

Title (en)

COMBUSTION CHAMBER DEVICE WITH A PRECOMBUSTION CHAMBER FOR AN UNDERSTOICHIOMETRIC COMBUSTION

Publication

**EP 0252315 B1 19921007 (DE)**

Application

**EP 87108265 A 19870608**

Priority

CH 274886 A 19860708

Abstract (en)

[origin: EP0252315A1] The precombustion chamber (1), in which liquid fuel is combusted understoichiometrically, is arranged upstream of a secondary combustion chamber (16), in which complete combustion takes place overstoichiometrically. The understoichiometric combustion air volume (11) for the precombustion chamber (2) is blown in close to the wall from the outlet channel (3) upwards into the housing (2), which is heart-shaped in axial section. The injection nozzles (7) for the fuel are arranged in such a way that the fuel jets (8) shield the layer of combustion air close to the wall from the partially combusted fuel mixture flowing over it through the outlet channel (3) into the secondary combustion chamber (16). At the end of the outlet channel (3), the additional air volume required for complete combustion in the secondary combustion chamber (16) is mixed in with the partially combusted fuel mixture. <IMAGE>

IPC 1-7

**F23C 3/00; F23C 6/04; F23C 7/02**

IPC 8 full level

**F23R 3/34** (2006.01); **F23C 3/00** (2006.01); **F23C 6/04** (2006.01); **F23C 7/02** (2006.01); **F23R 3/42** (2006.01)

CPC (source: EP US)

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