

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 August 2023 (10.08.2023)



(10) International Publication Number
WO 2023/148609 A1

(51) International Patent Classification:
E04B 1/61 (2006.01) *F16B 5/00* (2006.01)

(21) International Application Number:
PCT/IB2023/050826

(22) International Filing Date:
31 January 2023 (31.01.2023)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
102022000001772 02 February 2022 (02.02.2022) IT

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(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): 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, MW, MX, MY, MZ, NA, NG,
NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS,
RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,

(54) Title: IMPROVED SYSTEM OF COUPLABLE PREFABRICATED PANELS FOR BUILDING

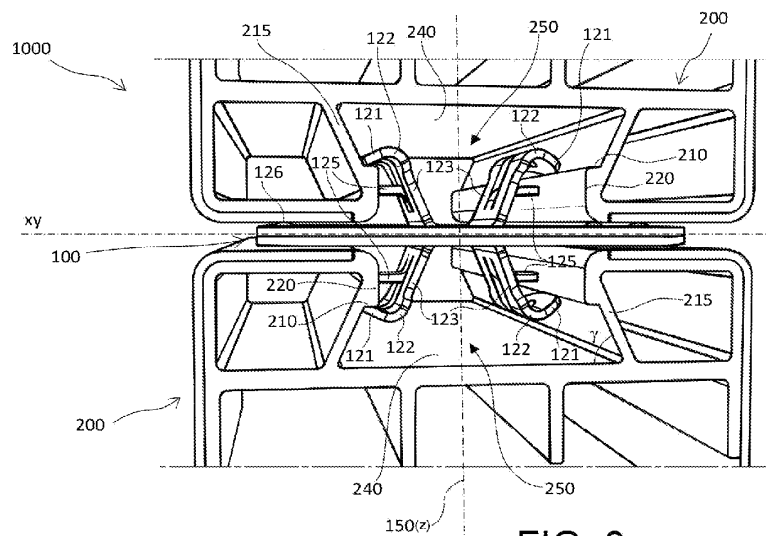


FIG. 8

(57) **Abstract:** The present invention relates to an improved system (1000) of prefabricated building panels (200) couplable by means of a coupling device (100; 300) which is inserted and rotationally engaged in grooves (250) with dovetail-shaped cross sections. Each groove has, on the oblique sides, two mutually facing steps (210, 220) which are engaged by elements of the coupling device (100; 300). Such a coupling device comprises a coupling element (120; 320) consisting of a first (120A; 320A) and a second (120B; 320B) tapered element with height along a vertical axis (z; 150; 350). The tapered elements (120A, 120B; 320A, 320B) are symmetrical with respect to a plane xy perpendicular to the vertical axis (z; 150; 350). In addition to the coupling element (120; 320), the coupling device comprises a foil key (110; 310) fast connected to the coupling element (120; 320) and extending along the first reference plane xy. It is configured to rotate said coupling element (120; 320) from an unconstrained rest position, in which each tapered element is inserted into a respective groove (250), to a locked position, in which each tapered element is inserted into the respective groove (250) in such a position that each tapered element is constrained to the respective groove along said vertical axis (z; 150; 350), and vice versa. To this

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TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, 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).

Published:

- *with international search report (Art. 21(3))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*

purpose, the coupling element (120; 320) is made of metal, in particular sheet metal, and each tapered element comprises a first wing and a second wing (121, 122, 123, 125; 321, 322, 323) being symmetrical with respect to the second reference plane yz and extending along said vertical axis (z; 150; 350) with such ends as to engage with said steps.