

Title (en)

METHOD AND DEVICE FOR ASSEMBLING INSULATING GLASS PANES FILLED WITH A GAS OTHER THAN AIR

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ZUSAMMENBAUEN VON ISOLIERGLASSCHEIBEN, DIE MIT EINEM VON LUFT VERSCHIEDENEN GAS GEFÜLLT SIND

Title (fr)

PROCEDE ET DISPOSITIF DE MONTAGE DE VITRES ISOLANTES REMPLIES D'UN GAZ AUTRE QUE L'AIR

Publication

**EP 1769130 B1 20110824 (DE)**

Application

**EP 05770236 A 20050705**

Priority

- EP 2005007219 W 20050705
- DE 102004032435 A 20040705

Abstract (en)

[origin: WO2006002975A1] Disclosed is a method for assembling insulating glass panes filled with a gas other than air. According to said method, - a first glass sheet (13) and a second glass sheet (14) that is provided with a spacer (38) are arranged in a vertical or inclined position so as to face each other without the first glass sheet (13) touching the spacer (38); - a chamber that encloses the intermediate space between the glass sheets (13, 14) is formed by disposing a belt (7) which seals the bottom of the chamber on the bottom edge of the glass sheet arrangement while at least one sealing device (22) is placed next to the protruding edges of the glass sheet arrangement, respectively, said sealing device (22) extending downward from a point located above the belt (7) to the belt (7) while forming a forward and a rear end of the chamber; - the gas that is different from air is introduced into the chamber from below and the insulating glass pane is closed by moving the glass sheets (13, 14) closer to each other after reaching a desired filling level. According to the invention, one of the two glass sheets (13) is kept at a distance from the belt (7) when the gas that is different from air is delivered, and the gas that is different from air is introduced into the chamber through a gap between the belt (7) and the bottom edge of the glass sheet (13) which is kept at a distance from the belt (7).

IPC 8 full level

**E06B 3/677** (2006.01)

CPC (source: EP US)

**E06B 3/54** (2013.01 - US); **E06B 3/6775** (2013.01 - EP US); **Y10T 156/17** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102004032435 A1 20060202**; **DE 102004032435 B4 20061221**; AT E521782 T1 20110915; EP 1769130 A1 20070404; EP 1769130 B1 20110824; US 2007295441 A1 20071227; US 2014096912 A1 20140410; US 8632648 B2 20140121; US 9677319 B2 20170613; WO 2006002975 A1 20060112

DOCDB simple family (application)

**DE 102004032435 A 20040705**; AT 05770236 T 20050705; EP 05770236 A 20050705; EP 2005007219 W 20050705; US 201314108917 A 20131217; US 63153105 A 20050705