

Title (en)

Bio-mass burner.

Title (de)

Biomassenbrenner.

Title (fr)

Brûleur à biomasse.

Publication

EP 0071681 A1 19830216 (EN)

Application

EP 81303644 A 19810810

Priority

EP 81303644 A 19810810

Abstract (en)

Bio-mass fuel is fed on demand by gravity through top opening (16) past baffles (22) and (24) onto a grate (42) above which tubes (30) and (34) form an auxiliary grate. Combustion air is supplied by fan (44) and a supplementary burner (60) is used for pre-heating. Air from (28) is fed via manifold (26a), tubes (30), manifold (32a), tubes (34), manifold (36a) and pipe (38) to venturi (40). The heated air from the venturi (40) thus draws combustion products from the first combustion chamber and these are burnt at high temperature in the outlet tube (50) which leads to a second combustion chamber and may replace a conventional oil fuel burner.

IPC 1-7

F23G 9/00; F23G 5/08; F23H 3/02; F23B 1/38; F23B 5/04

IPC 8 full level

F23G 5/16 (2006.01); **F23G 7/10** (2006.01); **F23H 3/02** (2006.01)

CPC (source: EP)

F23B 1/38 (2013.01); **F23B 5/04** (2013.01); **F23G 5/16** (2013.01); **F23G 7/10** (2013.01); **F23H 3/02** (2013.01)

Citation (search report)

- FR 1051166 A 19540113
- GB 2056638 A 19810318 - YAMAMOTO S
- FR 396304 A 19090407 - JOHANNES KAUTH [DE], et al
- FR 2372384 A1 19780623 - MILLE LOUIS [FR]
- US 1996585 A 19350402 - LINTON MCEVER WILLIAM
- US 4254715 A 19810310 - LAHAYE PAUL G, et al

Cited by

EP0841519A1; FR2755501A1; EP0663565A3; US5636581A; WO9633371A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0071681 A1 19830216

DOCDB simple family (application)

EP 81303644 A 19810810