

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 December 2021 (02.12.2021)



(10) International Publication Number
WO 2021/237275 A1

(51) International Patent Classification:

E04B 2/56 (2006.01) *E04B 1/00* (2006.01)
E04B 5/02 (2006.01) *E04B 2/00* (2006.01)
E04B 1/41 (2006.01) *E04B 5/00* (2006.01)

(21) International Application Number:

PCT/AU2021/050487

(22) International Filing Date:

24 May 2021 (24.05.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2020901731 27 May 2020 (27.05.2020) AU

(71) Applicant: **NXT BUILDING SYSTEM PTY LTD**
[AU/AU]; 41 Mordaunt Circuit, Canning Vale, Western
Australia 6155 (AU).

(72) Inventor: **LIM, Matakii**; 41 Mordaunt Circuit, Canning
Vale, Western Australia 6155 (AU).

(74) Agent: **NORTHERN LIGHTS IP**; PO Box 1201, EAST
VICTORIA PARK, Western Australia 6981 (AU).

(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, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,

(54) Title: A BUILDING SYSTEM FOR ERECTING A BUILDING STRUCTURE

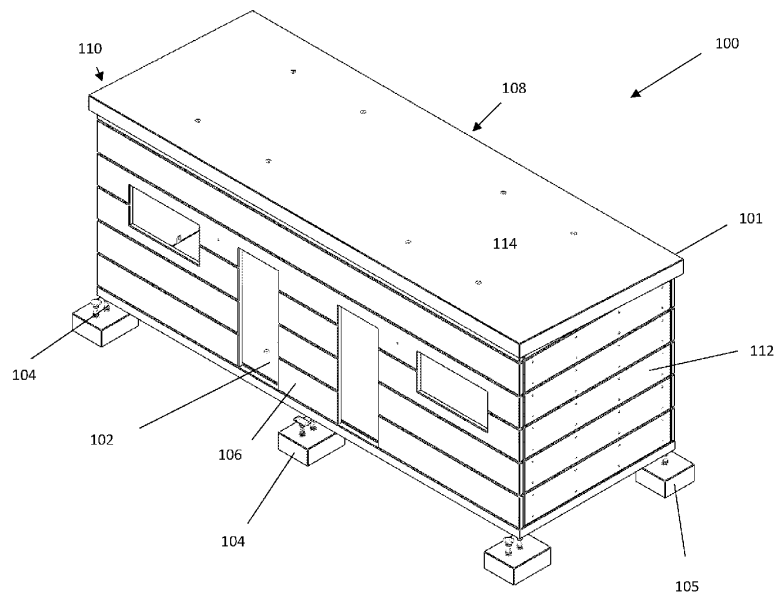


Figure 1

(57) **Abstract:** The present invention relates to a building system for erecting a building structure. The building system comprises a plurality of precast transportable concrete wall panels; each wall panel comprising a reinforcement structure and a plurality of cast-in connecting inserts, each connecting insert being located at a predetermined position; and a precast transportable concrete floor panel, the floor panel also comprising a reinforcement structure and a plurality of cast-in connecting inserts, each being located at a predetermined position, the floor panel further comprising a recess along at least a portion of a perimeter of the floor panel. The building system is configured such that when each precast wall panel is positioned in a substantially upright position in the recess of the floor panel, connecting inserts of two adjacent panels align so that the panels can be connected using a plurality of mechanical fasteners.

[Continued on next page]



WO 2021/237275 A1

SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, 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, 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, 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))