

Title (en)

METHOD AND INSTALLATION FOR THE PURIFICATION OF EXHAUST AIR FROM A TENTER OR A SINGING MACHINE

Publication

EP 0319468 A3 19910109 (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; **F23N 1/02**; **D06B 23/20**

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 (search report)

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- [AD] MELLIAND TEXTILBERICHTE, Nr. 8, 1985, Seiten 603-604; P. TER DUIS: "Wirtschaftliche Nutzung von heisser Abluft als Verbrennungsluft"
- [A] PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 326 (M-441)[2049], 21. Dezember 1985; & JP-A-60 159 516 (TOSHIBA) 21-08-1985

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