

Title (en)  
FIRE RESISTANT CONSTRUCTION PANEL ELEMENT SYSTEM

Title (de)  
FEUERBESTÄNDIGES BAUPLATTENELEMENTSYSTEM

Title (fr)  
SYSTÈME D'ÉLÉMENT DE PANNEAU DE CONSTRUCTION RÉSISTANT AU FEU

Publication  
**EP 3239423 A1 20171101 (EN)**

Application  
**EP 17168458 A 20170427**

Priority  
SE 1650571 A 20160429

Abstract (en)  
The present invention relates to a fire resistant construction panel system (1), comprising at least a first and a second panel element (9a, 9b). Each panel element comprises a first face sheet (10a, 10b) and a second face sheet (11a, 11b), adapted to lend stability to the construction panel. The panel element further comprises an insulating core layer (12a, 12b) arranged between the first and the second face sheet. The first face sheet, the second face sheet and the core layer together form a sandwich-type construction panel, and at least one of the first and the second face sheet consists of a fireproof material. The construction panel system further comprises a connector element (16), adapted to be received in corresponding at least one groove (24). The groove is arranged in a longitudinal direction along a rim of the respective core layers. The connector element, when provided in the groove, joins the panel elements together. The connector element is made from a fire resistant material. The invention further relates to a method of forming a wall using the system.

IPC 8 full level  
**E04B 1/94** (2006.01); **E04B 1/61** (2006.01)

CPC (source: EP SE)  
**E04B 1/6145** (2013.01 - SE); **E04B 1/6158** (2013.01 - SE); **E04B 1/942** (2013.01 - EP SE); **E04C 2/292** (2013.01 - SE); **E04C 2/296** (2013.01 - SE); **E04B 1/6145** (2013.01 - EP); **E04B 2/7403** (2013.01 - SE); **E04B 2/7411** (2013.01 - SE)

Citation (search report)  
• [XII] US 2009293396 A1 20091203 - PORTER WILLIAM H [US]  
• [XI] WO 9738178 A1 19971016 - TARABA EMIL M [CA], et al

Cited by  
EP3924565A4; US11739547B2; WO2024015355A1; US11591789B2; US11718984B2; US11821196B2

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)  
**EP 3239423 A1 20171101**; SE 1650571 A1 20171030

DOCDB simple family (application)  
**EP 17168458 A 20170427**; SE 1650571 A 20160429