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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD,

(54) Title: BUILDING BLOCK PIECE AND BUILDING BLOCK

(54) 发明名称: 积木片以及积木

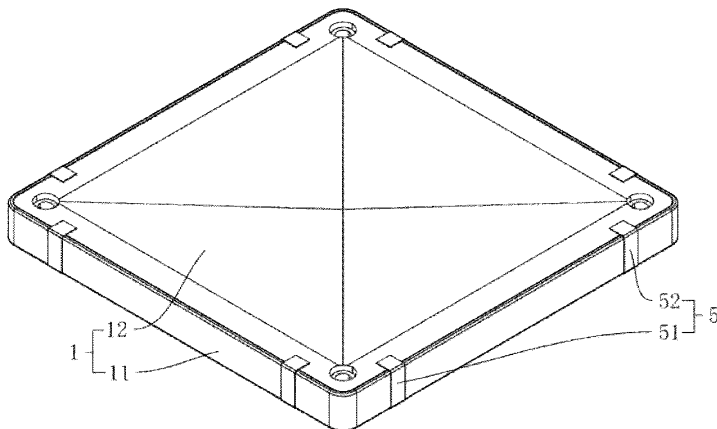


图 1

(57) Abstract: Provided in the present invention are a building block piece and a building block. The building block piece comprises a housing, an electrical connection assembly and a functional assembly. The electrical connection assembly comprises a positive electrode conductive frame, a positive electrode, a negative electrode conductive frame and a negative electrode. The functional assembly is in contact with the positive electrode frame and the negative electrode frame to achieve electrical connection. The positive electrode and the negative electrode are exposed respectively by means of corresponding openings on the housing, so that after a plurality of building block pieces are assembled with each other, the electrical connection among the plurality of building block pieces can be achieved by means of contact between the positive electrodes and the negative electrodes of the plurality of building block pieces. Electrical components in each building block are powered by the positive electrode conductive frame and the negative electrode conductive frame, so as to reduce or even eliminate the use of conductive wires, and accordingly, reduce or eliminate the use of electrical contacts such as solder joints. Therefore, the internal electrical connection structure of the building block piece is simple and reliable. Even if there is a collision, fall, etc. during playing, the electrical connection structure is not prone to failure. The building block pieces are also easier to assemble, so that the production efficiency can be improved.

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WO 2026/086364 A1

SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UY, UZ, VC, VN, WS, ZA, ZM, ZW。

(84) 指定国(除另有指明, 要求每一种可提供的地区
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PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN,
TD, TG)。

根据细则4.17的声明:

- 关于发明人身份(细则4.17(i))
- 关于申请人有权申请并被授予专利(细则4.17(ii))
- 关于申请人有权要求在先申请的优先权(细则
4.17(iii))
- 发明人资格(细则4.17(iv))

本国际公布:

- 包括国际检索报告(条约第21条(3))。
- 在修改权利要求的期限届满之前进行, 在收到该
修改后将重新公布(细则48.2(h))。
- 根据申请人的请求, 在条约第21条(2)(a)所规定的
期限届满之前进行。

(57) 摘要: 本发明提供一种积木片以及积木, 该积木片具有壳体、电连接组件以及功能组件, 由于电连接组件包括正极导电框、正电极、负极导电框、负电极, 功能组件分别与正负电极框接触以实现电连接, 并且正电极、负电极分别通过壳体上相应的缺口露出, 因此多个积木片相互拼接之后, 能够通过其正负电极的接触来实现相互之间的电连接, 每个积木片中的电部件通过正负极导电框来供电, 能够减少甚至完全不使用导线, 相应地也能够减少甚至避免焊点等电触点, 因此该积木片内部电连接结构简洁可靠, 即使在玩乐过程中有磕碰、摔落等情况, 电连接结构也不易出现故障, 并且也使得该积木片更易于装配, 能够提高生产效率。