

Title (en)

METHOD FOR CATALYTIC PRODUCTION OF METHANOL AND A DEVICE FOR IMPLEMENTING SAID METHOD

Title (de)

VERFAHREN ZUR KATALYTISCHEN METHANOLHERSTELLUNG SOWIE VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE PRODUCTION CATALYTIQUE DE METHANOL ET DISPOSITIF PERMETTANT LA MISE EN OEUVRE DUDIT PROCEDE

Publication

EP 1444185 A2 20040811 (DE)

Application

EP 02782960 A 20021019

Priority

- DE 10156092 A 20011116
- EP 0211718 W 20021019

Abstract (en)

[origin: WO03042144A2] The invention relates to a method for the catalytic production of methanol under pressure from a synthesis gas, which contains at least hydrogen, carbon monoxide, carbon dioxide and undesirable impurities, by means of at least one stage provided with a reactor. According to said invention, an absorption stage precedes each catalytic reaction system for producing methanol. Said absorption stage contains a catalyst material as an absorbent, which is suitable for the methanol synthesis, and operates at a temperature below the catalytic reaction temperature for the methanol production.

IPC 1-7

C07C 29/152

IPC 8 full level

C07C 29/152 (2006.01); **C07B 61/00** (2006.01); **C07C 27/00** (2006.01); **C07C 27/06** (2006.01); **C07C 29/151** (2006.01); **C07C 31/04** (2006.01)

CPC (source: EP US)

B01J 8/067 (2013.01 - EP US); **B01J 20/06** (2013.01 - EP US); **C07C 29/152** (2013.01 - EP US); **B01J 23/80** (2013.01 - EP US); **B01J 2219/00006** (2013.01 - EP US); **Y02P 20/52** (2015.11 - EP US)

Citation (search report)

See references of WO 03042144A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03042144 A2 20030522; **WO 03042144 A3 20030918**; DE 10156092 A1 20030605; EP 1444185 A2 20040811; JP 2005509016 A 20050407; JP 4564259 B2 20101020; US 2005020700 A1 20050127; US 6894081 B2 20050517

DOCDB simple family (application)

EP 0211718 W 20021019; DE 10156092 A 20011116; EP 02782960 A 20021019; JP 2003543983 A 20021019; US 49570004 A 20040514