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(54) Title: METHOD FOR TREATMENT OF HEAVY HYDROCARBON FRACTION AND EQUIPMENT THERETO

(57) Abstract: A method and device for treating heavy oil material is disclosed. The raw material is exposed to combined flux of accelerated particles and ionizing radiation of predetermined energy and charge, while in the volume of irradiated feed nonuniformities of density and flow rate are introduced. The device for treating of heavy oil products according to the disclosed comprises the body or irradiator with enclosed radiation sources, feed heating system, feed running system and biological shielding means, the feed running system incorporating means for generation of flow nonuniformity.

INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10G32/04 C10G15/10

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)

IPC 7 C10G

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, COMPENDEX, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 04653 A (POKACALOV GENNADIJ) 5 February 1998 (1998-02-05) the whole document & CZ 281 889 A 12 March 1997 (1997-03-12) cited in the application	1, 2
A	US 2 992 173 A (CAROL FARHI ET AL) 11 July 1961 (1961-07-11) figure 1	1, 2
A	US 5 460 144 A (PARK JONG H ET AL) 24 October 1995 (1995-10-24) column 4, line 43 - line 53	1, 2
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE COMPENDEX 'Online! ENGINEERING INFORMATION, INC., NEW YORK, NY, US; KOZLOVA R G ET AL: "EFFECTS OF A MAGNETIC FIELD ON HEAVY OIL RESIDUES AT HIGH TEMPERATURES" Database accession no. EIX88040049960 XP002189386 abstract & J ENG PHYS DEC 1986, vol. 51, no. 6, December 1986 (1986-12), pages 1452-1454, -----</p>	1

INTERNATIONAL SEARCH REPORT

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