130307; FR 2831932 A1 20030509; FR 2831932 B1 20041015; JP 2005507473 A 20050317; JP 4464134 B2 20100519; KR 101006408 B1 20110110; KR 20050039721 A 20050429; PL 208793 B1 20110630; PL 368720 A1 20050404; PT 1440219 E 20130115; US 2005055913 A1 20050317; US 7987643 B2 20110802

DOCDB simple family (application)

**FR 0203626 W 20021023**; CN 02821831 A 20021023; EP 02802235 A 20021023; ES 02802235 T 20021023; FR 0114700 A 20011102; JP 2003540473 A 20021023; KR 20047006578 A 20021023; PL 36872002 A 20021023; PT 02802235 T 20021023; US 49254304 A 20040930