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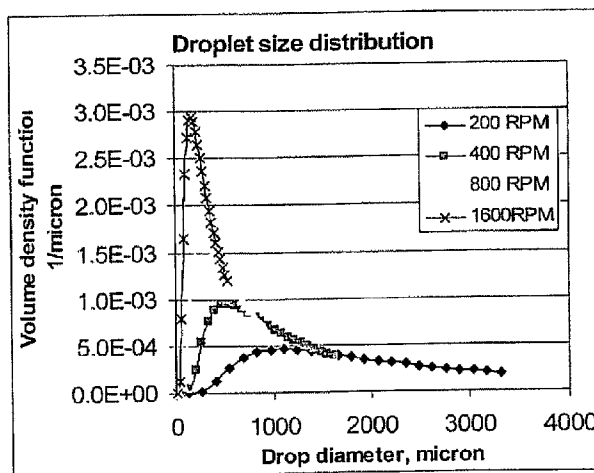


FIG. 1

(57) Abstract: A process for a liquid/liquid reaction employs a nozzle dispersion whereby liquid reactants and liquid catalyst are injected through at least one nozzle into a reaction zone to effect a reaction. The reaction can be alkylation of at least one isoparaffin with at least one olefin in the presence of an ionic liquid catalyst. The at least one nozzle provides intimate contact between the phases for greater product control and reaction control.

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