

Title (en)
Multi-part Insulation fastener

Title (de)
Mehrteiliger Dämmstoffhalter

Title (fr)
Fixation à pièces multiples pour panneaux d'isolation

Publication
EP 1693530 B2 20130724 (DE)

Application
EP 06000657 A 20060113

Priority
DE 202005002534 U 20050217

Abstract (en)
[origin: EP1693530A1] The fixation unit has a tubular shaft (2) at whose end a holding plate (3) is provided, where the plate overlaps an insulating plate externally. A two-part tie rod (4) includes a screw (5), an extension unit (6), and a coupling unit (7) which connects the screw with the extension unit in a torque-proof manner for torque transmission. The screw is made of metal and the extension unit is made of plastic.

IPC 8 full level
E04F 13/08 (2006.01); **F16B 13/06** (2006.01); **F16B 13/12** (2006.01); **F16B 35/04** (2006.01)

CPC (source: EP)
E04B 1/7633 (2013.01); **E04F 13/0835** (2013.01)

Citation (opposition)
Opponent :

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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)
EP 1693530 A1 20060823; EP 1693530 B1 20100804; EP 1693530 B2 20130724; AT E476566 T1 20100815; CN 1821527 A 20060823; DE 202005002534 U1 20060629; DE 502006007567 D1 20100916; PL 1693530 T3 20110131; PL 1693530 T5 20131231; RU 2006104818 A 20070827; RU 2396395 C2 20100810

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