

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 March 2022 (24.03.2022)



(10) International Publication Number
WO 2022/060291 A1

(51) International Patent Classification:

F16M 1/00 (2006.01) *F16C 29/00* (2006.01)
H02K 41/02 (2006.01) *B65G 54/02* (2006.01)

(21) International Application Number:

PCT/SG2021/050459

(22) International Filing Date:

05 August 2021 (05.08.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202009051X 15 September 2020 (15.09.2020) SG

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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, 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: TUBE-IN-TUBE STRUCTURE FOR LINEAR MOTOR MACHINE

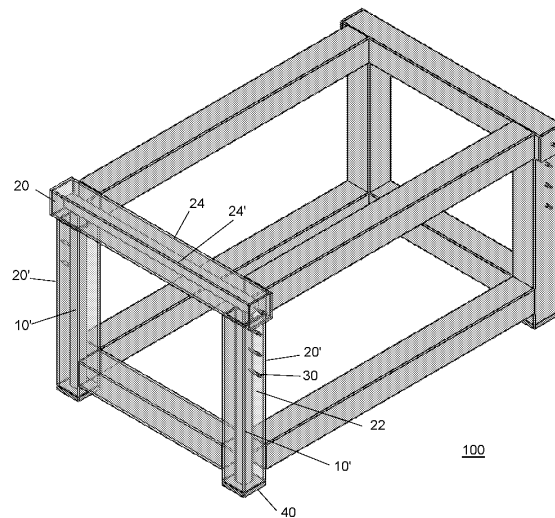


FIG. 1

(57) **Abstract:** A tube-in-tube structure (100) for linear motor machine is disclosed. The tube-in-tube structure comprises (a) an outer metrology frame (20) for responding to sustain a payload (50) and to allow moving of the payload (50) thereon; (b) an inner force frame (10) being enclosed within the hollow capacity (22) of the outer metrology frame (20) and responding to transfer any reaction force exerted by the payload (50) to the bottom of the inner force frame (10), wherein the bottom end of the inner force frame (10) is mounted to the bottom end of the outer metrology frame (20) and such mounting is located to the ground. The inner force frame (10) transfers any reaction force exerted by dynamic motion generated by the linear motor machine directly to the bottom of the inner force frame (10), thereby vibration due to the linear motor motion is thus minimized or settled.

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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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*