



(51) International Patent Classification:

G02B 5/28 (2006.01) C03C 17/34 (2006.01)
B32B 17/00 (2006.01)

(21) International Application Number:

PCT/IN2019/050510

(22) International Filing Date:

10 July 2019 (10.07.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

201841025968 12 July 2018 (12.07.2018) IN

(71) Applicant: SAINT-GOBAIN GLASS FRANCE
[FR/FR]; 18, Avenue d'Alsace, 92400 Courbevoie (FR).

(72) Inventor; and

(71) Applicant (for US only): MISRA, Soumyadeep [IN/IN];
8/5 D Raghav Arcade, Balu Street, Thiruvanniyur, Chennai
600041 (IN).

(72) Inventors: BASU, Arpan; URBA Apartment, 131, Brijji
Road (West), Kolkata 700084 (IN). KULKARNI, Shrijit
Sudhir; 2339 A ward, Tarabai road, shivaji pet, Kolhapur
416012 (IN).

(74) Agent: KUMAR, S. Giriraj; Intellectual Property Law De-
partment, Saint-Gobain India Pvt. Ltd., (Research & Devel-
opment), No: 1 FA, Phase-II, "C" Block, Kanagam Road
Tharamani, Chennai 600 113 (IN).

(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,
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, 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))

Published:

— with international search report (Art. 21(3))
— in black and white; the international application as filed
contained color or greyscale and is available for download
from PATENTSCOPE

(54) Title: SOLAR CONTROL GLASS ARTICLES

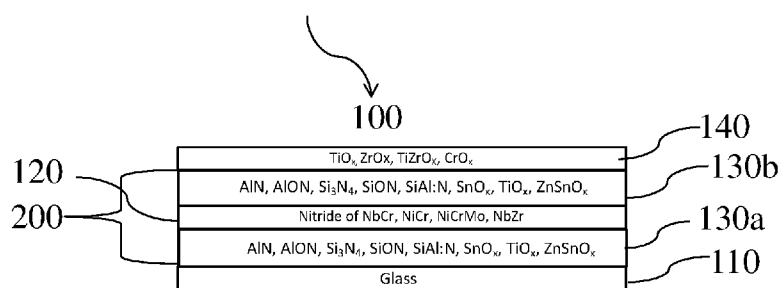


FIG. 1A

(57) **Abstract:** A heat treatable solar control glass article (100) having rose or copper color glass side reflection comprising a transparent glass substrate (110) provided with a multilayer coating (200) having solar control properties is disclosed. The multilayer coating (200) comprises of one or more nickel or niobium alloy nitride functional layers (120), each sandwiched between two transparent dielectric layers (130a, 130b). The thickness of the dielectric layer (130b) provided above the functional layer (120) is greater than 100 nm and less than 160 nm and that of the dielectric layer (130a) provided above the transparent glass substrate (110) is greater than 5 nm and less than 20 nm. The heat treatable solar control glass article (100) exhibits rose or copper colored reflection on the side opposite to the side provided with the multilayer coating (200).

