

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.

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IPC 8 full level

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CPC (source: EP US)

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