

Title (en)  
STEAM BOILER FOR WASTE INCINERATION

Title (de)  
DAMPFKESSEL FÜR DIE ABFALLVERBRENNUNG

Title (fr)  
CHAUDIÈRE À VAPEUR POUR L'INCINÉRATION DE DÉCHETS

Publication  
**EP 3870896 A1 20210901 (EN)**

Application  
**EP 19835228 A 20191128**

Priority  
• CZ 2019227 A 20190411  
• CZ 2019050056 W 20191128

Abstract (en)  
[origin: WO2020207515A1] Steam boiler for waste incineration, including a combustion chamber (1) comprising a combustion chamber cavity surrounded by combustion chamber walls, to the combustion chamber (1) by an opening for flue gas flow followed by at least one or more consecutive flue-gas ducts (2) interconnected by openings for flue gas flow, where each flue-gas duct (2) comprises a flue-gas duct cavity surrounded by flue- gas duct walls, where the steam boiler further comprises at least one evaporator (11) for steam production, a feed pump (8) connected to a water source (9), a steam drum (3), at least one heater (6) having an inlet connected through the feed pump (8) to a water source (9), at least one heater (6) having an outlet connected to the steam drum (3), wherein all included evaporators (11) have inlet and outlet connected to the steam drum (3), from which a steam piping (13) leads to the connection to the steam turbine the summary of the invention is based on that at least one heater (6) and/or at least one evaporating surface with its heat exchange surfaces form walls of the combustion chamber (1), wherein at least one evaporator (11), included in the steam boiler, is located in a flue-gas duct (2).

IPC 8 full level  
**F22B 31/04** (2006.01); **F23G 5/00** (2006.01); **F23G 5/44** (2006.01)

CPC (source: CZ EP)  
**F22B 5/04** (2013.01 - EP); **F22B 21/00** (2013.01 - CZ); **F22B 31/045** (2013.01 - EP); **F22D 1/02** (2013.01 - CZ); **F22D 1/28** (2013.01 - CZ); **F23G 5/00** (2013.01 - CZ); **F23G 5/46** (2013.01 - CZ); **F23G 2206/203** (2013.01 - EP)

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)  
**WO 2020207515 A1 20201015**; CZ 2019227 A3 20200401; CZ 308268 B6 20200401; EP 3870896 A1 20210901; EP 3870896 B1 20220824; UA 125894 C2 20220629

DOCDB simple family (application)  
**CZ 2019050056 W 20191128**; CZ 2019227 A 20190411; EP 19835228 A 20191128; UA A202106213 A 20191128