

Title (en)

Method and device for the treatment of humid mixtures of gas and dust.

Title (de)

Verfahren und Vorrichtung zur Behandlung von feuchten Gas-Staub-Gemischen.

Title (fr)

Procédé et dispositif pour le traitement des mélanges humides de gaz et de poussières.

Publication

EP 0484955 A2 19920513 (DE)

Application

EP 91119030 A 19911107

Priority

DE 4035730 A 19901109

Abstract (en)

[origin: JPH0686947A] PURPOSE: To prevent the formation of an explosive dust mixture by using an inert gas heated or preheated to a temperature higher than the dew point temperature of the residual moisture of a dust mixture during transportation or intermediate storage of the dust mixture. CONSTITUTION: Flue gas and hot process gas flow in a mill, drying plant and the moist explosive gas, dust mixture and more particularly coal dust mixture at fluidized transportation and storage of the dust generated are to be problem. The pressure portion of a refractory lining 6 is, thereupon, provided with a pipe coil 7 in the longitudinal direction of this lining. An inlet pipeline 8 and an outlet pipeline 9 for the additive external inert gas heated to the temperature higher than the dew point temperature of the hot process gas and the residual moisture of the dust mixture are connected to this pipe coil 7. The cold inert gas is supplied via a corresponding valve by the inlet pipe 8 and the outlet pipeline 9 is connected to a distribution system communicating with a storage bin or transporting pipeline.

Abstract (de)

Verfahren zur Behandlung insbesondere Kohlenstaub-Gemischen in Mahltrocknungsanlagen. Um ein Auskondensieren von Restfeuchte von in eventuell zwischengelagertem Staub zu verhindern, wobei für den Transport des Kohlenstaubes bzw. die Zwischenlagerung aufgeheiztes Inertgas eingesetzt wird. Eine Vorrichtung zur Aufheizung von Inertgas enthält eine Rohrwendel (7) welche in Längsrichtung der Ausmauerung (6) eines Rauchgaserzeugers (2) vorgesehen ist. <IMAGE>

IPC 1-7

B02C 23/18; **F23K 1/04**; **F24H 3/08**

IPC 8 full level

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CPC (source: EP US)

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