

Title (en)

ELECTRICALLY CONDUCTIVE BUILDING BLOCKS WITH ANTI-SYMMETRIC CONTACT MECHANISMS

Title (de)

ELEKTRISCH LEITFÄHIGE BAUSTEINE MIT ANTISYMMETRISCHEN KONTAKTMECHANISMEN

Title (fr)

BLOCS DE CONSTRUCTION ÉLECTROCONDUCTEURS DOTÉS DE MÉCANISMES DE CONTACT ANTI-SYMÉTRIQUES

Publication

EP 4232176 A1 20230830 (EN)

Application

EP 21882334 A 20211024

Priority

- US 202063105315 P 20201025
- IL 2021051258 W 20211024

Abstract (en)

[origin: WO2022085010A1] The invention herein discloses a system including building blocks intended for educational, amusement or functional use of assembling into mechanical and electro-mechanical constructions. The building blocks are electrically conductive and have an electrical connector with an asymmetry property around one of the main, or natural, assembly planes. The asymmetric properties allow the connector to maintain high electrical conductance when assembled near an adjacent building block, without harming the building blocks physically and without requiring complex assembly rules and restrictions. The system can present rotational symmetry of 180 degrees, and can present elastic properties or magnetic properties to further increase the conductivity and durability of the connectors.

IPC 8 full level

A63H 33/04 (2006.01); **A63H 33/08** (2006.01)

CPC (source: EP US)

A63H 33/042 (2013.01 - EP US); **A63H 33/046** (2013.01 - EP US); **A63H 33/08** (2013.01 - EP); **A63H 33/086** (2013.01 - EP US)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022085010 A1 20220428; EP 4232176 A1 20230830; US 2023390662 A1 20231207

DOCDB simple family (application)

IL 2021051258 W 20211024; EP 21882334 A 20211024; US 202118032929 A 20211024