

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)
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