

Title (en)

REACTOR FOR HEATING AND TREATING MATERIALS IN A CONTROLLED ATMOSPHERE

Title (de)

REAKTOR ZUR ERHITZUNG UND BEHANDLUNG VON MATERIALIEN IN EINER KONTROLLIERTEN ATMOSPHERE

Title (fr)

REACTEUR POUR LE RECHAUFFEMENT ET LE TRAITEMENT DE MATERIAUX EN ATMOSPHERE CONTROLEE

Publication

EP 0800640 A1 19971015 (EN)

Application

EP 95938429 A 19951107

Priority

- EP 9504372 W 19951107
- IT TO941078 A 19941228

Abstract (en)

[origin: WO9620381A1] A reactor comprises a reaction chamber (1) into the upper part of which a first preheated material is introduced. A second material, which may comprise solid, liquid and/or gaseous constituents, is introduced into the lower part of the chamber (1), at different locations and in different amounts. The solid materials on the floor of the chamber are stirred, made to advance towards discharge means (17) and indirectly heated by devices (3) rotating within the chamber (1), which devices (3) are heated while being in the upper part of the chamber (1) and yield heat to the materials while being in the lower part of the chamber (1).

IPC 1-7

F27B 9/14; **B01J 19/18**; **B01J 19/20**; **F27B 9/24**; **C04B 2/10**; **C10B 7/10**; **C10J 3/12**

IPC 8 full level

B01J 19/18 (2006.01); **B01J 19/20** (2006.01); **C04B 2/10** (2006.01); **C10B 7/10** (2006.01); **C10B 47/34** (2006.01); **C10J 3/12** (2006.01); **C10J 3/46** (2006.01); **C10J 3/48** (2006.01); **F27B 9/14** (2006.01); **F27B 9/24** (2006.01)

CPC (source: EP)

B01J 19/18 (2013.01); **B01J 19/20** (2013.01); **C04B 2/10** (2013.01); **C10B 7/10** (2013.01); **C10J 3/007** (2013.01); **C10J 3/12** (2013.01); **F27B 9/24** (2013.01); **B01J 2219/00078** (2013.01); **B01J 2219/00155** (2013.01); **B01J 2219/00157** (2013.01); **B01J 2219/00159** (2013.01); **B01J 2219/182** (2013.01); **C10J 2200/152** (2013.01); **C10J 2300/0903** (2013.01); **C10J 2300/1246** (2013.01)

Designated contracting state (EPC)

AT BE DE DK ES FR GB GR IE LU NL PT SE

DOCDB simple family (publication)

WO 9620381 A1 19960704; AU 3982395 A 19960719; BR 9510432 A 19981110; CA 2208835 A1 19960704; CN 1171840 A 19980128; EP 0800640 A1 19971015; FI 972746 A0 19970625; FI 972746 A 19970625; IT 1267362 B1 19970128; IT TO941078 A0 19941228; IT TO941078 A1 19960628; JP H10511450 A 19981104; MX 9704773 A 19971231; PL 320959 A1 19971124; ZA 9510621 B 19960808

DOCDB simple family (application)

EP 9504372 W 19951107; AU 3982395 A 19951107; BR 9510432 A 19951107; CA 2208835 A 19951107; CN 95197159 A 19951107; EP 95938429 A 19951107; FI 972746 A 19970625; IT TO941078 A 19941228; JP 52005396 A 19951107; MX 9704773 A 19951107; PL 32095995 A 19951107; ZA 9510621 A 19951213