

Title (en)

METHOD AND DEVICE FOR VAPOR-CRACKING OF HYDROCARBONS IN FLUIDIZED PHASE.

Title (de)

VERFAHREN UND EINRICHTUNG ZUM DAMPFKRACKEN VON KOHLENWASSERSTOFFEN IN DER WIRBELSCHICHTPHASE.

Title (fr)

PROCEDE ET DISPOSITIF DE VAPOCRAQUAGE D'HYDROCARBURES EN PHASE FLUIDISEE.

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Application

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Abstract (en)

[origin: US5538625A] The present invention relates to a steam cracking process and apparatus which permits the conversion of fractions of petroleum hydrocarbons. The claimed invention provides for the conversion of at least one light hydrocarbon fraction, as well as a heavier hydrocarbon feedstock. The inventive process takes place at a high temperature and in the presence of a dilute fluidized phase of heat-transfer particles. The process comprises contacting the light-hydrocarbon feedstock and then the heavier feedstock, in a sequential manner with catalytic or noncatalytic heat-transfer particles in a continuous flow reactor. The process further provides for separating and stripping, to separate at least 90 percent of the particles which are regenerated before recycling. The process also provides for the separation of the effluent hydrocarbons which are quenched by cold feedstock and/or recycled residue (optionally supplemented by fresh particles) and thereafter recovered by fractionation distillation with at least a portion of the residue fraction being recycled to the downstream portion of the reactor.

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