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(71) Applicant (for all designated States except US): **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, 4070 Basel (CH).(71) Applicant (for US only): **HOFFMANN-LA ROCHE INC.** [US/US]; Overlook at Great Notch, 150 Clove Road, 07424 Little Falls, New Jersey (US).(72) Inventors: **SCHAUBMAR, Andreas**; c/o Roche Diagnostics GmbH, Nonnenwald 2, 82377 Penzberg (DE). **WIT-****TKOPP, Felix**; c/o Roche Diagnostics GmbH, Nonnenwald 2, 82377 Penzberg (DE).(74) Agent: **RICHARDT PATENTANWÄLTE PARTG MBB**; Wilhelmstraße 7, 65185 Wiesbaden (DE).

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(54) Title: CATION CHROMATOGRAPHY USING PREDICTED ELUTION BUFFER SALT CONCENTRATION

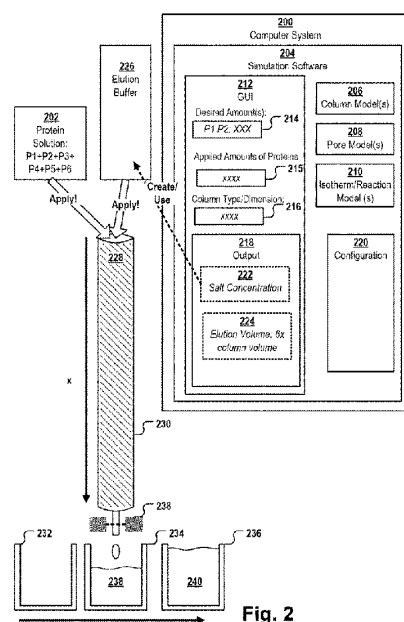


Fig. 2

(57) Abstract: The invention relates to a chromatography method of producing a target elution volume (238) comprising a first and a second target protein (P1, P2). The method comprises: providing (102) a cation exchange chromatography column (230); applying (104) a protein solution (202) on the column, the protein solution comprising the first target protein (P1), a second target protein and optionally one or more further proteins (P3, P4, P5, P6); inputting (106) an optimization criterion; computing (108) chromatography simulations for computing an elution buffer salt concentration (222) adapted to provide a target elution volume matching the optimization criterion best; computing (110) the pooling borders of the target elution volume as a function of at least the computed salt concentration and the input optimization criterion; applying (112) an elution buffer (226) having the computed salt concentration on the chromatography column; performing (114) the elution; and collecting (116) the computed target elution volume.

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