

Title (en)

Method and installation for the purification of exhaust air from a tenter or a singing machine.

Title (de)

Verfahren und Anlage zur Reinigung der Abluft eines Spannrahmens oder einer Senge.

Title (fr)

Procédé et installation pour la purification de l'air évacué d'une rame ou d'une machine de flambage.

Publication

EP 0319468 B1 19940202 (DE)

Application

EP 88810777 A 19881111

Priority

CH 468987 A 19871201

Abstract (en)

[origin: JPH01201571A] PURPOSE: To provide a method for purifying exhaust air from a tenter frame or a singer, capable of perfectly burning toxic organic substances in the exhaust air to purify the exhaust air and reducing the amount of a fuel required for a heat-supplying device by supplying the exhaust air of the tenter frame, etc., together with a largely excessive air as air for combustion into the heat-supplying device such as a boiler. CONSTITUTION: This method for purifying exhaust air from a tenter frame or a singer comprises supplying the exhaust air of the tenter frame or the singer to a burner 13 in an energy-supplying device 21 through a heat-insulating line 10 using a fan 7 as a part of air for combustion. The burner 13 is operated with a variable and high excess of air of $\lambda=1.5$ to 3.5. The heat of the exhaust gas is recovered with three heat exchangers 29, 30, 31 disposed on the exhaust gas line of the heat-supplying device 21, and the exhaust gas is exhausted out from a flue 36. Thereby, the sensible heat and latent heat of the exhaust gas can be recovered, and supply water can preliminarily be heated with the recovered heat.

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F23G 7/06; **D06B 23/20**; **F23N 1/02**

IPC 8 full level

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CPC (source: EP US)

D06C 3/02 (2013.01 - EP US); **F23G 7/065** (2013.01 - EP US); **F23N 1/02** (2013.01 - EP US)

Citation (examination)

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- "Die Industriefeuerung", 1980, Seite 49, Vulkan-Verlag
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EP0463839A3; EP0413091A1; US5215018A; EP0484280A3; TR25561A

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DOCDB simple family (application)

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