

Title (en)

Staged down draught combustion device for alternative fuels.

Title (de)

Stufenverbrennungsvorrichtung mit abwärts gerichtetem Zuge für alternative Brennstoffe.

Title (fr)

Dispositif de combustion étagée à tirage renversé pour des combustibles alternatifs.

Publication

EP 0356697 A2 19900307 (EN)

Application

EP 89113575 A 19890724

Priority

IT 6520588 A 19880830

Abstract (en)

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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CPC (source: EP)

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EP 0356697 A2 19900307; **EP 0356697 A3 19900822**; **EP 0356697 B1 19921209**; AT E83304 T1 19921215; DE 68903809 D1 19930121; DE 68903809 T2 19930415; IT 1225746 B 19901126; IT 8865205 A0 19880830

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