

Title (en)

PROCESS FOR DRY COOLING OF COKE WITH STEAM WITH SUBSEQUENT USE OF THE SYNTHESIS GAS PRODUCED

Title (de)

VERFAHREN ZUR TROCKENEN KÜHLUNG VON KOKS MIT WASSERDAMPF MIT ANSCHLIESSENDER VERWENDUNG DES ERZEUGTEN SYNTHESGASES

Title (fr)

PROCÉDÉ DE REFROIDISSEMENT DU COKE À SEC AVEC DE LA VAPEUR D'EAU SUIVI DE L'UTILISATION SUBSÉQUENTE DU GAZ DE SYNTHÈSE PRODUIT

Publication

**EP 2766453 A1 20140820 (DE)**

Application

**EP 12772878 A 20120922**

Priority

- DE 102011115698 A 20111012
- EP 2012003969 W 20120922

Abstract (en)

[origin: WO2013053427A1] The invention relates to a process for dry cooling of coke with steam with subsequent use of the synthesis gas produced, in which the coal is cyclically converted to coke and the coke, after the coking oven has been unloaded, is introduced into a cooling apparatus, and steam is introduced into the cooling apparatus for dry cooling, such that a water-gas reaction gives rise to synthesis gas composed of carbon monoxide (CO) and hydrogen (H<sub>2</sub>), and the synthesis gas produced is sent to a further use. The process allows utilization of the heat which arises in the course of coking for production of valuable synthesis gas, which can in turn be reused or used in heating, such that a very balanced energy budget of the overall process can be achieved overall.

IPC 8 full level

**C10B 39/02** (2006.01); **C01B 3/12** (2006.01); **C01B 3/56** (2006.01); **C10K 3/00** (2006.01)

CPC (source: EP RU US)

**C01B 3/12** (2013.01 - EP RU US); **C01B 3/50** (2013.01 - RU); **C01B 3/56** (2013.01 - US); **C10B 39/00** (2013.01 - US); **C10B 39/02** (2013.01 - EP RU US); **C10B 49/02** (2013.01 - US); **C10J 3/66** (2013.01 - RU); **C10K 3/00** (2013.01 - EP US); **C10K 3/006** (2013.01 - US); **C01B 2203/0283** (2013.01 - EP US); **C01B 2203/043** (2013.01 - EP US); **Y02P 20/129** (2015.11 - EP US)

Citation (search report)

See references of WO 2013053427A1

Citation (examination)

EP 0061716 A2 19821006 - HARTUNG KUHN & CO MASCHF [DE]

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)

**WO 2013053427 A1 20130418**; AR 088302 A1 20140521; DE 102011115698 A1 20130418; EP 2766453 A1 20140820; RU 2014118737 A 20151120; RU 2605125 C2 20161220; TW 201335353 A 20130901; US 2014352207 A1 20141204

DOCDB simple family (application)

**EP 2012003969 W 20120922**; AR P120103789 A 20121011; DE 102011115698 A 20111012; EP 12772878 A 20120922; RU 2014118737 A 20120922; TW 101137569 A 20121012; US 201214350758 A 20120922