

Title (en)
BUILDING PANEL SYSTEM

Title (de)
BAUPLATTENSYSYSTEM

Title (fr)
SYSTÈME DE PANNEAU DE CONSTRUCTION

Publication
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Application
EP 12840496 A 20120725

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Abstract (en)
[origin: WO2013055428A2] A building panel structure is disclosed, in which building panels are used to form a structure. The building panel includes a core and a coating covering a portion of the core. In some embodiments the core consists of a frame and one or more than one insulating structural block. The insulating structural blocks can be encapsulated polystyrene (EPS) foam blocks. In some embodiments the coating includes an inner scratch layer and an outer main brown layer. The inner scratch layer can be formed of at least two layers and a fiberglass mesh. The outer main brown layer can include a fiberglass mesh embedded into the outer main brown layer. A coating/frame coupler is disclosed which securely couples the coating to the frame so that the building panel remains strong and stable even if the EPS foam blocks are melted or damaged in extreme conditions such as a fire.

IPC 8 full level
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Citation (search report)
• [X] WO 2011006266 A1 20110120 - STONE TREUHAND AG [CH], et al
• [XYI] US 7681368 B1 20100323 - RUBIO EDWARD [US]
• [Y] US 2011173911 A1 20110721 - PROPST JOHN EUGENE [US]
• [A] US 4193240 A 19800318 - ODOERFER HANS F [CA]
• See references of WO 2013055428A2

Designated contracting state (EPC)
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WO 2013055428 A2 20130418; **WO 2013055428 A3 20130620**; AR 087310 A1 20140312; BR 112014001650 A2 20170221; CA 2842686 A1 20130418; CN 103717813 A 20140409; CO 6862122 A2 20140210; EP 2737139 A2 20140604; EP 2737139 A4 20160316; JP 2014524998 A 20140925; KR 20140050632 A 20140429; MX 2013014268 A 20140922; NI 201400001 A 20141125; PE 20141924 A1 20141201; TW 201323692 A 20130616

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