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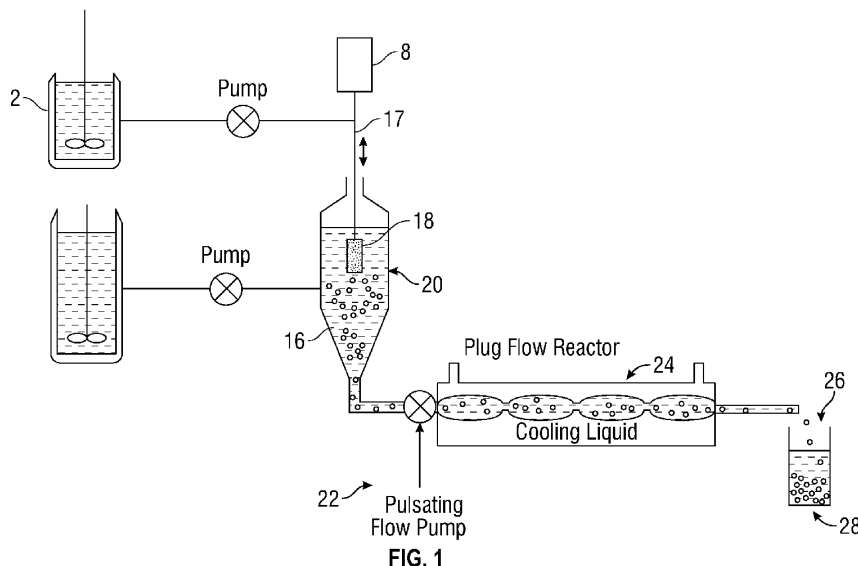
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(54) Title: SEPARATION MATRICES AND METHODS FOR LIQUID CHROMATOGRAPHY WITH IMPROVED LINEAR
FLOW VELOCITY



(57) Abstract: Methods of performing liquid chromatography using a mobile phase and a stationary phase, wherein the stationary phase includes a separation matrix comprising spheroidal polymer beads prepared by dispersing a hydrocolloid or other gel forming compound or a water-soluble polymerizable monomer through a plurality of holes in a membrane under conditions sufficient to form beads with a volume median particle diameter of less than about 300 μm and a SPAN of less than 0.6 to increase linear flow velocity (cm/h) of the mobile phase compared to polymer beads having a SPAN of 0.6 or greater are disclosed. Methods of increasing linear flow velocity of the mobile phase as well as separation matrices are further disclosed.

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