

Title (en)  
Cladding

Title (de)  
Verkleidung

Title (fr)  
Revêtement

Publication  
**EP 1333131 A1 20030806 (EN)**

Application  
**EP 03250565 A 20030130**

Priority  
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Abstract (en)  
Inner and outer membranes (5,1) of a roof- or wall-cladding system are carried by two sets of rails (6,2) which are spaced apart by sheet-metal brackets (11) that are coupled in series with heat-insulating spacer blocks (10). Each bracket (11) is of inverted top-hat cross-section with its cross-web (18) clamped through one, or a pair, of the blocks (10) to a purlin (6) or other rail supporting the inner membrane (5), and with its flanges (19) clamped to a rail (2) supporting the outer membrane (1). Each spacer block (10) is of an elongate form with lengthwise bores (17) for the clamping screws or bolts. The bracket-web (18) is notched and slots under a tab (14) of the spacer block (10) with its notch (20) engaged with a pillar-support (16) of the tab (14). An alternative form of block (50) has a short tab (59) that is inserted through an opening (62) through the web (61) to hook the bracket (60) and block (50) together before the screws or bolts are inserted for clamping. <IMAGE>

IPC 1-7  
**E04D 13/16**

IPC 8 full level  
**E04C 3/294** (2006.01); **E04D 13/16** (2006.01); **E04F 13/08** (2006.01)

CPC (source: EP)  
**E04D 3/3602** (2013.01); **E04D 13/165** (2013.01); **E04F 13/0805** (2013.01)

Citation (search report)  
• [X] WO 9954569 A1 19991028 - WARD BUILDING COMPONENTS LIMIT [GB], et al  
• [X] FR 2615552 A1 19881125 - GISSINGER BERNARD [FR], et al  
• [A] EP 0119114 A2 19840919 - THEVENIN PATRICK D [FR], et al  
• [A] GB 2340140 A 20000216 - FIRTH STEELS LIMITED [GB]

Cited by  
EP2746489A1; CN103635639A; ITPG20120044A1; CN103608532A; US6851695B2; EP1645698A1; CN105986631A; FR3000120A1; US10385583B2; US8769901B2; US9027304B2; WO2006037324A1; WO2012134773A1; US9790680B2; US9951511B2; US10138647B2; US10036159B2; US10570614B2

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