(12) International Application Status Report

Received at International Bureau: 09 January 2019 (09.01.2019)
Information valid as of: 08 June 2020 (08.06.2020)
Report generated on: 27 September 2020 (27.09.2020)

(10) Publication number:
WO2020/129230

(43) Publication date:
25 June 2020 (25.06.2020)

(26) Publication language:
Japanese (JA)

(21) Application Number:
PCT/JP2018/047163

(22) Filing Date:
21 December 2018 (21.12.2018)

(25) Filing language:
Japanese (JA)

(51) International Patent Classification:
C03C 21/00 (2006.01); ***C03C 10/02*** (2006.01)

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(54) Title (EN): CRYSTALLIZED GLASS SUBSTRATE

(54) Title (FR): SUBSTRAT DE VERRE CRISTALLISÉ

(54) Title (JA): 結晶化ガラス基板

(57) Abstract:

(EN): A crystallized glass substrate having a compressive stress layer on its surface, wherein where a depth at which the surface compressive stress of the compressive stress layer becomes 0 MPa is defined as a stress depth DOLzero, a gradient A of the surface compressive stress at a depth of 6 μm from the outermost surface in the compressive stress layer is 50.0-110.0 MPa/μm, a gradient B of the surface compressive stress from a depth of (the stress depth DOLzero - 10 μm) to the stress depth DOLzero is 2.5-15.0 MPa/μm, and a hardness at the indentation depth of the outermost surface of 20 nm is 7.50-9.50 GPa.

(FR): L'invention concerne un substrat de verre cristallisé présentant une couche de contrainte de compression sur sa surface, où, lorsqu'une profondeur à laquelle la contrainte de compression de surface de la couche de contrainte de compression devient 0 MPa est définie comme étant une profondeur de contrainte DOLzéro, un gradient A de la contrainte de compression de surface à une profondeur de 6 μm à partir de la surface la plus à l'extérieur dans la couche de contrainte de compression est de 50,0-110,0 MPa/μm, un gradient B de la contrainte de compression de surface à partir d'une profondeur de (la profondeur de contrainte DOLzéro - 10 μm) à la profondeur de contrainte DOLzéro est de 2,5-15,0 MPa/μm et une dureté à la profondeur d'indentation de la surface la plus à l'extérieur de 20 nm est de 7,50 à 9,50 GPa.

(JA): 表面に圧縮応力層を有する結晶化ガラス基板であって、前記圧縮応力層の表面圧縮応力が０ＭＰａとなるときの深さを応力深さＤＯＬzeroとするとき、前記圧縮応力層において、最表面から６μｍまでの深さの表面圧縮応力の勾配Ａが５０.０～１１０.０ＭＰａ/μｍであり、(前記応力深さＤＯＬzero-１０μm)の深さから前記応力深さＤＯＬzeroまでの表面圧縮応力の勾配Ｂが２.５～１５.０ＭＰａ/μｍであり、前記最表面の押し込み深さ２０ｎｍの硬さが、７.５０～９.５０ＧＰａである結晶化ガラス基板。

International search report:
Received at International Bureau: 18 February 2019 (18.02.2019) [JP]

International Report on Patentability (IPRP) Chapter II of the PCT:
Not available

(81) Designated States:
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, 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
European Patent Office (EPO) : 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
African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG
African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW
Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM