Title (en)

SYSTEM AND METHOD FOR THERMALLY TREATING RAW MATERIAL THAT CAN BECOME AIRBORNE

Title (de)

ANLAGE UND VERFAHREN ZUR THERMISCHEN BEHANDLUNG VON FLUGFÄHIGEM ROHMATERIAL

Title (fr)

INSTALLATION ET PROCÉDÉ DE TRAITEMENT THERMIQUE D'UNE MATIÈRE PREMIÈRE DISPERSIBLE

Publication

EP 4237777 A1 20230906 (DE)

Application

EP 21791426 A 20211022

Priority

- DE 102020128612 A 20201030
- BE 202005774 A 20201030
- EP 2021079306 W 20211022

Abstract (en)

[origin: WO2022090068A1] The present invention relates to a system (16) for thermally treating raw material (14), in particular a calciner (16), comprising a pipe (32) through which hot gases (52) flow, and at least one means (56) for adding the raw material (48), wherein the system (10) comprises a drying chamber (28) for drying sludgy material, which drying chamber is connected to the pipe (32) and has means (38) for adding fuel (36) and a means (40) which is separate therefrom for adding sludgy materials (68) into the drying chamber (28). The present invention also relates to a method for thermally treating raw material (48), in particular cement raw meal and/or mineral products, wherein the raw material (48) is introduced into a pipe (32) through which hot gases flow and is thermally treated by means of the hot gases (52), wherein fuel (36) and, separately therefrom, sludgy material (68) are introduced into a drying chamber (28), and wherein the sludgy material (68) is dried therein and the heat generated in the drying chamber (28) is at least partly fed to the pipe (32).

IPC 8 full level

F27B 7/20 (2006.01); **C04B 7/43** (2006.01); **C04B 7/44** (2006.01)

CPC (source: EP)

F27B 7/2033 (2013.01)

Citation (search report)

See references of WO 2022090068A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022090068 A1 20220505; EP 4237777 A1 20230906

DOCDB simple family (application)

EP 2021079306 W 20211022; EP 21791426 A 20211022