

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2017/111621 A1

(43) International Publication Date
29 June 2017 (29.06.2017)

(51) International Patent Classification:
A23C 19/068 (2006.01) A23C 19/06 (2006.01)

(21) International Application Number:
PCT/NZ2016/050206

(22) International Filing Date:
23 December 2016 (23.12.2016)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
715584 24 December 2015 (24.12.2015) NZ
716956 15 February 2016 (15.02.2016) NZ

(71) Applicant: FONTERRA CO-OPERATIVE GROUP
LIMITED [NZ/NZ]; 109 Fanshawe Street, Auckland
Central, Auckland 1010 (NZ).

(72) Inventors: COKER, Christina June; Fonterra Co-Operative Group Limited, Dairy Farm Road, Palmerston North 4472 (NZ). GILLIES, Graeme Shawn; Fonterra Co-Operative Group Limited, Dairy Farm Road, Palmerston North 4472 (NZ). HAVEA, Palatasa; Fonterra Co-Operative Group Limited, Dairy Farm Road, Palmerston North 4472 (NZ). TAYLOR, Steve Murray; Fonterra Co-Operative Group Limited, Dairy Farm Road, Palmerston North 4472 (NZ).

(74) Agent: AJ PARK; Level 22, State Insurance Tower, 1 Willis Street, Wellington 6140 (NZ).

(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, 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).

Published:

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



WO 2017/111621 A1

(54) Title: DAIRY PRODUCT AND PROCESSES

(57) Abstract: The invention relates to the manufacture of a pasta filata cheese comprising a moisture content of at least about 55% by weight, a solids-non-fat content of up to about 45% by weight, the solids-non-fat comprising at least about 70% by weight protein, the protein comprising at least about 65% by weight casein, and a mineral content comprising a total divalent cation content of about 25 to about 75 mMol of divalent cations/100 g casein, and a total monovalent cation content of about 100 to about 250 mMol monovalent cations/100 g casein, and a total cation content of about 150 to about 300 mMol total cations/100 g casein.