

Title (en)

Use of an alloy in a process for hydrothermal gasification of salts containing reactants

Title (de)

Verwendung einer Legierung in einem Verfahren zur hydrothermalen Vergasung von salzhaltigen Edukten

Title (fr)

Utilisation d'un alliage dans un procédé de gazéification hydrothermique de produits contenant des sels

Publication

**EP 1845148 A3 20101208 (DE)**

Application

**EP 07004732 A 20070308**

Priority

DE 102006017230 A 20060412

Abstract (en)

[origin: EP1845148A2] An alloy used as the inner surface of a reaction vessel in the hydrothermal gasification of salt-containing educts, comprises (wt.%): at least 25 iron; or at least 25 nickel; and not more than 0.1 molybdenum.

IPC 8 full level

**C10J 3/74** (2006.01)

CPC (source: EP)

**C10J 3/74** (2013.01); **C10J 2200/06** (2013.01); **C10J 2300/0916** (2013.01); **C10J 2300/0979** (2013.01)

Citation (search report)

- [A] WO 2005040439 A1 20050506 - EBARA CORP [JP], et al
- [A] CN 1093120 A 19941005 - IRON STEEL RESEARCH INST MINIS [CN]
- [A] EP 0190408 A1 19860813 - HITACHI LTD [JP]
- [X] "Ergebnisbericht ueber Forschung und Entwicklung 2003", FORSCHUNGSZENTRUM KARLSRUHE. ERGEBNISBERICHT UEBER FORSCHUNG UND ENTWICKLUNG, FORSCHUNGSZENTRUM KARLSRUHE GMBH, DE, 1 January 2003 (2003-01-01), pages 1 - 78, XP008128421, ISSN: 0948-4310
- [I] BOUKIS N ET AL: "Corrosion screening tests with Ni-based alloys in supercritical water containing hydrochloric acid and oxygen", PROCEEDINGS OF THE ASME HEAT TRANSFER DIVISION : PRESENTED AT THE 1996 INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, NOVEMBER 17 - 22, 1996, ATLANTA, GEORGIA; [HTD], NEW YORK, NY : AMERICAN SOC. OF MECHANICAL ENGINEERS, US, vol. 335, 17 November 1996 (1996-11-17), pages 159 - 167, XP008128399, ISBN: 978-0-7918-1523-6
- [A] DINJUS ECKHARD ET AL: "Conversion of organic streams in supercritical water", MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS; [MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS], MATERIALS RESEARCH SOCIETY, USA, vol. 884, 1 January 2005 (2005-01-01), pages 48 - 60, XP009094330, ISBN: 978-1-55899-828-5
- [A] SCHMIEDER H ET AL: "Hydrothermal gasification of biomass and organic wastes", JOURNAL OF SUPERCRITICAL FLUIDS, PRA PRESS, US LNKD- DOI:10.1016/S0896-8446(99)00051-0, vol. 17, no. 2, 10 April 2000 (2000-04-10), pages 145 - 153, XP004262582, ISSN: 0896-8446
- [A] BOUKIS N ET AL: "Werkstoffkorrosion in ueberkritischen waessringen Loesungen", NACHRICHTEN, KARLSRUHE, DE, vol. 33, no. 1, 1 January 2001 (2001-01-01), pages 81 - 90, XP008128420, ISSN: 0948-0919, Retrieved from the Internet <URL:http://bibliothek.fzk.de/zb/veroeff/49871.pdf ORD-2001-00-00> [retrieved on 20050409]

Cited by

EP3940041A1; WO2022013391A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1845148 A2 20071017; EP 1845148 A3 20101208**

DOCDB simple family (application)

**EP 07004732 A 20070308**