

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

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CPC (source: EP)

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Cited by

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

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