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(84) Designated Contracting States: AT BE CH DE ES FR GB GR IT LI LU NL SE (71) Applicant: ENGELHARD CORPORATION Menio Park, CN 40 Edison New Jersey 08818(US)

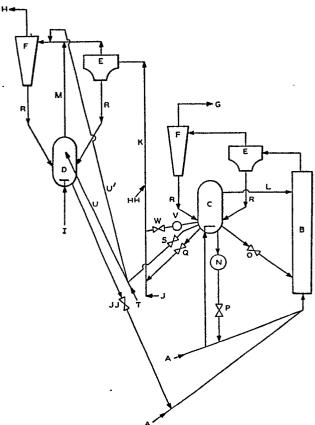
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(54) Hydrocarbon treatment process.

- (57) A process wherein lower boiling products (H) are obtained from a hydrocarbon feed (J and/or HH) by contacting the feed with fluidized solid contact material at elevated temperature in a riser (K), spent contact material is separated and stripped of volatile hydrocarbons in a stripping zone (D), stripped contact material is regenerated with oxygencontaining gas (A) in a regeneration zone (B), and hot freshly regenerated fluidized solid contact material is returned to the riser (K), the process further including two or more of the following:
- (i) suspending hot regenerated contact material in a carbonizable lift gas at the lower portion of the riser and injecting hydrocarbon feed higher in the riser;
- (ii) charging hydrocarbon feed into the base of the riser, steam cooling a portion of the hot freshly regenerated contact material, and contacting the hydrocarbon feed with hot regenerated contact material upstream of where said hydrocarbon feed is contacted with the steam cooled contact material;
- (iii) cooling a portion of hot freshly regenerated contact material before returning it to the riser; and
- (iv) adding a portion of freshly heated regenerated contact material to said stripping zone.





EUROPEAN SEARCH REPORT

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	DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate,					CI ASSISICATION OF THE	
* Abstract; figures 2,3; claims * Y EP-A-0 074 501 (ASHLAND) * Figure 1; claims * A EP-A-0 101 553 (ASHLAND OIL) * Figure 1; claims * EP-A-0 154 676 (UOP) * Claims * X US-A-3 886 060 (OWEN) * Figure 1; column 5, line 55 - column 6, line 10; column 4, lines 3-10; claims * A EP-A-0 137 998 (ASHLAND OIL) * Figure 2; abstract * X US-B- 467 250 (McKENNA) * Figure; claims * The present search report has been drawn up for all claims Place of search Date of completion of the search Examiner	Category					CLASSIFICATION OF THE APPLICATION (Int. Cl.4)	
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A	US-A-2 427 820 (* Figure 1 *	THOMAS)	4,5	
A	US-A-2 374 073 (BELCHETZ)		
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