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(54) **Title:** NUCLEOCAPSID ANTIGEN IMMUNOTHERAPY FOR COVID-19 FUSION PROTEINS AND METHODS OF USE

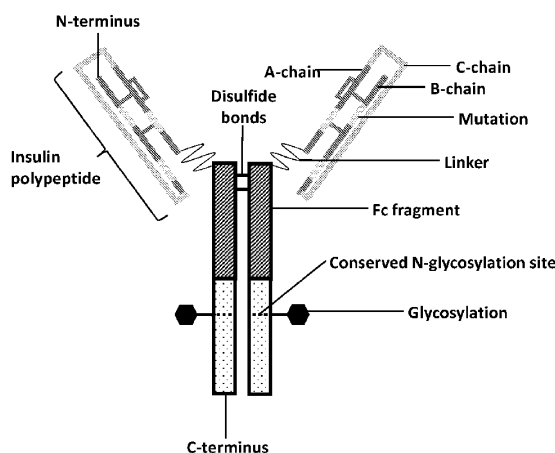


FIG. 1

(57) **Abstract:** The present disclosure provides recombinantly manufactured fusion proteins comprising a SARS-CoV-2 nucleocapsid protein (N-protein) fragment or an analog thereof linked to a human Fc fragment for use in relation to the 2019 Novel Coronavirus (COVID-19). Embodiments include the administration of the fusion proteins to patients that have recovered from COVID-19 as a booster vaccination, to antibody naive patients to produce antibodies to the SARS-CoV-2 virus to enable the patients to become convalescent plasma donors, to patients who have been infected by the SARS-CoV-2 virus and have contracted COVID-19 in order to limit the scope of the infection and ameliorate the disease, and as a prophylactic COVID-19 vaccine. Exemplary Fc fusion proteins and pharmaceutical formulations of exemplary Fc fusion proteins are provided, in addition to methods of use and preparation.

[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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