

Title (en)
Slab element

Title (de)
Deckenelement

Title (fr)
Élément de dallage

Publication
EP 2752528 A1 20140709 (EN)

Application
EP 13150286 A 20130104

Priority
EP 13150286 A 20130104

Abstract (en)
The slab element comprises a surface plate (10), a bottom plate (12) and an insulation layer (14) between the surface plate and the bottom plate. The surface plate has gripping members (16) for gripping a concrete casting. The slab element can be used as a structural part of steel-concrete composite slabs, where the slab element during the concrete casting forms a mould surface beneath the slab and after the hardening of the concrete a fixed part of the composite slab. The insulation layer has at least one elongated tensile stress member (36), such as a wire or a bar, which increases the bending strength of the slab element. The first and/or second end of the tensile stress member can have a tightening member for producing tensile stress in the tensile stress member. With the aid of the tensile stress member a compression stress can be formed in the lower edge of the slab element, which compression stress makes the slab element curve upwards. A pre-elevation can thus be produced in the slab element before the concrete is cast, which pre-elevation can compensate for the bending caused by the concrete mass set onto the slab element.

IPC 8 full level
E04B 5/40 (2006.01)

CPC (source: EP)
E04B 5/40 (2013.01)

Citation (applicant)

- WO 2008041251 A1 20080410 - METECNO SPA [IT], et al
- FI 119604 B 20090115 - RAUTARUUKKI OYJ [FI]
- FI 61066 B 19820129 - HOME MATTI
- WO 2009010994 A1 20090122 - METECNO SPA [IT], et al

Citation (search report)

- [XYI] US 3810337 A 19740514 - POLLARD S
- [X] DE 2116069 A1 19721012
- [Y] GB 2429219 A 20070221 - KINGSPAN RES & DEV LTD [IE]
- [AD] WO 2009010994 A1 20090122 - METECNO SPA [IT], et al

Cited by
CN109689987A; AU2017293646B2; WO2018006118A1; US11339561B2; US11746520B2

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 2752528 A1 20140709

DOCDB simple family (application)
EP 13150286 A 20130104