

Title (en)
SOLID FUEL GASIFYING COMBUSTION APPARATUS

Publication
EP 0156363 A3 19860409 (DE)

Application
EP 85103590 A 19850326

Priority
• DE 3411822 A 19840330
• DE 3421972 A 19840614

Abstract (en)
[origin: EP0156363A2] The solid fuel gasifying combustion apparatus is intended for gasifying solid fuels such as wood pieces, wood briquettes, wood chips or the like and consists of a filling shaft provided at the bottom with a grate and ash collection chamber and of a heating gas draught hole leading to an afterheating surface. In the inner space (1) of a gastight enclosure housing (2), the lower region (3') of the filling shaft (3) is designed and arranged in the form of a double conical or cylindrical extension (4). In the shoulder (5) of the upper frustum (6), a number of heating gas outflow openings (7) are provided, distributed all around. These openings (7) open into an annular gas combustion channel (9) which surrounds the filling shaft (3') and is provided with the heating gas draught hole (8). The extension (4) including annular gas combustion channel (9) and the part of the filling shaft (3') which is upwardly adjacent thereto and arranged inside the enclosure housing (2) are made from refractory preforms.
<IMAGE>

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IPC 8 full level
F23H 9/02 (2006.01)

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Citation (search report)
• [X] US 1510442 A 19240930 - HENRY WEST JOHN, et al
• [Y] FR 796706 A 19360414
• [Y] FR 1114566 A 19560413
• [A] US 2653554 A 19530929 - HATTON WILLARD J, et al
• [A] US 2039423 A 19360505 - JOHNSON ALLEN J, et al
• [A] US 2222893 A 19401126 - HUGO ALLEMANN
• [A] FR 808783 A 19370215

Cited by
DE102013017856A1; DE102013017850A1; DE102013017863A1; DE102013017851B4; DE102013017860A1; DE102013017861A1; WO2015058863A1; US4892810A; CN102734921A; EP4184056A1; DE102013017851A1; ITPN20120027A1; CN114729743A; CN114729744A; DE102013017860B4; EP3789673A1; WO2021043895A1; WO9701730A1; US11635231B2; US11708999B2; WO2014064300A1

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