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(54) Title: FLOW REACTOR SYSTEM AND FLOW REACTION METHOD

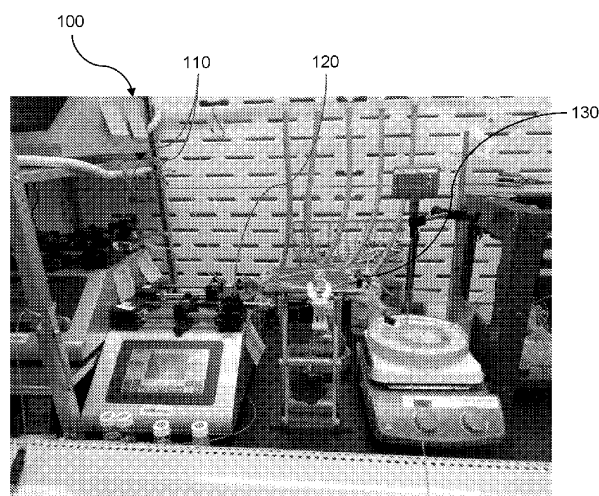


Figure 1

(57) **Abstract:** The present disclosure generally relates to a flow reactor system (100) and a flow reaction method (200). The flow reactor system (100) comprises liquid pumps (110) for communicating liquid reagents based on a set of flow conditions, a fluid pump (200) for communicating a carrier fluid that is immiscible with the liquid reagents; a fluidic mixer (130) for mixing the liquid reagents into a liquid mixture, a measurement device (150) for measuring properties of liquid plugs (140) discharged from an outlet (136) of the fluidic mixer (130); and a control module configured for controlling the liquid pumps (110) and adjusting the flow conditions based on the measured properties of the liquid plugs (140), wherein the liquid plugs (140) are representative of different flow conditions.

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