

Title (en)
SANDWICH WALL CONSTRUCTION FORMED OF SPACED-APART SLABS WITH INSULATION IN-BETWEEN HAVING A HIGH CARBON CONTENT

Title (de)
SANDWICHWANDKONSTRUKTION AUS BEABSTANDETEN PLATTEN MIT DAZWISCHENLIEGENDER ISOLATION, DIE EINEN HOHEN KOHLENSTOFFANTEIL BESITZT

Title (fr)
CONSTRUCTION DE PAROI EN SANDWICH COMPOSÉE DE PLAQUES ESPACÉES COMPRENANT ENTRE ELLES UNE ISOLATION POSSÉDANT UNE HAUTE TENEUR EN CARBONE

Publication
EP 3953538 A1 20220216 (DE)

Application
EP 20702566 A 20200106

Priority
• DE 202019000008 U 20190106
• EP 2020000001 W 20200106

Abstract (en)
[origin: CA3125687A1] The invention relates to a weight-bearing wall element for buildings, comprising two symmetrically arranged carrier slabs (1) made of stone, natural stone, artificial stone, ceramic, concrete, glass or glass-containing material, referred to as stoneware, wherein a cross-section-increasing layer made of insulation material (3) is introduced between the two carrier slabs in an either entirely or partially shear-resistant or loose form or both in a shear-resistant and loose form, wherein the carrier slabs (1) are stabilised with a fibre-containing matrix based on epoxy resin, polyester resin, phenolic resin, polyamide resin, cyanate-ester resin, melamine resin, polyurethane resin, silicon resin or silica resin, or based on ceramic or water glass, arranged on one side or in the centre of the stoneware layer. The weight-bearing wall element has a load application construction (4) at the top and bottom, which is connected to the carrier slabs (1) via permanent shear-resistant bonds, wherein the cross-section-increasing insulation layer (3) consists of a material containing carbon and wherein the two carrier slabs consist of different or similar slab materials.

IPC 8 full level
E04C 2/296 (2006.01); **E04C 2/288** (2006.01)

CPC (source: EP US)
B32B 3/10 (2013.01 - US); **B32B 5/18** (2013.01 - US); **B32B 7/12** (2013.01 - US); **B32B 9/002** (2013.01 - US); **B32B 9/005** (2013.01 - US); **B32B 9/046** (2013.01 - US); **B32B 13/02** (2013.01 - US); **B32B 13/045** (2013.01 - US); **B32B 13/12** (2013.01 - US); **B32B 17/066** (2013.01 - US); **B32B 27/065** (2013.01 - US); **B32B 27/20** (2013.01 - US); **E04C 2/288** (2013.01 - US); **E04C 2/2885** (2013.01 - EP); **E04C 2/296** (2013.01 - EP); **E04C 2/46** (2013.01 - US); **B32B 2260/021** (2013.01 - US); **B32B 2260/046** (2013.01 - US); **B32B 2266/04** (2013.01 - US); **B32B 2266/057** (2016.10 - US); **B32B 2307/304** (2013.01 - US); **B32B 2307/54** (2013.01 - US); **B32B 2419/00** (2013.01 - US)

Citation (search report)
See references of WO 2020141185A1

Cited by
DE202021001119U1

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)
DE 202019000008 U1 20190529; CA 3125687 A1 20200709; CN 113728143 A 20211130; EP 3953538 A1 20220216; JP 2022516659 A 20220301; US 2022106789 A1 20220407; WO 2020141185 A1 20200709

DOCDB simple family (application)
DE 202019000008 U 20190106; CA 3125687 A 20200106; CN 202080016454 A 20200106; EP 2020000001 W 20200106; EP 20702566 A 20200106; JP 2021539616 A 20200106; US 202017420910 A 20200106