

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
25 February 2021 (25.02.2021)



(10) International Publication Number
WO 2021/034277 A1

(51) International Patent Classification:

B63B 35/44 (2006.01) *H02S 20/30* (2014.01)
B63B 35/38 (2006.01) *H02S 10/40* (2014.01)

(21) International Application Number:

PCT/TH2020/000039

(22) International Filing Date:

16 June 2020 (16.06.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10201907781X 22 August 2019 (22.08.2019) SG

(71) Applicant: **SCG CHEMICALS CO., LTD.** [TH/TH]; 1
Siam Cement Rd., Bangsue, Bangkok, 10800 (TH).

(72) Inventors: **HEH, Kok Boon**; 24, Canberra Drive, #10-12,
Singapore 768427 (SG), **PHUENGNOI, Natthawoot**;
23/27 Bella 3 Village Watkodhin-Khaopai Rd. Thum-

bon Thubma, Amphor Muang, Rayong Province, 21000
(TH), **PUNTURAUMPORN, Varith**; 391, Vanich 1
Rd., Samphanthawong District, Bangkok, 10100 (TH).
HEMPANON, Natthakarn; 422-424 Rama 2 Rd. Bang-
mod, Jomthong, Bangkok, 10150 (TH).

(74) Agent: **KRAIRIT, Poondej**; 942/142-3 Charn Issara Tow-
er 9th Floor, Rama IV Road, Suriyawongse, Bangrak,
Bangkok, 10500 (TH).

(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, 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, SA,

(54) Title: FLOATING ARRANGEMENT FOR SUPPORTING SOLAR PANELS

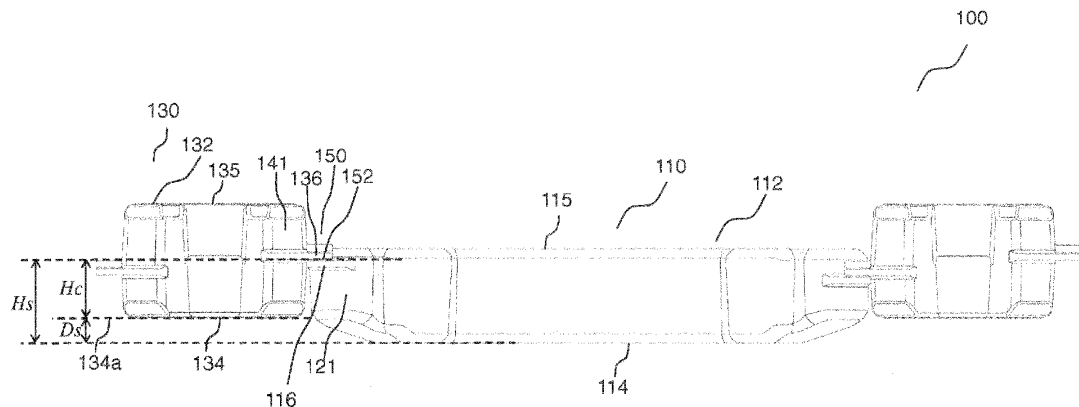


FIG. 1

(57) Abstract: A floating arrangement may include at least one support-floatation-unit for supporting a solar panel, the at least one support-floatation-unit has a main body having a flat base and at least one connection portion; and at least one connecting-floatation-unit having a flat base and at least one connection portion. The respective corner-connection-portion may be coupled together to form a connection joint connecting the support-floatation-unit and the connecting-floatation-unit in a side-by-side arrangement. A height from the base of the support-floatation-unit to the connection joint may be larger than a height from the base of the connecting-floatation-unit to the connection joint such that the base of the support-floatation-unit may extend downwards from the base of the connecting-floatation-unit by a depth which defines an additional displacement volume of the support-floatation-unit configured to provide additional buoyancy to support the solar panel.

[Continued on next page]

WO 2021/034277 A1

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:

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*