

Title (en)  
METHOD FOR MANUFACTURING ACTIVATED CARBON

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON AKTIVKOHLE

Title (fr)  
PROCÉDÉ POUR LA FABRICATION DE CHARBON ACTIF

Publication  
**EP 2588408 A4 20140305 (EN)**

Application  
**EP 11797666 A 20110620**

Priority  
• FI 20105717 A 20100621  
• FI 2011050588 W 20110620

Abstract (en)  
[origin: WO2011161314A1] In the method a carbonous fuel is carbonised at a high temperature to carbon and the carbon is activated physically with the aid of water vapour and/or carbon dioxide into activated carbon. Activated carbon is manufactured with a co-current gasifier meant for manufacturing product gas, which gasifier has a furnace (32). The fuel is carbonised into carbon and the carbon is activated into activated carbon in the furnace of the co- current gasifier. At least a part of the water vapour used in the activation of the carbon is formed by gasifying moist fuel, whereby water vapour is generated, which functions as an oxidising gas in the activation. Wood chips, which have a moisture content of 30-40 percent by weight, may be used as the fuel. In the same way at least a part of the carbon dioxide used in the activation of the carbon is formed in the gasification process of the fuel. The product gas generated in the gasification contains carbon dioxide, which functions in the activation process as an oxidising gas either on its own or together with water vapour. Activated carbon may be manufactured as a by-product of the manufacture of product gas. When gasifying solid fuel, fly ash, which is at least partly activated carbon, is generated as a by-product.

IPC 8 full level  
**C01B 32/336** (2017.01); **C10J 3/26** (2006.01)

CPC (source: EP FI)  
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Citation (search report)  
• [X] WO 2008145814 A1 20081204 - T MI EK KAASU [FI], et al  
• [A] US 4883499 A 19891128 - BEIERLE FREDERICK P [US], et al  
• See references of WO 2011161314A1

Designated contracting state (EPC)  
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