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(54) Title: SYSTEM AND APPARATUS FOR IONIC LIQUID CATALYST REGENERATION

(57) Abstract: Disclosed are a system and an apparatus for regenerating an ionic liquid catalyst, which has been deactivated by conjunct polymers during any type of reaction producing conjunct polymers as a by-product, for example, isoparaffin-olefin alkylation. The system and apparatus are designed such that solvent extraction of conjunct polymers, freed from the ionic liquid catalyst through its reaction with aluminum metal, occurs as soon as the conjunct polymers de-bond from the ionic liquid catalyst.

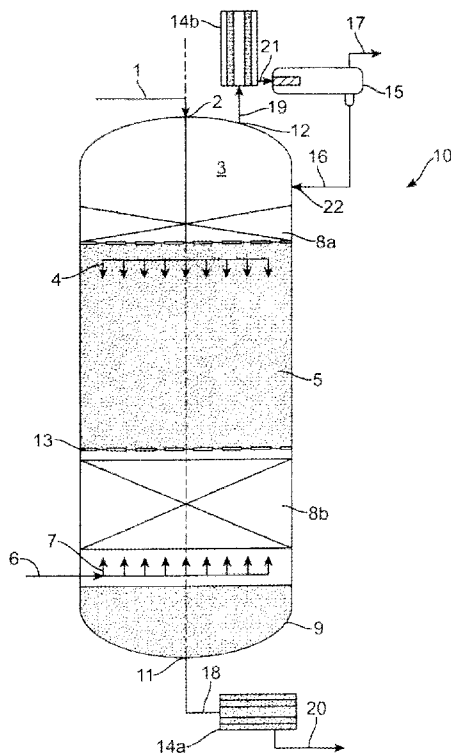


FIG. 1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
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