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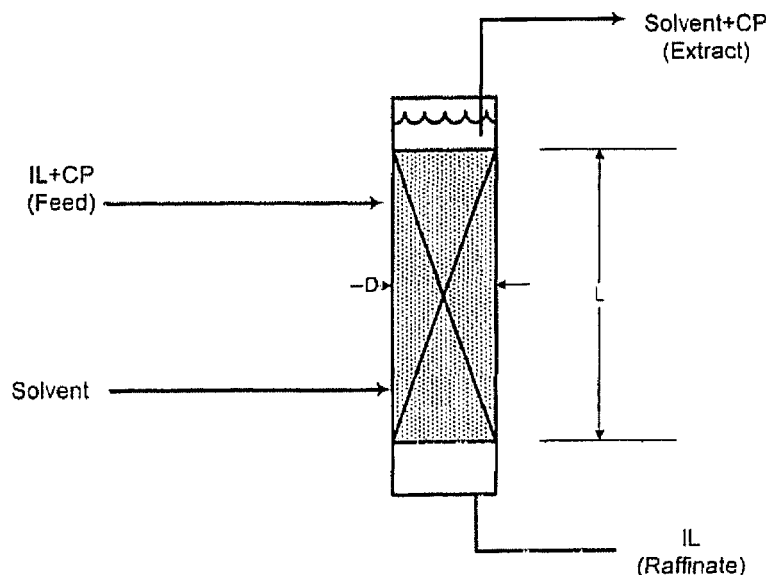
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(54) Title: A PROCESS FOR IONIC LIQUID CATALYST REGENERATION



Figure

(57) Abstract: A regeneration process for re-ac-
tivating an ionic liquid catalyst, which is useful
in a variety of reactions, especially alkylation re-
actions, and which has been deactivated by con-
junct polymers. The process includes a reaction
step and a solvent extraction step. The process
comprises (a) providing the ionic liquid catalyst,
wherein at least a portion of the ionic liquid cat-
alyst is bound to conjunct polymers; and (b) re-
acting the ionic liquid catalyst with aluminum
metal to free the conjunct polymers from the
ionic liquid catalyst in a stirred reactor or a fixed
reactor. The conjunct polymer is then separated
from the catalyst phase by solvent extraction in a
stirred extraction or packed column.



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