

Title (en)

METHOD AND DEVICE FOR THE COMBUSTION OF LIQUID AND/OR SOLID PULVERULENT FUELS

Publication

EP 0202443 B1 19891220 (DE)

Application

EP 86104628 A 19860404

Priority

DE 3518080 A 19850520

Abstract (en)

[origin: US4679512A] A method of and apparatus for burning liquid fuels such as oil or the like and/or solid fuels, especially coal, peat or the like, in pulverized form, the latter either in dry condition or mixed with a carrier liquid such as water and/or oil to form an emulsion being introduced together with the liquid fuel into a combustion chamber while creating a recirculating flow profile, said flow profile being confined by a rotating outer flow of air. For thorough breaking-up of the fuel introduced into the combustion chamber the fuel inlet is constituted by a plurality of inlet ports approximately evenly distributed along a circumference, especially a circle, the liquid-fuel inlet ports and the inlet ports for solid fuel or a fuel emulsion being alternately arranged along said circumference. The fuel inlet ports may be directed either radially and/or at an outward inclination in the direction of flow, based on the longitudinal axis of the combustion chamber. Preferably, a central compressed-air injection is also provided.

IPC 1-7

F23C 7/00; **F23D 17/00**

IPC 8 full level

F23C 1/10 (2006.01); **F23C 7/00** (2006.01); **F23D 1/00** (2006.01); **F23D 17/00** (2006.01); **F23D 99/00** (2010.01)

CPC (source: EP US)

F23C 7/004 (2013.01 - EP US); **F23D 1/005** (2013.01 - EP US); **F23D 17/007** (2013.01 - EP US); **F23D 2900/00016** (2013.01 - EP US)

Cited by

DE19920535A1; EP0536556A3; EP2821700A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0202443 A2 19861126; **EP 0202443 A3 19870930**; **EP 0202443 B1 19891220**; AT E48906 T1 19900115; AU 5719786 A 19861127; CN 86103365 A 19861224; DE 3518080 A1 19861120; DE 3518080 C2 19870723; DE 3667718 D1 19900125; DK 229786 A 19861121; DK 229786 D0 19860516; FI 861942 A0 19860509; FI 861942 A 19861121; JP H0454843 B2 19920901; JP S6284216 A 19870417; US 4679512 A 19870714

DOCDB simple family (application)

EP 86104628 A 19860404; AT 86104628 T 19860404; AU 5719786 A 19860506; CN 86103365 A 19860519; DE 3518080 A 19850520; DE 3667718 T 19860404; DK 229786 A 19860516; FI 861942 A 19860509; JP 10875786 A 19860514; US 85513486 A 19860423