

Title (en)
COKE OVEN DEVICE WITH CIRCUMFLOWED CIRCULAR CURRENT PATH FOR PRODUCING COKE AND METHOD FOR OPERATING THE COKE OVEN DEVICE AND CONTROL SYSTEM AND USE

Title (de)
KOKSOFENVORRICHTUNG MIT UMSTRÖMTEM KREISSTROMPFAD ZUM HERSTELLEN VON KOKS UND VERFAHREN ZUM BETREIBEN DER KOKSOFENVORRICHTUNG SOWIE STEUERUNGSEINRICHTUNG UND VERWENDUNG

Title (fr)
DISPOSITIF DE FOUR À COKE À CHEMIN D'ÉCOULEMENT CIRCULAIRE CONTOURNÉ PAR UN FLUX, DESTINÉ À FABRIQUER DU COKE ET PROCÉDÉ DE FONCTIONNEMENT DU DISPOSITIF DE FOUR À COKE ET ÉQUIPEMENT DE COMMANDE ET UTILISATION

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Abstract (en)
[origin: WO2019053105A1] The invention relates to a coke oven device (10) for producing coke by carbonisation of coal with minimised nitrogen oxide emission by means of measures carried out inside the coke oven device, with a plurality of double flues (13) each with a heating channel (11) subjected to flame treatment and a heating channel (12) conducting exhaust gas, said heating channels being separated from each other, in pairs, by a partition (14), and isolated from a respective oven chamber (10.2) by two stretcher walls (15), the pairs of heating channels being coupled to each other in a flow-conducting manner by means of an upper coupling passage (14.2) for internal exhaust gas recirculation, on an outer circular current path (19, 19.1), and at least one inlet is provided in the lower region on the bottom (5.4) of each double flue, selected from the following group: a coke oven gas inlet (18), a combustion air inlet (16), and a mixed gas inlet (17), at least one exhaust gas recirculation passage (14.2) being arranged more centrally than at least one of the inlets and defining a more central flow path (GP4). This allows reduced nitrogen oxide emissions. The invention also relates to a method for operating the coke oven device.

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