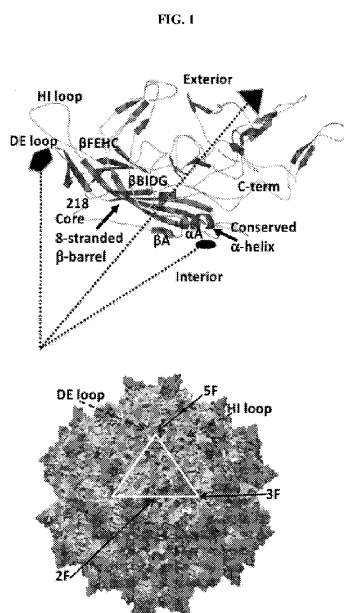




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(54) **Title:** CHARACTERIZATION OF ADENO-ASSOCIATED VIRUS USING MICROCHIP CAPILLARY ELECTROPHORESIS



(57) **Abstract:** Methods and systems for identifying capsid viral proteins in a sample containing viral vectors are provided, including determining the ratio of the capsid viral proteins of adeno-associated virus. The methods and systems comprise denaturing the capsid viral proteins in the sample, labelling the denatured capsid viral proteins with a lysine-conjugation dye, generating a separation profile of the denatured/labelled capsid viral proteins using microchip capillary electrophoresis, quantifying levels of the capsid viral proteins based on the separation profile, determining a quantification ratio of the capsid viral proteins based on the separation profile, and normalizing the quantification ratio based on lysine contents of the capsid viral proteins.

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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