

Title (en)
Continuous process for the production of carbon fibres

Title (de)
Verfahren zur kontinuierlichen Herstellung von Kohlenstofffasern

Title (fr)
Procédé continu pour la production de fibres de carbone

Publication
EP 1845179 B1 20100728 (DE)

Application
EP 06007926 A 20060415

Priority
EP 06007926 A 20060415

Abstract (en)
[origin: EP1845179A1] In continuous production of carbon fibers (CF's) (7) by carbonizing and graphitizing stabilized precursor fibers (PF's) (1) using high frequency electromagnetic waves (EMW's), the PF's are passed continuously as the inner conductor (2) of a coaxial conductor (with outer (3) and inner conductors) through a treatment zone (10) supplied with the EMW's. The EMW's are absorbed by and heat the PF's, to cause conversion into the CF's. The PF's and CF's are passed through the coaxial conductor and treatment zone under inert atmosphere.

IPC 8 full level
D01F 9/14 (2006.01); **D01F 9/22** (2006.01)

CPC (source: EP US)
D01F 9/14 (2013.01 - EP US); **D01F 9/225** (2013.01 - EP US); **D01F 9/328** (2013.01 - EP US)

Cited by
EP2460915A4; US2012137446A1; AU2010294347B2; DE102014113338A1; DE102014113338B4; DE102015110777A1; WO2011014105A1; WO2011029745A1; WO2023180971A1; WO2009049981A1

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)
EP 1845179 A1 20071017; EP 1845179 B1 20100728; AR 060505 A1 20080625; AT E475728 T1 20100815; AU 2007237521 A1 20071025; AU 2007237521 A8 20081127; AU 2007237521 B2 20110120; BR PI0710157 A2 20110823; BR PI0710157 B1 20161213; CA 2649131 A1 20071025; CA 2649131 C 20130312; CN 101421448 A 20090429; CN 101421448 B 20120523; DE 502006007528 D1 20100909; ES 2348590 T3 20101209; JP 2009533562 A 20090917; JP 5191004 B2 20130424; TW 200745395 A 20071216; TW I372798 B 20120921; US 2009277772 A1 20091112; WO 2007118596 A1 20071025

DOCDB simple family (application)
EP 06007926 A 20060415; AR P070101532 A 20070411; AT 06007926 T 20060415; AU 2007237521 A 20070331; BR PI0710157 A 20070331; CA 2649131 A 20070331; CN 200780013507 A 20070331; DE 502006007528 T 20060415; EP 2007002909 W 20070331; ES 06007926 T 20060415; JP 2009504606 A 20070331; TW 96112685 A 20070411; US 22632507 A 20070331