

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.

IPC 1-7

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

IPC 8 full level

B01D 53/38 (2006.01); **B01D 53/74** (2006.01); **D06B 23/20** (2006.01); **D06C 3/00** (2006.01); **D06C 3/02** (2006.01); **D06C 9/00** (2006.01);
F23G 7/06 (2006.01); **F23N 1/02** (2006.01); **F22D 11/00** (2006.01)

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] MELLAND TEXTILBERICHTE, Nr. 8, 1985, Seiten 603-604; P. TER DUIS: "Wirtschaftliche Nutzung von heisser Abluft als Verbrennungsluft"
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Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0319468 A2 19890607; EP 0319468 A3 19910109; EP 0319468 B1 19940202; AT E101254 T1 19940215; CA 1305656 C 19920728;
CH 675904 A5 19901115; DE 3887661 D1 19940317; DK 666588 A 19890602; DK 666588 D0 19881129; JP H01201571 A 19890814;
US 4890581 A 19900102

DOCDB simple family (application)

EP 88810777 A 19881111; AT 88810777 T 19881111; CA 584573 A 19881130; CH 468987 A 19871201; DE 3887661 T 19881111;
DK 666588 A 19881129; JP 30513688 A 19881130; US 27600088 A 19881125