

Title (en)
Hydrocarbon treatment process.

Title (de)
Verfahren zur Behandlung von Kohlenwasserstoffen.

Title (fr)
Procédé de traitement d'hydrocarbures.

Publication
EP 0236055 A2 19870909 (EN)

Application
EP 87301612 A 19870224

Priority
US 83190586 A 19860224

Abstract (en)
Process in which lower boiling prods. are obtd. from a hydrocarbon feed by (a) contacting it with fluidised solid contact material at high temp. in a riser, (b) sepg. spent contact material and stripping it of volatile hydrocarbons in a stripping zone, (c) regenerating stripped contact material by contact with O₂-contg. gas in a regeneration zone, and (d) returning hot freshly regenerated contact material to the riser further includes 2 or more of the following: (i) suspending hot regenerated contact material in a carbonisable lift gas in the lower part of the riser and injecting hydrocarbon feed higher up in the riser; (ii) charging hydrocarbon feed into the base of the riser, steam cooling a part of the hot freshly regenerated contact material, and contacting the hydrocarbon feed with hot regenerated contact material upstream of the point where the feed is contacted with steam-cooled contact material; (iii) cooling a part of the hot freshly regenerated contact material before returning it to the riser; and (iv) adding a part of the freshly heated regenerated contact material to the stripping zone. The contact material pref. comprises a zeolite catalyst with acid sites.

IPC 1-7
C10G 11/18

IPC 8 full level
C10G 11/18 (2006.01)

CPC (source: EP)
C10G 11/18 (2013.01)

Cited by
EP0758014A3; EP0315179A1; US4985136A; US6723227B1; US7892416B2; WO2005078051A1; WO0068340A1; US10767117B2; US11306258B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0236055 A2 19870909; EP 0236055 A3 19871007; BR 8700870 A 19871222; CN 87100803 A 19871007; ZA 871301 B 19881026

DOCDB simple family (application)
EP 87301612 A 19870224; BR 8700870 A 19870224; CN 87100803 A 19870223; ZA 871301 A 19870223