

Title (en)
PROCESS AND APPARATUS FOR THE PRODUCTION OF HIGH QUALITY CALCINED COKE

Publication
EP 0159903 B1 19920318 (EN)

Application
EP 85302660 A 19850416

Priority
GB 8410129 A 19840418

Abstract (en)
[origin: EP0159903A2] A process and apparatus for the production of high quality calcined coke are described. The coke feed (e.g. green coke from a delayed coker) is heated at a bulk temperature of from 650 to 850 DEG C under conditions such that the coke heating rate is no more than 100 DEG C/minute until from 50 to 90 weight percent of the volatile matter content is removed, whereafter the heated coke is calcined at a bulk temperature of from 1350 to 1470 DEG C for at least 10 minutes to produce a relatively hard and non-friable calcined coke. Preferably the calcined coke is produced in a rotary hearth furnace divided by an annular radiation shield into a central high temperature calcining zone and a surrounding devolatilizing zone, the radiation shield defining with the hearth an uninterrupted gap of sufficient width for coke to pass from the devolatilizing zone to the central zone but sufficiently narrow to prevent coke in the devolatilizing zone being substantially affected by heat generated in the central zone.

IPC 1-7
C10B 7/02; C10L 9/08

IPC 8 full level
C10B 47/30 (2006.01); **C10B 1/10** (2006.01); **C10B 7/02** (2006.01); **C10B 57/00** (2006.01); **C10L 9/08** (2006.01)

CPC (source: EP)
C10B 7/02 (2013.01); **C10L 9/08** (2013.01)

Citation (examination)
US 4291008 A 19810922 - HSU HARRY L, et al

Cited by
CN109897647A; CN111879429A; CN112877086A; CN113637494A; US2016177208A1; US10202557B2; US2019127652A1; US11708540B2

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0159903 A2 19851030; EP 0159903 A3 19870520; EP 0159903 B1 19920318; AR 242980 A1 19930630; DE 3585633 D1 19920423; ES 542343 A0 19860401; ES 8606459 A1 19860401; GB 2158088 A 19851106; GB 2158088 B 19881229; GB 8410129 D0 19840531; JP H083094 B2 19960117; JP S6134093 A 19860218; NO 170550 B 19920720; NO 170550 C 19921028; NO 851533 L 19851021

DOCDB simple family (application)
EP 85302660 A 19850416; AR 30013085 A 19850418; DE 3585633 T 19850416; ES 542343 A 19850417; GB 8410129 A 19840418; JP 8357485 A 19850418; NO 851533 A 19850417