

Title (en)
FIRE-PROOF OVEN DOORS AND FIRE-PROOF OVEN DOOR FRAME WALLS OF A COKE OVEN BATTERY

Title (de)
FEUERFESTE OFENTÜREN UND FEUERFESTE OFENTÜRMÜHRUNGSWÄNDE EINER KOKSOFENBATTERIE

Title (fr)
PORTES DE FOUR RÉFRACTAIRES ET PAROIS D'ENCADREMENT DE PORTES DE FOURS RÉFRACTAIRES D'UNE BATTERIE DE FOURS À COKE

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Abstract (en)
[origin: WO2009071233A1] The invention relates to a heat-resistant door device for closing a horizontal coke chamber oven, said device being made of fire-proof material, wherein particularly a silica-containing material or a silica and aluminum oxide-containing material is used. The material has a low temperature expansion coefficient and has good heat insulating properties such that the door does not warp and does not become deformed during the coking process. The door device is configured by a door-surrounding coke oven wall located substantially above the door and a moveable door located beneath. Thus less cold ambient air enters the coke oven chamber during the coke discharge and the radiation loss is minimized. The door may comprise an ellipsoid convexity, with which the coal can be discharged more easily into the coking chamber. The oven wall surrounding the oven chamber may also be made of a fire-proof silica-containing or a fire-proof silica and aluminum oxide-containing material.

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