

Title (en)

Modularized contact type of conductive building block

Title (de)

Modularisierter leitfähiger Kontaktbaustein

Title (fr)

Type de contact modularisé de bloc de construction conducteur

Publication

EP 2818219 A1 20141231 (EN)

Application

EP 13186919 A 20131001

Priority

CN 201310267961 A 20130628

Abstract (en)

A building block includes: a brick, at least one pair of conductive pieces, a circuit board and a base. The brick includes at least one pair of studs projected from a top thereof. A stud hole penetrates through each stud. Each stud hole has only one conductive piece disposed therein. The conductive piece has an insertion electrode, a contact electrode and a connection electrode. The conductive piece is pressed against the brick by itself or by an insulating piece. The circuit board is pressed against the contact electrode of the conductive piece, the base is pressed against the circuit and the base is fixed in the brick. The circuit board includes a positive electrode circuit and a negative electrode circuit respectively contacted with the at least one pair of the conductive pieces and a functional unit electrically connected with both electrode circuits.

IPC 8 full level

A63H 33/04 (2006.01)

CPC (source: BR EP KR)

A63H 5/00 (2013.01 - KR); **A63H 29/22** (2013.01 - KR); **A63H 33/04** (2013.01 - KR); **A63H 33/042** (2013.01 - BR EP); **A63H 33/08** (2013.01 - KR)

Citation (applicant)

TW M408402 U 20110801 - LIN JIA-YAN [TW]

Citation (search report)

- [E] EP 2722087 A1 20140423 - LIN CHIA-YEN [CN]
- [A] US 2013109268 A1 20130502 - LIN CHIA-YEN [CN]
- [A] US 5908328 A 19990601 - CHEN CHIN-YI [TW]
- [A] US 2009047863 A1 20090219 - CAPRIOLA JON [US]
- [A] WO 8601342 A1 19860227 - INTERLEGO AG [CH], et al
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EP3187237A1; EP3435488A1; EP4109436A1

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 2818219 A1 20141231; AU 2013237742 A1 20150129; BR 102013027804 A2 20150908; CA 2829582 A1 20141228; CA 2829582 C 20150609; CN 104248855 A 20141231; CN 104248855 B 20160511; CN 203540071 U 20140416; KR 101528679 B1 20150612; KR 20150002413 A 20150107; MX 2013012554 A 20141229; RU 2013145415 A 20150420; RU 2552973 C2 20150610; WO 2014205964 A1 20141231

DOCDB simple family (application)

EP 13186919 A 20131001; AU 2013237742 A 20131007; BR 102013027804 A 20131029; CA 2829582 A 20131007; CN 2013085431 W 20131018; CN 201310492749 A 20131018; CN 201320645599 U 20131018; KR 20130129197 A 20131029; MX 2013012554 A 20131025; RU 2013145415 A 20131010