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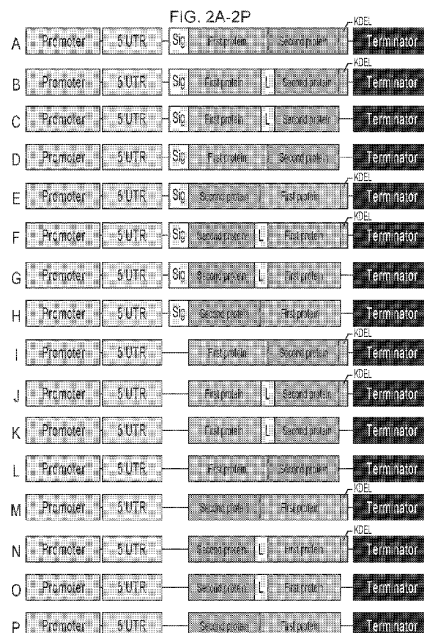
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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, 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,

- (54) **Title:** RECOMBINANT MILK PROTEINS AND FOOD COMPOSITIONS COMPRISING THE SAME



- (57) **Abstract:** Provided herein are compositions and methods for producing milk proteins, which allow for safe, sustainable and humane production of milk proteins for commercial use, such as use in food compositions. The disclosure provides recombinant fusion proteins comprising at least first protein and a second protein, wherein at least one of the first protein and the second protein is a milk protein, or fragment thereof. The disclosure also provides methods for producing the recombinant fusions proteins, and food compositions comprising the same.

[Continued on next page]

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

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