

Title (en)
Combustion installation.

Title (de)
Feuerungsanlage.

Title (fr)
Installation de combustion.

Publication
EP 0394911 B1 19940330 (DE)

Application
EP 90107645 A 19900423

Priority
CH 161289 A 19890427

Abstract (en)
[origin: JPH02298702A] PURPOSE: To reduce the emission of a harmful substance, by providing a mixing/ carrying device of fresh air and an exhaust gas, and a heat transfer member being incorporated in a combustion device at the upstream and downstream sides of a burner. respectively. CONSTITUTION: An exhaust gas C being taken from a chimney and fresh air D being taken from ambient atmosphere become a desired mixed air H through quantity-adjusting devices E and F and are supplied into a combustion device N by a fan G. The mixed gas H is adjusted by a by pass flap K so that it is sent to a heat transfer member M being incorporated in a furnace cylinder P and reaches a target temperature. Mixed air 15 reaching the target temperature enters a burner A and is mixed with a liquid fuel 12 that flows out of a fuel nozzle 3. The fuel is rapidly vaporized and starts burning, and one portion of heat is also transferred to the mixed air H via the heat transfer member M. With this configuration, the emission of a harmful substance can be reduced.

IPC 1-7
F23C 9/08; **F23C 7/06**; **F23D 17/00**

IPC 8 full level
F23C 5/32 (2006.01); **F23C 7/06** (2006.01); **F23C 9/08** (2006.01); **F23C 99/00** (2006.01); **F23D 17/00** (2006.01)

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F23C 7/06 (2013.01 - EP US); **F23C 9/08** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US)

Cited by
CN104373961A; EP0436113A1; DE102011012493A1; DE102011012493B4; DE102006000174A1; DE102006000174B4; DE102006000174B9

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