

Title (en)

Method of separating aromatic and nonaromatic hydrocarbons in mixed hydrocarbon feeds.

Title (de)

Verfahren zum Trennen aromatischer und nichtaromatischer Kohlenwasserstoffe in einem Kohlenwasserstoffgemisch.

Title (fr)

Procédé pour la séparation d'hydrocarbures aromatiques et non-aromatiques dans des mélanges d'hydrocarbures.

Publication

EP 0043685 A1 19820113 (EN)

Application

EP 81302928 A 19810629

Priority

- US 16422880 A 19800630
- US 26742781 A 19810604

Abstract (en)

A process for separating aromatic and nonaromatic hydrocarbons which comprises a continuous solvent extraction - solvent decantation process. The process is particularly well-suited for a hydrocarbon feed comprising hydrocarbon mineral oils as a nonaromatic component wherein the process provides improved stability of said hydrocarbon mineral oils, normally susceptible to thermal degradation and oxidation and, further, decreases the tendency of such oils to form sludge. The process involves: (a) contacting (24) such hydrocarbon feed (10) with an aromatic selective solvent (57) to provide an aromatic-rich solvent phase (28) and a raffinate phase (26), (b) cooling (30, 32) the aromatic-rich solvent phase (28) to bring about the formation of two phases; (c) introducing the phase of the cooled aromatic-rich solvent phase (28) to a decantation zone (34) with an anti-solvent (44) for aromatic hydrocarbon in said aromatic selective solvent to provide an aromatic-rich extract phase (36) and a solvent phase (48) (d) removing anti-solvent (54) from said solvent phase (48) and recycling said solvent phase (57) to the extraction zone (24); and (e) recovering the aromatic-rich extract (40) of step (c) and the raffinate (66) of step (a).

IPC 1-7

C10G 21/02; **C10G 21/28**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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EP 0043685 A1 19820113; **EP 0043685 B1 19840808**; AU 7244081 A 19830414; BR 8104107 A 19820316; CA 1163276 A 19840306; DE 3165395 D1 19840913; MX 158960 A 19890404; YU 161581 A 19830630

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