

Title (en)

POROUS CARBON WITH HIGH VOLUMETRIC CAPACITY, FOR DOUBLE-LAYER CAPACITORS

Title (de)

PORÖSER KOHLENSTOFF MIT HOHER VOLUMETRISCHER KAPAZITÄT FÜR DOPPELSCHICHTKONDENSATOREN

Title (fr)

CARBONE POREUX À CAPACITÉ VOLUMÉTRIQUE ÉLEVÉE POUR CONDENSATEURS À DOUBLE COUCHE

Publication

EP 2571806 A1 20130327 (DE)

Application

EP 11719227 A 20110505

Priority

- DE 102010029034 A 20100517
- EP 2011057251 W 20110505

Abstract (en)

[origin: CA2797917A1] An activated, porous carbon has a specific BET surface area of between 1400 and 1900 m²/g, with at least 80% of all of the pores, and preferably all of the pores, of the carbon having an average diameter of between 0.3 and 0.9 nm. A carbon of this kind is suitable especially for use as an electrode in a double-layer capacitor, and is obtainable by a method which comprises the following steps: a) producing a mixture of a green coke, a base, and a hydrophilic polymer which is chemically inert towards the base, b) pressing the mixture produced in step a), to form a compact, and c) activating the compact produced in step b).

IPC 1-7

H01G 9/058

IPC 8 full level

C01B 31/12 (2006.01); **B01J 20/20** (2006.01); **H01G 11/24** (2013.01); **H01G 11/34** (2013.01); **H01G 11/38** (2013.01)

CPC (source: EP US)

B01J 20/20 (2013.01 - EP US); **B01J 20/28066** (2013.01 - EP US); **B01J 20/2808** (2013.01 - EP US); **B01J 20/2809** (2013.01 - EP US); **C01B 32/342** (2017.07 - EP US); **H01B 1/04** (2013.01 - EP US); **H01G 11/24** (2013.01 - EP US); **H01G 11/34** (2013.01 - EP US); **H01G 11/38** (2013.01 - EP US); **B82Y 99/00** (2013.01 - US); **C01P 2006/12** (2013.01 - EP US); **C01P 2006/14** (2013.01 - EP US); **C01P 2006/16** (2013.01 - EP US); **Y02E 60/13** (2013.01 - EP US)

Citation (search report)

See references of WO 2011144461A1

Citation (examination)

WO 2011110543 A1 20110915 - SGL CARBON SE [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102010029034 A1 20111117; CA 2797917 A1 20111124; CA 2797917 C 20140408; EP 2571806 A1 20130327; JP 2013530114 A 20130725; US 2013077207 A1 20130328; WO 2011144461 A1 20111124

DOCDB simple family (application)

DE 102010029034 A 20100517; CA 2797917 A 20110505; EP 11719227 A 20110505; EP 2011057251 W 20110505; JP 2013510554 A 20110505; US 201213680500 A 20121119