Title (en)

Hydrocarbon conversion process.

Title (de)

Verfahren zur Umwandlung von Kohlenwasserstoffen.

Title (fr)

Procédé de conversion d'hydrocarbures.

Publication

EP 0237661 A1 19870923 (EN)

Application

EP 86301965 A 19860318

Priority

- EP 86301965 A 19860318
- GB 8424077 A 19840924

Abstract (en)

A hydrocarbon chargestock (11) is separated by distillation (12, 16), e.g. at least in part under reduced pressure, into a conversion feedstream (22, 24) and a vacuum residuum (17). The feedstream is converted at an elevated temperature in a conversion unit (25), e.g. a fluidized catalytic cracking system, to high temperature conversion products (26) which are passed into the bottom region of the lower portion (27) of a fractionation tower (28). The vacuum residuum (17) is passed (via 50) into the top of the lower portion (27) of the fractionation tower (28). Heat and mass transfer within the lower portion (27) of the tower desuperheat the conversion products and also strip from the vacuum residuum lower boiling materials thereby increasing the amount of useful hydrocarbon distillates recovered from the tower (28) and decreasing the amount of low value high boiling residue (30) discharged from the bottom of the tower and which is discarded for use as a fuel oil component and/or a feed for a subsequent conversion process (e.g. visbreaking, flexicoking, etc). The amount of cooling of high boiling materials (e.g. in heat exchangers 19, 33) is considerably reduced compared to known hydrocarbon conversion processes.

IPC 1-7

C10G 11/00; C10G 7/00

IPC 8 full level

C10G 7/00 (2006.01); **C10G 11/00** (2006.01)

CPC (source: EP)

C10G 7/00 (2013.01); **C10G 11/00** (2013.01)

Citation (search report)

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- [Y] US 2834715 A 19580513 - PRATT THOMAS W
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EP1204718A4; CN114949906A

Designated contracting state (EPC)

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DOCDB simple family (publication)

GB 2164659 A 19860326; **GB 2164659 B 19880602**; **GB 8424077 D0 19841031**; EP 0237661 A1 19870923

DOCDB simple family (application)

GB 8424077 A 19840924; EP 86301965 A 19860318