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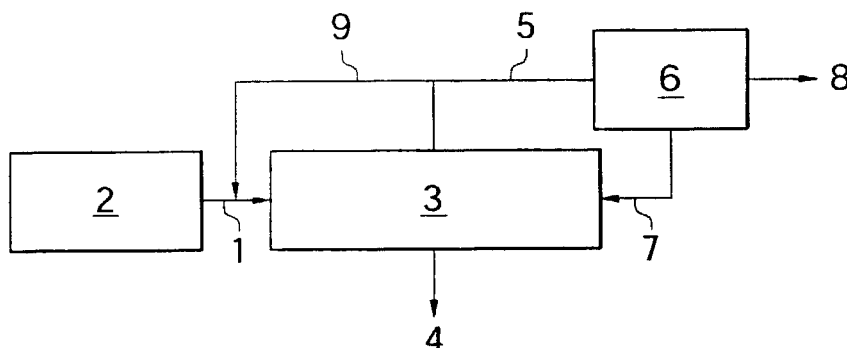
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(54) Title: PRODUCTION OF OLEFIN DERIVATIVES



(57) Abstract: Disclosed is a system of making an olefin derivative from a dilute olefin feed. Dilute olefin (1) is sent to an olefin reaction unit (3) to form an olefin derivative product. The olefin derivative product (4) is recovered from the reaction unit while a vent stream (5) is also removed. A portion of the vent steam may be recycled back to the reaction unit via line (9). The vent stream is sent to an olefin separation unit (6), where an olefin stream (7) is recovered and returned to the olefin reaction unit for additional processing. The non-olefin compounds are removed via purge (8). Using appropriate recycle of vent gas within the olefin reaction unit allows the use of a high quality olefin stream in the olefin reaction process with a reduced risk of equipment fouling and catalyst contamination, while maintaining a high product quality.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 599 955 A (VORA BIPIN V ET AL) 4 February 1997 (1997-02-04) column 9, line 38 -column 12, line 32 example I figure 1 ---	1-4,6, 8-12
X	US 3 635 919 A (GOFFINET EDWARD PETER JR) 18 January 1972 (1972-01-18) column 5, line 10 - line 22 figure 1 ---	1-4,11, 12
X	WO 00 21657 A (DSM NV ;SMIT LEO (NL); MOENS FRITS PIETER (NL); MUTSERS STANISLAUS) 20 April 2000 (2000-04-20) ---	1-12
Y	page 7, line 11 -page 12, line 5 --- -/--	13-46

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