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(54) Title: VORTEX MIXERS AND ASSOCIATED METHODS, SYSTEMS, AND APPARATUSES THEREOF

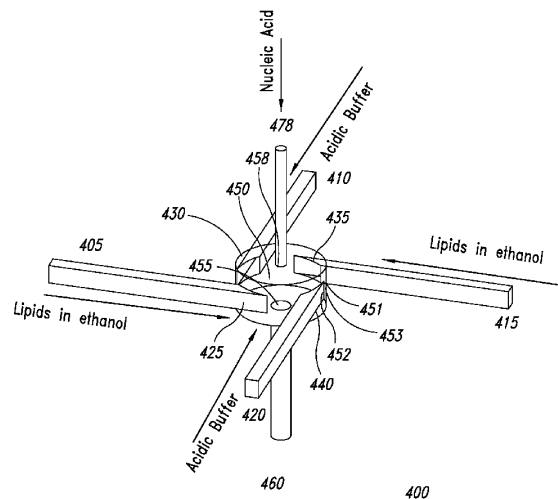


FIG. 4A

(57) Abstract: A vortex mixer (400) may have a vortex mixing chamber (450) having a first wall (451), a second wall (452), and a side wall (453) connecting the first wall and the second wall. At least two inlet ports (405, 410, 415, 520) may be configured along the side wall, each inlet port having an inlet channel connected thereto. The at least two inlet ports may be approximately equally spaced around the vortex mixing chamber and configured tangentially to the vortex mixing chamber. An exit port (455) may have an exit channel connected thereto. The exit port may be configured at a radial center of the second wall, and the exit channel may extend from the exit port and away from the vortex mixing chamber.

[Continued on next page]

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