

Title (en)

IMPROVED COMPOSITE CONCRETE AND FRAMING SYSTEM AND METHOD FOR BUILDING CONSTRUCTION

Title (de)

VERBESSERTES ZUSAMMENGESETZTES BETON- UND RAHMENWERKSYSTEM SOWIE VERFAHREN ZUM ERRICHTEN EINES GEBÄUDES

Title (fr)

BÉTON COMPOSITE AMÉLIORÉ ET SYSTÈME ET PROCÉDÉ D'OSSATURE POUR CONSTRUCTION DE BÂTIMENT

Publication

EP 2909391 A4 20160727 (EN)

Application

EP 13833444 A 20130827

Priority

- US 201213597620 A 20120829
- US 2013056730 W 20130827

Abstract (en)

[origin: WO2014035926A2] A composite building construction system comprising a frame, an expanded wallboard, and a concrete layer. The wallboard comprises an outer portion and inset portion wherein the wallboard is attached to the frame with the outer portion covering an exterior side of the frame and the inset portion is disposed within the frame. The wallboard thus provides exterior and interior insulation for the system. The concrete layer is sprayed on to the outer portion of said wallboard, forming a strong durable composite construction system. One or more rebar supports may be attached to the frame at the exterior side by key bolts and are spaced apart from the wallboard. A wire grid may be attached to the key bolts whereby the grid and the rebar supports provide a support structure for the concrete layer. The frame comprises steel and the wallboard comprises insulative expanded polystyrene.

IPC 8 full level

E04B 2/84 (2006.01); **E04B 1/16** (2006.01); **E04C 2/38** (2006.01)

CPC (source: EP)

E04B 2/845 (2013.01); **E04B 2/847** (2013.01); **E04C 2/288** (2013.01); **E04C 2/384** (2013.01); **E04C 2/521** (2013.01); **E04B 1/16** (2013.01)

Citation (search report)

- [XII] US 8065846 B2 20111129 - MCDONALD FRANK [US], et al
- [IA] US 2010307089 A1 20101209 - COX JAMES EDWARD [US]
- See references of WO 2014035926A2

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

DOCDB simple family (publication)

WO 2014035926 A2 20140306; **WO 2014035926 A3 20150730**; AU 2013309041 A1 20150416; AU 2017258845 A1 20171130; AU 2017258845 B2 20190725; CA 2886517 A1 20140306; CA 2886517 C 20210706; CY 1122743 T1 20210312; EP 2909391 A2 20150826; EP 2909391 A4 20160727; EP 2909391 B1 20191009; ES 2762852 T3 20200526

DOCDB simple family (application)

US 2013056730 W 20130827; AU 2013309041 A 20130827; AU 2017258845 A 20171107; CA 2886517 A 20130827; CY 191101353 T 20191223; EP 13833444 A 20130827; ES 13833444 T 20130827