

Title (en)  
METHOD AND SYSTEM FOR THE PRODUCTION OF METHANOL

Title (de)  
VERFAHREN UND ANLAGE ZUR HERSTELLUNG VON METHANOL

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE FABRICATION DE MÉTHANOL

Publication  
**EP 2328854 A1 20110608 (DE)**

Application  
**EP 09777512 A 20090729**

Priority  

- EP 2009005484 W 20090729
- DE 102008049622 A 20080930

Abstract (en)  
[origin: WO2010037441A1] In order to produce methanol from a syngas containing hydrogen and carbon oxides, the syngas is conducted through a first, preferably water-cooled reactor in which some of the carbon oxides are catalytically reacted to obtain methanol, and the obtained mixture containing syngas and methanol vapor is fed to a second, preferably gas-cooled reactor in which some more of the carbon oxides are reacted to obtain methanol. The mixture withdrawn from the first reactor is conducted through a gas/gas heat exchanger, in which the mixture is cooled to a temperature lying below the dew point of the mixture. Methanol is then separated from the gas stream and withdrawn in a methanol separator, while the remaining gas stream is fed to the second reactor.

IPC 8 full level  
**C07C 29/151** (2006.01); **B01D 5/00** (2006.01); **B01J 8/04** (2006.01); **C07C 31/04** (2006.01)

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**C07C 29/1516** (2013.01 - CN EP US); **B01J 2208/00274** (2013.01 - CN EP US); **B01J 2219/0004** (2013.01 - CN EP US)

Citation (search report)  
See references of WO 2010037441A1

Citation (examination)  

- EP 0152648 A1 19850828 - METALLGESELLSCHAFT AG [DE]
- EP 1210309 B1 20031203 - UHDE GMBH [DE]
- WO 2006018610 A1 20060223 - DAVY PROCESS TECHN LTD [GB], et al
- FRIEDRICH ASINGER: "Methanol - Chemie- und Energierohstoff - Die Mobilisation der Kohle", 1986

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DE 102008049622 A1 20100422; DE 102008049622 B4 20121031; EP 2328854 A1 20110608; US 2011178187 A1 20110721;  
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