

Title (en)

METHOD AND DEVICE FOR CONTROLLING CO CONCENTRATION IN COKE DRY-QUENCHING EQUIPMENT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR REGULIERUNG DER CO-KONZENTRIERUNG IN HOLZKOHLE TROCKEN-QUENCH EQUIPMENT

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR CONTRÔLER LA CONCENTRATION EN CO DANS UN ÉQUIPEMENT D'EXTINCTION DU COKE À SEC

Publication

**EP 2258810 A4 20170222 (EN)**

Application

**EP 09718422 A 20090305**

Priority

- JP 2009054133 W 20090305
- JP 2008058217 A 20080307

Abstract (en)

[origin: EP2258810A1] It is intended to provide a CO concentration control method and apparatus for a coke dry quenching facility, which is capable of suppressing a rapid increase in CO concentration during hot coke charging into the coke dry quenching facility. In a coke dry quenching facility designed to subject hot coke to heat exchange with a cooling gas consisting of an inert gas, in a quenching tower of the coke dry quenching facility, and blow CO-burning air into the cooling gas heated to a high temperature and discharged from the quenching tower, whereafter the cooling gas with the air is introduced to a boiler to recover heat therefrom, and the cooling gas cooled by and discharged from the boiler is circulated to the quenching tower, the air is blown at a flow rate which is increased at a rate of 10 to 95 Nm<sup>3</sup>/h per second with respect to an air flow rate to be blown during a normal operation of the coke dry quenching facility, from 150 to 15 seconds before initiation of hot coke charging into the quenching tower, and subsequently blown at a flow rate ranging from 0.7 × Q to 1.3 × Q, during a period between the initiation and completion of the hot coke charging, wherein Q is an air flow rate to be blown at an initiation timing of the hot coke charging.

IPC 8 full level

**C10B 39/02** (2006.01)

CPC (source: EP)

**C10B 39/02** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2009110535A1

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

**EP 2258810 A1 20101208; EP 2258810 A4 20170222**; JP 2009235390 A 20091015; JP 5166320 B2 20130321; TW 201000618 A 20100101; TW I408218 B 20130911; WO 2009110535 A1 20090911

DOCDB simple family (application)

**EP 09718422 A 20090305**; JP 2009044359 A 20090226; JP 2009054133 W 20090305; TW 98107131 A 20090305