

Title (en)

REACTOR INTENDED FOR TITANIUM PRODUCTION

Title (de)

REAKTOR, DER FÜR DIE HERSTELLUNG VON TITAN VORGESEHEN IST

Title (fr)

REACTEUR DESTINE A LA PRODUCTION DE TITANE

Publication

EP 1989336 B1 20111116 (EN)

Application

EP 06742216 A 20060515

Priority

- CZ 2006000032 W 20060515
- CZ 2006104 A 20060217

Abstract (en)

[origin: WO2007093135A1] The reactor primarily intended for titanium production, comprising a body (1) with the tubular jacket cooled by a cooling medium, which is equipped with melting electrodes (5) and which is adjusted for introduction of gaseous medium including titanium, for introduction of liquid reducing agent and for charging of fluxing agents, and further adjusted for discharge of by-pass products and produced titanium. The subject matter of the invention consists in the fact that the interior of the reactor is divided into the reduction section (2) and the melting section (3) divided by a barrier (4) with a by pass aperture (41), where the melting section (3) comprises the melting chamber (31) in which the sets of main melting electrodes (5) are located and which is in its upper part furnished with a hopper (32) designed for charging fluxing agents, and where the reduction section (2) comprises the reaction chamber (21) into which reaction channels open being directed from the mixing chambers (23); channels for delivering gaseous titanium-content medium (24) being open into the reaction channels in their upper part and at the same time the funnel chamber (25) delivering the liquid reduction agent being connected with the reaction channels.

IPC 8 full level

C22B 34/12 (2006.01)

CPC (source: EP)

C22B 4/08 (2013.01); **C22B 34/1272** (2013.01); **C22B 34/1295** (2013.01); **F27B 3/04** (2013.01); **F27D 3/16** (2013.01); **F27D 3/18** (2013.01); **F27D 7/02** (2013.01)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007093135 A1 20070823; AT E533868 T1 20111215; CZ 2006104 A3 20070829; CZ 300346 B6 20090429; EP 1989336 A1 20081112; EP 1989336 B1 20111116

DOCDB simple family (application)

CZ 2006000032 W 20060515; AT 06742216 T 20060515; CZ 2006104 A 20060217; EP 06742216 A 20060515