

Title (en)

MICROWAVE ASSISTED TREATMENT OF CARBON FOAM

Title (de)

MIKROWELLENUNTERSTÜTZE BEHANDLUNG VON KOHLENSTOFFSCHAUM

Title (fr)

TRAITEMENT DE MOUSSES DE CARBONE ASSISTE PAR MICRO-ONDES

Publication

EP 1481572 A4 20080730 (EN)

Application

EP 03715973 A 20030205

Priority

- US 0303219 W 20030205
- US 7266102 A 20020206

Abstract (en)

[origin: WO03067931A1] Accelerated heat-up of carbon foam materials is achieved through the use of microwave and/or induction heating devices. According to various preferred embodiments of the present invention, such microwave/induction heating acceleration is obtained through the use of microwave/induction heating devices alone or in concert with more conventional radiation or convection based heating devices. The method of the present invention permit the relatively rapid and uniform heat-up of carbon foam materials particularly in such processes as the carbonization and/or graphitization thereof.

IPC 1-7

H05B 6/64; B29C 35/08; C01B 31/00; B01D 53/34; B32B 3/26; C08J 9/00; C08G 18/00

IPC 8 full level

H05B 6/02 (2006.01); **C01B 31/02** (2006.01); **C01B 31/04** (2006.01); **C04B 35/52** (2006.01); **C04B 38/00** (2006.01); **H05B 6/10** (2006.01); **H05B 6/80** (2006.01)

CPC (source: EP KR)

B01D 53/34 (2013.01 - KR); **B29C 35/08** (2013.01 - KR); **C01B 32/00** (2017.07 - KR); **C04B 35/522** (2013.01 - EP); **C04B 35/62655** (2013.01 - EP); **C04B 35/6267** (2013.01 - EP); **C04B 38/0022** (2013.01 - EP); **H05B 6/10** (2013.01 - EP); **H05B 6/64** (2013.01 - KR); **C04B 2235/48** (2013.01 - EP)

C-Set (source: EP)

C04B 38/0022 + **C04B 35/522** + **C04B 40/0014**

Citation (search report)

- [X] WO 0036236 A2 20000622 - ZORNES DAVID A [US]
- [E] US 2006029804 A1 20060209 - KLETT JAMES W [US], et al
- [PX] US 2002069603 A1 20020613 - ZORNES DAVID A [US]
- [E] US 2007281162 A1 20071206 - MATVIYA THOMAS M [US]
- [E] US 2007278003 A1 20071206 - MATVIYA THOMAS M [US]
- See references of WO 03067931A1

Cited by

US9975773B2

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 SE SI SK TR

Designated extension state (EPC)

AL LT LV MK RO

DOCDB simple family (publication)

WO 03067931 A1 20030814; AU 2003219705 A1 20030902; CN 1628489 A 20050615; EP 1481572 A1 20041201; EP 1481572 A4 20080730; JP 2005516883 A 20050609; KR 100979641 B1 20100902; KR 20040102004 A 20041203

DOCDB simple family (application)

US 0303219 W 20030205; AU 2003219705 A 20030205; CN 03803367 A 20030205; EP 03715973 A 20030205; JP 2003567135 A 20030205; KR 20047012159 A 20030205