

Title (en)

CALCINER OF A CEMENT PRODUCTION SYSTEM, AND METHOD FOR OPERATING A CALCINER

Title (de)

CALCINATOR EINER ZEMENTHERSTELLUNGSANLAGE UND VERFAHREN ZUM BETREIBEN EINES CALCINATORS

Title (fr)

CALCINATEUR D'UNE INSTALLATION DE FABRICATION DE CIMENT ET PROCÉDÉ POUR L'EXPLOITATION D'UN CALCINATEUR

Publication

EP 3749906 A1 20201216 (DE)

Application

EP 19703661 A 20190201

Priority

- DE 102018202063 A 20180209
- EP 2019052462 W 20190201

Abstract (en)

[origin: WO2019154723A1] The invention relates to a method for operating a calciner (16) of a cement production system, having the steps of:
- ascertaining a temperature distribution on at least two measurement planes (34, 36) within the calciner (16), and - regulating/controlling the quantity of fuel (30), preheated raw meal (14), and/or combustion air (32) in the calciner (16) depending on the ascertained temperature distribution. The invention also relates to a calciner (16) of a cement production system, comprising a combustion chamber (44, 46), wherein the combustion chamber (46) is equipped with at least one inlet (48, 50, 64) for introducing the preheated raw meal (14) into the combustion chamber (44, 46), at least one fuel inlet (52, 54, 60) for introducing fuel (30) into the combustion chamber (44, 46), and at least one air inlet (56, 58, 62) for introducing combustion air (32) into the combustion chamber (44, 46). At least two measurement planes (34, 36), each of which has at least one temperature measuring device (40) for ascertaining a temperature distribution on the respective measurement plane (34, 36), are arranged in the combustion chamber (44, 46), and a control/regulating device is provided which is designed to control/regulate the quantity of preheated raw meal (14), fuel (30), and/or combustion air (32) into the combustion chamber (44, 46) depending on the ascertained temperature distribution.

IPC 8 full level

F27B 7/20 (2006.01); **F27B 7/42** (2006.01); **F27D 19/00** (2006.01); **F27D 21/00** (2006.01)

CPC (source: EP)

F27B 7/2033 (2013.01); **F27B 7/42** (2013.01); **F27D 19/00** (2013.01); **F27D 21/0014** (2013.01); **F27D 2019/0018** (2013.01)

Citation (search report)

See references of WO 2019154723A1

Cited by

US2021323864A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102018202063 A1 20190814; CN 111684228 A 20200918; CN 111684228 B 20221004; EP 3749906 A1 20201216; EP 3749906 B1 20210901; WO 2019154723 A1 20190815

DOCDB simple family (application)

DE 102018202063 A 20180209; CN 201980012084 A 20190201; EP 19703661 A 20190201; EP 2019052462 W 20190201