

Title (en)
STAGED DOWN DRAUGHT COMBUSTION DEVICE FOR ALTERNATIVE FUELS

Publication
EP 0356697 B1 19921209 (EN)

Application
EP 89113575 A 19890724

Priority
IT 6520588 A 19880830

Abstract (en)
[origin: EP0356697A2] The two-stage reverse flame thermocombustor is consisting of four shells (1,2,3,4,) forming four chambers (A,B,C,D) of which the upper chamber (A) is acting as a storage space for fuel mixed with limestone. The second chamber (B) surrounding the first chamber, preheats the precombustion air,the flow rate of which is regulated by a fan (8). The third chamber 3, located below the first, is closed at its bottom end by a rotary disc (11) for elimination of the ashes and solid residues. The first combustion stage of the fuel and limestone takes place in this third chamber (C). The combustion gases enter the fourth chamber (D) through radial slots (13) where more air is added through a ring-shaped bustle main (33) and nozzles (15) for final combustion at high temperature. Combustion gases are conveyed to the users through the duct (16).

IPC 1-7
F23G 5/027; F23G 5/16; F23G 5/26; F23J 1/00; F23J 7/00; F23L 15/00

IPC 8 full level
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Cited by
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