

Title (en)
METHOD FOR PRODUCING SYNTHESIS GAS

Title (de)
VERFAHREN ZUR ERZEUGUNG VON SYNTHESSEGAS

Title (fr)
PROCÉDÉ DE PRODUCTION DE GAZ DE SYNTHÈSE

Publication
EP 3383976 A1 20181010 (DE)

Application
EP 16804694 A 20161128

Priority
• DE 102015015531 A 20151201
• EP 2016025155 W 20161128

Abstract (en)
[origin: WO2017092873A1] The invention relates to a method for producing synthesis gas (5), wherein a hydrocarbon-containing coke-oven gas (2) and a carbon-dioxide-containing converter gas (4) are introduced into a first reaction zone (Z1) and hydrogen, contained in the hydrocarbon-containing coke-oven gas (2), is at least partially reacted with carbon dioxide in order to form water and the water is thermally reacted with the hydrocarbon in order to produce synthesis gas, which contains carbon monoxide and hydrogen. In a second reaction zone (Z2), an oxygen-containing gas (3) is introduced and thermal energy is produced by means of said oxygen-containing gas and part of the hydrogen from the first reaction zone (Z1), wherein the thermal energy produced in the second reaction zone (Z2) is supplied to the first reaction zone (Z1).

IPC 8 full level
C01B 3/30 (2006.01); **C01B 3/34** (2006.01); **C01B 32/30** (2017.01); **C10K 3/00** (2006.01)

CPC (source: EP US)
C01B 3/30 (2013.01 - EP US); **C01B 3/344** (2013.01 - EP US); **C10G 2/32** (2013.01 - EP US); **C10K 3/02** (2013.01 - EP US);
C01B 2203/0216 (2013.01 - EP US); **C01B 2203/0255** (2013.01 - EP US); **C01B 2203/0272** (2013.01 - EP US);
C01B 2203/0485 (2013.01 - EP US); **C01B 2203/0822** (2013.01 - US); **C01B 2203/0844** (2013.01 - EP US); **C01B 2203/085** (2013.01 - EP US);
C01B 2203/1241 (2013.01 - US); **C01B 2203/1247** (2013.01 - EP US); **C01B 2203/1252** (2013.01 - EP US); **C01B 2203/1258** (2013.01 - EP US);
C01B 2203/142 (2013.01 - EP US); **C01B 2203/82** (2013.01 - EP US)

Citation (search report)
See references of WO 2017092873A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102015015531 A1 20170601; CN 108779404 A 20181109; CN 108779404 B 20210112; EP 3383976 A1 20181010;
US 11078077 B2 20210803; US 2018273380 A1 20180927; WO 2017092873 A1 20170608

DOCDB simple family (application)
DE 102015015531 A 20151201; CN 201680070336 A 20161128; EP 16804694 A 20161128; EP 2016025155 W 20161128;
US 201615779596 A 20161128