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(54) **Title:** METHODS AND SYSTEMS FOR ANALYZING POLYPEPTIDE VARIANTS

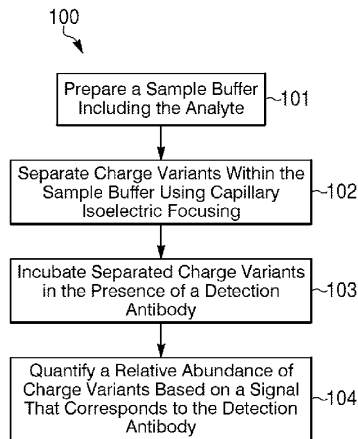


FIG. 1

(57) **Abstract:** A method of quantifying charge variants within an analyte may include introducing a sample buffer comprising the analyte into a capillary, separating charge variants within the sample buffer along an isoelectric gradient, incubating the capillary in a detection antibody, quantifying a relative abundance of a charge variant based on a signal that corresponds to the detection antibody. The method may further include generating an electropherogram, wherein the electropherogram includes a plot of a strength of a signal generated by a reporter molecule versus an isoelectric point along the isoelectric gradient where the signal was detected.

[Continued on next page]

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