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(54) Title: PROCESS FOR CONTACTING ONE OR MORE FLUIDS AND A REACTOR RELATING THERETO

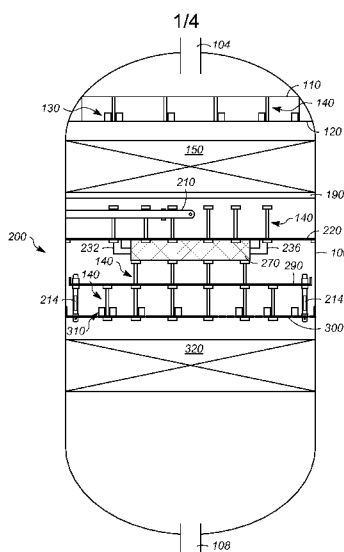


FIG. 1

(57) Abstract: One exemplary embodiment can be a process for contacting one or more fluids in a vessel. The process may include passing one or more fluids into a chamber from an overhead tray and providing a conduit outside the chamber coupling a respective spillway to a respective hole for increasing contact time inside the conduit. Typically, the chamber forms one or more sidewalls forming at least one hole and the overhead tray forms at least one spillway.



**A. CLASSIFICATION OF SUBJECT MATTER*****B01J 10/00(2006.01)i, B01J 19/24(2006.01)i, B01F 3/04(2006.01)i***

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)

B01J 10/00; B01J 8/02; B01J 8/04; C10G 9/18

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: reactor, sidewall, hole, spillway, contacting

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2004-0228779 A1 (MCDUGALD, NEIL K. et al.) 18 November 2004 See claim 1; paragraphs [0001], [0018], [0035]-[0037].	1-10
A	US 6180068 B1 (BOYD, SHERRI L. et al.) 30 January 2001 See claims 1, 2, 5; column 6, lines 3-12; column 7, lines 6-14.	1-10
A	US 05837208 A (GROTT, JEFFREY RICHARD et al.) 17 November 1998 See abstract; claim 1.	1-10
A	EP 0207673 A1 (MOBIL OIL CORPORATION) 07 January 1987 See claim 1; column 1, lines 1-3.	1-10

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&amp;" document member of the same patent family

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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