

Title (en)

BIOMASS STOVE, IN PARTICULAR FOR PELLET, EXHIBITING AN AUTOMATIC OPERATION

Title (de)

BIOMASSEOFEN, INSBESONDERE FÜR PELLETS, MIT AUTOMATISCHEM BETRIEB

Title (fr)

POÊLE À BIOMASSE, EN PARTICULIER POUR GRANULÉS, PRÉSENTANT UN FONCTIONNEMENT AUTOMATIQUE

Publication

EP 3236151 A1 20171025 (EN)

Application

EP 17166837 A 20170418

Priority

IT UA20162790 A 20160421

Abstract (en)

An innovative biomass stove (10), in particular pellet, comprising: - a heat generator (11) apt to be loaded with a biomass (BM); - a feeding system (13) apt to feed a primary flow (f) of combustion air to the heat generator (11), so as to produce a combustion flame (12) and generate heat; - a ventilation system (14) including a fan (14a) apt to blow a secondary flow (14b) of forced air in the gaps of the biomass (BM), loaded in the heat generator (11), so as to increase the size of the flame combustion (12); - a temperature sensor (16) apt to detect the temperature (Tf) of the combustion flame (12); and - an electronic control unit (18) apt to govern and control the operation of the biomass stove (10); wherein the electronic control unit (18, SW) is configured to automatically control the speed of the fan (14a) and consequently the secondary flow of forced air aimed at supplying the combustion of the biomass, as a function of the temperature (Tf) of the combustion flame (12), in particular during the final phase of the biomass combustion cycle and therefore its carbonisation, so as to determine the complete combustion of the biomass (BM) at the end of its combustion cycle.

IPC 8 full level

F23B 60/02 (2006.01); **F23B 90/04** (2011.01); **F23N 3/08** (2006.01); **F23N 5/00** (2006.01); **F23N 5/02** (2006.01); **F24B 7/00** (2006.01)

CPC (source: EP)

F23B 60/02 (2013.01); **F23B 90/04** (2013.01); **F23N 3/08** (2013.01); **F23N 5/003** (2013.01); **F23N 5/02** (2013.01); **F24B 5/023** (2013.01); **F24B 7/00** (2013.01); **F23N 2225/10** (2020.01); **F23N 2225/14** (2020.01); **F23N 2233/08** (2020.01); **F23N 2239/02** (2020.01)

Citation (search report)

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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 3236151 A1 20171025; IT UA20162790 A1 20171021

DOCDB simple family (application)

EP 17166837 A 20170418; IT UA20162790 A 20160421