

Title (en)
FIXING DEVICE

Title (de)
BEFESTIGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE FIXATION

Publication
EP 1481143 A2 20041201 (DE)

Application
EP 02781237 A 20021011

Priority
• DE 10150193 A 20011012
• EP 0211384 W 20021011

Abstract (en)
[origin: WO03033848A2] The invention concerns a fixing device for flat materials, in particular glass panes (16), which are fixed by force-closure and form-closure to profiled sections, angle sections, mobile strips, hinges or fittings. Therefor, it consists in producing in the glass pane (6) a through hole (18) in the form of a tapered hole (18, 19) or a stepped hole (23, 24). The tapered hole (18, 19) or the stepped hole (23, 24) houses an insert (5, 21, 22, 10, 28, 31) wherein is inserted a through screw, in particular a screw with cylindrical head (3) or a screw with truncated head, with a clearance all around to enable the glass pane to be adjusted before being fixed by force-closure.

IPC 1-7
E05D 5/02

IPC 8 full level
A47K 3/30 (2006.01); **E05D 5/02** (2006.01); **E06B 3/54** (2006.01)

CPC (source: EP)
A47K 3/30 (2013.01); **E05D 5/0246** (2013.01); **E06B 3/5436** (2013.01); **E05D 2005/0253** (2013.01); **E05Y 2900/114** (2013.01)

Citation (search report)
See references of WO 03033848A2

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 03033848 A2 20030424; WO 03033848 A3 20031224; AT E483881 T1 20101015; DE 10150193 C1 20030814; DE 50214704 D1 20101118;
EP 1481143 A2 20041201; EP 1481143 B1 20101006; ES 2352685 T3 20110222

DOCDB simple family (application)
EP 0211384 W 20021011; AT 02781237 T 20021011; DE 10150193 A 20011012; DE 50214704 T 20021011; EP 02781237 A 20021011;
ES 02781237 T 20021011