

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 A1 20101208 (EN)

Application

EP 09718422 A 20090305

Priority

- JP 2009054133 W 20090305
- JP 2008058217 A 20080307

Abstract (en)

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 Nm³/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

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