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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 March 2014 (13.03.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/037777 A1

(51) International Patent Classification:
F27D 5/00 (2006.01)

(21) International Application Number:
PCT/IB2013/001824

(22) International Filing Date:
20 August 2013 (20.08.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1202435 10 September 2012 (10.09.2012) FR

(71) Applicant: **SOITEC** [FR/FR]; Chemin des Franques, Parc Technologique des Fontaines, F-38190 Bernin (FR).

(72) Inventors: **GOURDEL, Christophe**; Les Bruns, F-38530 Saint Maximin (FR). **BARTHELEMY, Alexandre**; 16 rue Général Mangin, F-38100 Grenoble (FR).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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 applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *of inventorship (Rule 4.17(iv))*

[Continued on next page]

(54) Title: SUPPORT DEVICE FOR A PLURALITY OF WAFERS FOR A VERTICAL OVEN

(57) Abstract: This support device has a central axis and includes: - three uprights (130), (131) and (132) extending substantially parallel to the central axis, - a plurality of series of support members spaced along the central axis, each series of support members comprising three support members (140), (141) and (142) adapted to support one wafer (W) of the plurality of wafers and extending in different essentially longitudinal directions transverse to the central axis, each support member (140), (141) and (142) being mounted directly on a separate upright, this support device being remarkable in that the directions of the three support members (140), (141) and (142) of each series of support members (135) are concurrent at a point on the central axis.

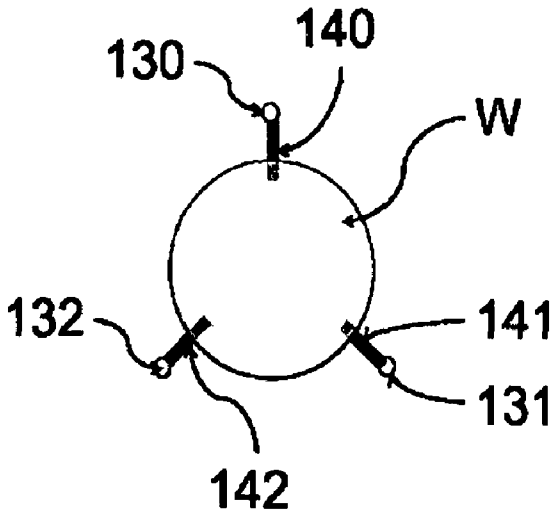

Fig. 3B

WO 2014/037777 A1

Published:

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