

Title (en)

METHOD FOR OPERATING A PLANT FOR PRODUCING CEMENT

Title (de)

VERFAHREN ZUM BETRIEB EINER ANLAGE ZUR HERSTELLUNG VON ZEMENT

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UNE INSTALLATION SERVANT À FABRIQUER DU CIMENT

Publication

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Application

EP 14716778 A 20140404

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Abstract (en)

[origin: WO2014166822A1] The invention relates to a method for operating a plant (1) for producing cement clinker from raw meal (2) having, as viewed in the materials flow direction, at least one calciner (3) for deacidifying the raw meal (2), and at least one rotary kiln (4) for sintering the deacidified raw meal (2) to form cement clinker (5), where the deacidified raw meal (2), after passing through the calciner (3), flows via a cyclone preheating stage (1.4) into the rotary kiln (4). The method according to the invention is distinguished by guiding of exhaust gases (6) from the rotary kiln (4) into a reactor (7), which is arranged between rotary kiln (4) and calciner (3), with fuel (8) being fed into the reactor (7) superstoichiometrically in relation to the dwell time of the exhaust gases (6) in the reactor (7), so that carbon dioxide (CO₂) contained in the exhaust gases (6) is reduced to form carbon monoxide (CO). The carbon monoxide (C=) is used as a reducing agent for nitrogen oxides (NO_x), which are chemically reduced in the reactor (7) independently of the short dwell time in the calciner (3).

IPC 8 full level

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