

Title (en)

PROCESS FOR DECOKING A HYDROCARBON STEAM CRACKING FURNACE

Title (de)

VERFAHREN ZUR ENTKOKUNG EINES KOHLENWASSERSTOFF-DAMPF-SPALTOFENS

Title (fr)

PROCÉDÉ POUR LE DÉCOKAGE D'UN FOUR DE CRAQUAGE À LA VAPEUR D'HYDROCARBURES

Publication

EP 3186338 B1 20180926 (EN)

Application

EP 15753278 A 20150807

Priority

- US 201462042920 P 20140828
- EP 14191533 A 20141103
- US 201462092623 P 20141216
- US 2015044328 W 20150807

Abstract (en)

[origin: WO2016032730A1] A process for the decoking of a hydrocarbon steam cracking furnace having a firebox, radiant coils, a transfer line exchanger, and an oil quench connection wherein liquid quench oil is injected to directly cool the steam-cracked effluent. Decoking feed comprising steam and air is supplied to the furnace under conditions sufficient to at least partially combust coke accumulated on the interior of the radiant coils, the transfer line exchanger, and the quench connection. Quench steam is supplied and injected into the decoking process effluent in an amount sufficient to cool the decoking process effluent below the metallurgical temperature limit of downstream piping. Also, a pyrolysis furnace for the production of ethylene is also provided.

IPC 8 full level

C10G 9/16 (2006.01); **C10G 9/36** (2006.01)

CPC (source: CN EP)

C10G 9/16 (2013.01 - CN EP); **C10G 9/36** (2013.01 - CN EP); **C10G 2300/4006** (2013.01 - CN EP); **C10G 2300/802** (2013.01 - CN EP); **C10G 2300/807** (2013.01 - CN EP)

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 2016032730 A1 20160303; CN 106661461 A 20170510; CN 106661461 B 20210202; EP 3186338 A1 20170705; EP 3186338 B1 20180926; SG 11201610863Y A 20170127

DOCDB simple family (application)

US 2015044328 W 20150807; CN 201580039781 A 20150807; EP 15753278 A 20150807; SG 11201610863Y A 20150807