

Title (en)
PROCESS AND DEVICE FOR THE COOLING OF FINE DUST

Publication
EP 0313758 B1 19911016 (DE)

Application
EP 88113849 A 19880825

Priority
DE 3736521 A 19871028

Abstract (en)
[origin: JPH01142314A] PURPOSE: To avoid the corrosion and damage caused by dust, and the erosion, damage, etc., caused by a conveyed gas, by providing a pressure management system which works to lower the pressure between two cooling stages. CONSTITUTION: The flue gas side of the combustion chamber 1 of fluidized-bed combustion equipment used under a pressure is connected to a separator 2 which separates flue dust from a flue gas. The separator 2 is provided with a gas outlet 3 and a solid outlet 3, and the solid outlet 4 is connected to a cooler 5 which cools a mixture of the flue dust and flue gas to a temperature higher than the water and acid dew point of the used flue gas. The inner tube of the cooler 5 is connected to another separator 10 which separates the flue dust from the flue gas. The solid outlet 12 of the separator 10 is connected to a pressure management system composed of a storage tank 15 and a management tank 16, and the solid outlet of the tank 16 is connected to an injector 26. The injector 26 is connected to a second cooler 28.

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F23C 11/02; F23J 3/06

IPC 8 full level
B01D 46/48 (2006.01); **F23C 10/16** (2006.01); **F23J 3/06** (2006.01); **F23J 15/00** (2006.01); **F23J 15/02** (2006.01)

CPC (source: EP US)
F23C 10/16 (2013.01 - EP US); **F23J 3/06** (2013.01 - EP US)

Citation (examination)
VGB Kraftwerkstechnik 63 (1983), Seiten 422 bis 427

Cited by
CN104401735A; CN104401734A

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EP 0313758 A1 19890503; EP 0313758 B1 19911016; AT E68579 T1 19911115; CA 1305310 C 19920721; DE 3736521 C1 19890216; DE 3865626 D1 19911121; DK 165020 B 19920928; DK 165020 C 19930208; DK 596088 A 19890429; DK 596088 D0 19881027; ES 2026614 T3 19920501; GR 3003014 T3 19930217; JP 2627938 B2 19970709; JP H01142314 A 19890605; US 4877423 A 19891031

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