

Title (en)
GASIFIER STOVE

Title (de)
VERGASEROFEN

Title (fr)
FOURNEAU DE GAZÉIFICATEUR

Publication
EP 4124797 A1 20230201 (EN)

Application
EP 22185785 A 20220719

Priority
IT 202100019781 A 20210726

Abstract (en)

A gasifier stove (1) comprising a containment structure (2) housing a storage tank (3) for biomass fuel (4), a gasification crucible (6) connected to a combustion chamber (15) and being fluidically connectable to a heat exchanger, wherein the gasification crucible (6) is hollow and extends axially, along a vertical axis (Y-Y), from a lower end (7) having a first opening (8), to an upper end (11), having a second opening (12). The gasification crucible (6) is connected to the tank (3) by means of an outlet pipe (14) which leads to the crucible (6) through a feed hole (114), positioned, along the vertical axis (Y-Y), between the lower end (7) and the upper end (11). Advantageously, the gasification crucible (6) has a variable cross-section along its axial extension, measured perpendicular to said vertical axis (Y-Y), and, at the lower end (7), the first opening (8) has an inlet cross-section smaller than a feed cross-section at the feed hole (114) of the pellets (4).

IPC 8 full level
F24B 1/00 (2006.01)

CPC (source: EP)
F24B 1/00 (2013.01)

Citation (applicant)
EP 3356495 A1 20180808 - BLUCOMB S R L [IT]

Citation (search report)

- [X] DE 20017575 U1 20001221 - TIBA AG BUBENDORF [CH]
- [A] CN 206803220 U 20171226 - SANHE CITY YIYA ENERGY EQUIPMENT MFG CO LTD
- [A] CN 200993391 Y 20071219 - DAI XIAOLONG [CN]
- [A] CN 201166389 Y 20081217 - LIU ZHANGYU [CN]
- [A] DE 20001555 U1 20000413 - GAAN GMBH ZUERICH [CH]
- [A] CN 201177279 Y 20090107 - JIAO CHEN [CN]
- [A] DE 8900558 U1 19890427

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)
EP 4124797 A1 20230201; IT 202100019781 A1 20230126

DOCDB simple family (application)
EP 22185785 A 20220719; IT 202100019781 A 20210726