

Title (en)
Combustion installation.

Title (de)
Feuerungsanlage.

Title (fr)
Installation de combustion.

Publication
EP 0394911 A1 19901031 (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.

Abstract (de)
Bei einer Feuerungsanlage wird dem Brenner (A) über eine Misch/Fördereinrichtung (EFG) ein Gemisch aus Frischluft (D) und Abgas (C) zugeführt. In der Feuerungsanlage ist ein Wärmeüberträger (M) vorgesehen, der die kalorische Aufbereitung des Gemisches (H) vornimmt, bevor dieses in den Brenner (A) eingegeben wird.

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F23C 7/06; F23C 9/08; 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)

CPC (source: EP US)
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)

Citation (search report)
• [X] FR 2370235 A1 19780602 - INTERLIZ ANSTALT [LI]
• [AP] EP 0321809 B1 19910515
• [A] EP 0210462 A1 19870204 - BBC BROWN BOVERI & CIE [CH]

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

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