

Title (en)
STOKER FURNACE

Title (de)
BESCHICKUNGSOFFEN

Title (fr)
FOUR À FOYER MÉCANIQUE

Publication
EP 3845806 A1 20210707 (EN)

Application
EP 18931954 A 20181026

Priority
• JP 2018039867 W 20181026
• JP 2018161817 A 20180830

Abstract (en)
Provided is a stoker furnace having: a burn-off-point detection device (31) that acquires a detection signal corresponding to the burn-off-point (P) of an object (B) to be incinerated; a first drive device (18a) that drives moving grates of a drying stage (11); a second drive device (18b) that drives moving grates of a combustion stage (12); a third drive device (18c) that drives moving grates of a post-combustion stage (13); and a control device (30), wherein the drying stage (11) is disposed to be inclined such that a downstream side thereof faces downward, the combustion stage (12) and the post-combustion stage (13) are disposed to be inclined such that downstream sides thereof face upward, and the control device controls the second drive device and the third drive device such that when the position of the burn-off-point (P) does not exceed a target burn-off-point, the moving grates of the combustion stage (12) and the moving grates of the post-combustion stage (13) are not changed, and when the position of the burn-off-point (P) is located downstream of the target burn-off-point, the drive speed of the moving grates of the post-combustion stage (13) is slower than the drive speed of the moving grates of the combustion stage (12).

IPC 8 full level
F23G 5/00 (2006.01); **F23G 5/50** (2006.01); **F23H 7/08** (2006.01)

CPC (source: EP KR RU)
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F23H 7/08 (2013.01 - KR RU)

Cited by
EP4253839A1; DE102022107219A1

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)
EP 3845806 A1 20210707; **EP 3845806 A4 20220608**; **EP 3845806 B1 20240717**; BR 112020008004 A2 20200818;
BR 112020008004 B1 20210217; CN 111133251 A 20200508; CN 111133251 B 20210112; DK 3845806 T3 20240930;
JP 2020034232 A 20200305; JP 6450987 B1 20190116; KR 102318973 B1 20211028; KR 20210040158 A 20210412;
PH 12020550227 A1 20210208; RU 2731612 C1 20200907; SG 11202003129P A 20200729; TW 202009419 A 20200301;
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