

Title (en)

PROCESS AND APPARATUS FOR THE CATALYTIC CRACKING OF A HYDROCARBONACEOUS FOOD IN A REACTION ZONE IN WHICH CIRCULATE SUBSTANTIALLY INERT AND CATALYTIC PARTICLES

Publication

EP 0272973 B1 19910612 (FR)

Application

EP 87402781 A 19871208

Priority

FR 8617787 A 19861217

Abstract (en)

[origin: EP0272973A1] According to the process, the feedstock and a first mixture of a major part of substantially inert solid particles originating from the line (4) are introduced into a vaporisation zone (1a) at a temperature T'2 of between 650 DEG C and 1200 DEG C, the feedstock and the first mixture of solid particles are caused to flow into a stream of carrier gas and a second stage of a major part of catalyst particles of smaller particle size and lower density originating from the line (6) is introduced into a cracking zone (1b) continuous with the vaporisation zone, at a temperature T'1 of between 300 and 750 DEG C, lower than T'2; the resulting mixture is circulated countercurrentwise in the cracking zone (1b), the cracking effluents and the solid and catalyst particles are recovered (9), the said effluents are separated from the said particles, the said particles are separated off (13a) and regenerated, an inert solid particle fraction and a catalyst particle fraction are recovered separately and are recycled into the vaporisation zone and into the cracking zone respectively. Application in the oil industry. <IMAGE>

IPC 1-7

B01J 8/32; C10G 11/18

IPC 8 full level

B01J 8/32 (2006.01); **C10G 11/18** (2006.01)

CPC (source: EP)

C10G 11/18 (2013.01)

Cited by

EP0439509A4; EP0398557A1; EP1046696A3; EP1013743A1; AU777436B2; EP0408669A4; DE10219863B4; KR20190041028A; EP3512923A4; US10758883B2; US10696907B2; US11015130B2

Designated contracting state (EPC)

AT BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0272973 A1 19880629; EP 0272973 B1 19910612; AT E64408 T1 19910615; DE 3770789 D1 19910718; FR 2608623 A1 19880624; FR 2608623 B1 19891027; JP S63165484 A 19880708

DOCDB simple family (application)

EP 87402781 A 19871208; AT 87402781 T 19871208; DE 3770789 T 19871208; FR 8617787 A 19861217; JP 32112987 A 19871217