

Title (en)
VESSEL FOR THE METALLURGICAL TREATMENT OF PIG IRON, STEEL MELTS AND SIMILAR, IN PARTICULAR A CONVERTER VESSEL

Title (de)
GEFÄSS FÜR DIE METALLURGISCHE BEHANDLUNG VON ROHEISEN, STAHLSCHELMELZEN U.DGL., INSBESONDERE KONVERTERGEFÄSS

Title (fr)
RECIPIENT POUR LE TRAITEMENT METALLURGIQUE DE FONTE BRUTE, D'ACIER LIQUIDE ET ANALOGUE, EN PARTICULIER RECIPIENT DE CONVERTISSEUR

Publication
EP 1573073 A1 20050914 (DE)

Application
EP 03753470 A 20030926

Priority
• DE 10251964 A 20021108
• EP 0310760 W 20030926

Abstract (en)
[origin: WO2004042091A1] The invention relates to a vessel (1) for the metallurgical treatment of pig iron, steel melts and similar, in particular a converter vessel, mounted on a support ring (3), arranged at a separation by means of pivot pins, whereby the vessel (1) rests on the top flange (3a) of the support ring (3) by means of claws (6) on the vessel wall (1 b) and a support (4) is detachably embodied with additional fixing elements on the top flange (3a) of the support ring (3). According to the invention, the disadvantage of having to work in hot, restricted regions which are difficult for the personnel to access can be avoided, whereby the support on the top flange (3a) of the support ring (3) comprises opposing vessel brackets (7) and support ring brackets (8) which can be tensioned together in a closing direction (10) by means of a hinged closure (9) until a secure closed position is achieved and which may be easily opened in the opposing operating direction (12).

IPC 1-7
C21C 5/46

IPC 8 full level
C21C 5/46 (2006.01)

CPC (source: EP KR US)
C21C 5/46 (2013.01 - KR); **C21C 5/4633** (2013.01 - EP US)

Citation (search report)
See references of WO 2004042091A1

Cited by
DE102019208993A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004042091 A1 20040521; AR 045403 A1 20051026; AT E321894 T1 20060415; AU 2003271652 A1 20040607; AU 2003271652 B2 20080925; BR 0315298 A 20050830; BR 0315298 B1 20110405; CA 2505347 A1 20040521; CA 2505347 C 20100914; CN 1309846 C 20070411; CN 1694972 A 20051109; DE 10251964 A1 20040519; DE 50302828 D1 20060518; EG 23787 A 20070813; EP 1573073 A1 20050914; EP 1573073 B1 20060329; ES 2257690 T3 20060801; JP 2006505690 A 20060216; JP 4624794 B2 20110202; KR 101018663 B1 20110304; KR 20050057652 A 20050616; MX PA05004952 A 20050818; PL 198738 B1 20080731; PL 374973 A1 20051114; RU 2005117620 A 20060210; RU 2325446 C2 20080527; UA 79653 C2 20070710; US 2006131796 A1 20060622; US 7662336 B2 20100216; ZA 200502678 B 20051017

DOCDB simple family (application)
EP 0310760 W 20030926; AR P030104119 A 20031107; AT 03753470 T 20030926; AU 2003271652 A 20030926; BR 0315298 A 20030926; CA 2505347 A 20030926; CN 03824955 A 20030926; DE 10251964 A 20021108; DE 50302828 T 20030926; EG NA2005000205 A 20050508; EP 03753470 A 20030926; ES 03753470 T 20030926; JP 2004548723 A 20030926; KR 20057006329 A 20030926; MX PA05004952 A 20030926; PL 37497303 A 20030926; RU 2005117620 A 20030926; UA 2005005464 A 20030926; US 53424005 A 20051024; ZA 200502678 A 20050331