

Title (en)

CYCLONIC COMBUSTOR AND BOILER INCORPORATING SUCH A COMBUSTOR

Publication

EP 0266857 A3 19881117 (EN)

Application

EP 87304216 A 19870512

Priority

US 92809686 A 19861107

Abstract (en)

[origin: EP0266857A2] A boiler with a cyclonic combustor includes a first chamber (22) which is substantially uncooled and has a refractory lining (30), a second chamber (24) in fluid communication with the first chamber (22), ducts (28, 40) for supplying air and fuel directly into the first chamber (22) and for forming a cyclonic flow pattern of hot gases for combustion within the first and second chambers (22, 24), an exit throat (42) at the end of the second chamber (24) and a heat exchanger (48, 50, 52) surrounding the second chamber (24) for keeping the combustion temperature in both chambers low.

IPC 1-7

F23C 3/00; F23M 5/00; F23M 9/00; F24H 1/28

IPC 8 full level

F23D 1/02 (2006.01); **F22B 7/12** (2006.01); **F22B 7/20** (2006.01); **F22B 31/00** (2006.01); **F23C 3/00** (2006.01); **F23C 99/00** (2006.01);
F23M 5/08 (2006.01); **F23M 9/06** (2006.01); **F24H 1/28** (2006.01)

CPC (source: EP KR)

F22B 7/12 (2013.01 - KR); **F23C 3/006** (2013.01 - EP); **F23M 5/08** (2013.01 - EP); **F23M 9/06** (2013.01 - EP); **F24H 1/285** (2013.01 - EP)

Citation (search report)

- [Y] EP 0143510 A1 19850605 - AQUA CHEM INC
- [Y] EP 0130225 A1 19850109 - RUHRKOHLE CARBORAT GMBH [DE]

Cited by

EP0525734A3; US5473881A; EP0866269A1; US5961315A

Designated contracting state (EPC)

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DOCDB simple family (publication)

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