

Title (en)
SYSTEM AND METHOD OF MOUNTING, SEALING AND THERMAL INSULATION OF WINDOWS, FACADES AND DOORS PROFITABLY IN THE WARMING ZONE

Title (de)
SYSTEM UND VERFAHREN ZUM NUTZBRINGENDEN MONTIEREN, ABDICHTEN UND WÄRMEISOLIEREN VON FENSTERN, FASSADEN UND TÜREN IN EINEM AUFWÄRMBEREICH

Title (fr)
SYSTÈME ET PROCÉDÉ DE MONTAGE, D'ÉTANCHÉITÉ ET D'ISOLATION THERMIQUE DE FENÊTRES, DE FAÇADES ET DE PORTES DE MANIÈRE RENTABLE DANS LA ZONE DE CHAUFFE

Publication
EP 3119971 A2 20170125 (EN)

Application
EP 14806743 A 20140905

Priority
• PL 40756714 A 20140317
• PL 2014000101 W 20140905

Abstract (en)
[origin: WO2015142201A2] In the developed system of mounting, sealing and thermal insulating of windows, facades and doors (out of PVC, aluminium or wood) favourably in the building warming zone, basic elements are beams (1) (with various cross sections) with anchors (2) embedded into them, which are placed around window hole. We have foreseen a possibility of using various types of anchors (2), with trebly resolved joints, which can be: stiff joints (3), hinged joints (4) or relatively extending elements (5), wherein each of anchors (2) described above has an option to use chunk (6) made out of plastic material or metal or wood or out of other hard material which is cut out and has any shape, and also with an option with a chunk (6) made out of plastic material or metal or other hard material, which is extruded and has any shape, wherein chunks (6) are embedded in the beam (1). Anchors (2) are placed in the beam (1) so to say in two rows. Configuration of the joints and extending elements (5) in the anchor (2) is free, however always - if it is hinged joint (4) then after its deployment, and if its extending element (5) after its protrusion - peripheral parts of the anchor (2) from one of the rows are mounted in the window hole, and from the other row are mounted to the wall (7). In not embedded parts of the anchors - independently if they are outer parts of extending element (5), or hinged joint (4), or stiff joints (3) - there are favourably made two holes which can be oval, in which you put montage screws (9), then inserted by the anchor (2) to the wall (7), via triple nut (10) or double nut (11). Part of the anchor (2) that is embedded in the beam (1) - is at least one tube (16) made favourably out of plastic material or metal, allowing you to insert montage screw (15). After screwing the montage screw (15) the tube (16) is sealed and covered. In the developed method of mounting, sealing and thermal insulating of windows, facades and doors (out of PVC, aluminium or wood) favourably in the building warming zone, you do some steps in sequence - wherein the sequence can be changed. You start from dismantling the window sash, then you measure lower beam (1a) to the width of window subtracted by 10mm and you cut the beam (1a). Then you measure two beams (1b and 1c) to the height of the window adding thickness of the beam (1a) to it and subtracting 5mm from it, then you cut it, wherein beam (1b and 1c) will be placed on the sides of window hole. After that you measure a width of the window adding two thicknesses of the beam (1b and 1c) to it and then you cut the beam (1d). Next part of the montage is done according to one of the schemes: described elements which are two beams (1a and 1b and 1c and 1d) are precisely joined together keeping in mind that you need to keep 90 degree angle, forming an "L" shape, described elements which are three beams (1a and 1b and 1c) precisely joined together keeping in mind that you need to keep 90 degree angle, forming an "U" shape or described elements which are four beams (1a and 1b and 1c and 1d) precisely joined together, keeping in mind that you need to keep 90 degree angle, forming an "O" shape. Module joined like that is then leveled and set vertically. After that you secure it with montage screw (9) to the wall (7), on the window hole, or in it, then using montage screws (15) it is secured to the window frame, relatively in the reverse order described order: is joined together using screws (15) with window frame, then it is being leveled and placed vertically, after that you secure it inside window hole, on it, or to the wall using montage screws (9), wherein in both cases, if module described like that is missing one beam (1c or 1d) - that beam (1c or 1d) is added and joined with wall (7), window frame and window hole. During that step you favorably precisely level it and check whether it is vertical, you make sure that is secured properly using washer (12) and triple nut (11), relatively double nut (10), tube (16), through which screws (15) were moved in are sealed.

IPC 8 full level
E06B 1/60 (2006.01); **E06B 1/02** (2006.01)

CPC (source: EP)
E06B 1/6015 (2013.01); **E06B 1/02** (2013.01)

Citation (search report)
See references of WO 2015142201A2

Cited by
EP3150790A1

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)
WO 2015142201 A2 20150924; WO 2015142201 A3 20151112; EP 3119971 A2 20170125; EP 3119971 B1 20180711; PL 225701 B1 20170531; PL 3119971 T3 20190131; PL 407567 A1 20150928

DOCDB simple family (application)
PL 2014000101 W 20140905; EP 14806743 A 20140905; PL 14806743 T 20140905; PL 40756714 A 20140317