

Title (en)

Improvements for reducing coke deposition in thermal upgrading processes

Title (de)

Verbesserungen in der Erniedrigung von Koksabsatzungen in thermische Veredelungsverfahren

Title (fr)

Améliorations pour la réduction de dépôts de coke dans des procédés thermiques de valorisation

Publication

**EP 0540793 B1 19970108 (EN)**

Application

**EP 91310328 A 19911107**

Priority

- EP 91310328 A 19911107
- CA 2025125 A 19900912

Abstract (en)

[origin: EP0540793A1] In a hydrocracking process, a feed mixture comprising a heavy oil containing asphaltenes and sulfur moieties, an oil-soluble metal compound additive (e.g. Fe(CO) psi ) which will impede coalescence of coke precursors, and a hydrocarbon diluent which is a solvent for the asphaltenes, is mixed and heated to a mild temperature (e.g. 150 DEG C) to disperse the additive and associate it with the asphaltenes. The mixture is then further heated to hydrocracking temperature and reacted in a reactor wherein a prolific hydrogen flow is passed through the breadth and length of the charge to mix the charge and strip light ends. The combination of features results in impeding the evolution of coke precursors, so that a substantial proportion thereof remains in the agglomerate state, and in improving the conversion of the 504 DEG C &copy; part of the feedstock.

IPC 1-7

**C10G 47/26**; **C10G 47/00**; **C10G 47/34**

IPC 8 full level

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CPC (source: EP)

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