

(12) International Application Status Report

Received at International Bureau: 20 December 2019 (20.12.2019)

Information valid as of: 16 July 2020 (16.07.2020)

Report generated on: 28 September 2020 (28.09.2020)

(10) Publication number:

WO2020/112551

(43) Publication date:

04 June 2020 (04.06.2020)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/US2019/062816

(22) Filing Date:

22 November 2019 (22.11.2019)

(25) Filing language:

English (EN)

(31) Priority number(s):

19183530.5 (EP)

(31) Priority date(s):

01 July 2019 (01.07.2019)

(31) Priority status:

Priority document received (not in compliance with PCT Rule 17.1)

62/773,514 (US)

30 November 2018 (30.11.2018)

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

C08F 210/02 (2006.01); *C08F 210/16* (2006.01); *C08F 232/02* (2006.01); *C08J 5/18* (2006.01)

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(54) Title (EN): CYCLIC OLEFIN COPOLYMERS AND FILMS PREPARED THEREFROM

(54) Title (FR): COPOLYMÈRES D'OLÉFINES CYCLIQUES ET FILMS PRÉPARÉS À PARTIR DE CEUX-CI

(57) Abstract:

(EN): The present disclosure provides copolymers comprising from about 0.5 wt% to about 25 wt% cyclic olefin content and films comprising the copolymers. In one embodiment, a copolymer includes a C₂-C₄₀ monomer content of from about 75 wt% to about 99.5 wt%; and a C₅-C₄₀ cyclic olefin comonomer content of from about 0.5 wt% to about 25 wt%. The copolymer has a density of about 0.91 g/cm³ to about 0.933 g/cm³. Films of the present disclosure can have advantageous mechanical properties (such as melt strength) and optical properties (such as haze %).

(FR): La présente invention concerne des copolymères comprenant une teneur d'environ 0,5 % en poids à environ 25 % en poids d'oléfines cycliques et des films comprenant les copolymères. Dans un mode de réalisation, un copolymère comprend une teneur en monomère en C₂-C₄₀ d'environ 75 % en poids à environ 99,5 % en poids ; et une teneur en comonomère d'oléfine cyclique en C₅-C₄₀ d'environ 0,5 % en poids à environ 25 % en poids. Le copolymère a une densité d'environ 0,91 g/cm³ à environ 0,933 g/cm³. Les films selon la présente invention peuvent présenter des propriétés mécaniques avantageuses (telles que la résistance à l'état fondu) et des propriétés optiques avantageuses (telles que le trouble en %).

International search report:

Received at International Bureau: 30 March 2020 (30.03.2020) [KR]

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

Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))