

Title (en)

METHOD OF INCREASING THE DEGREE OF SEPARATION IN A CYCLONE, AND CYCLONE FOR CARRYING OUT SAID METHOD

Publication

**EP 0141073 B1 19891129 (DE)**

Application

**EP 84109299 A 19840806**

Priority

SE 8304429 A 19830816

Abstract (en)

[origin: US4606739A] The separating efficiency of a cyclone separator used for removing solid particles from a gas stream (for example ash particles from the combustion gas which is passed to a gas turbine) is increased by retarding the particles before they arrive at the cyclone and thereafter accelerating them over a short distance before they enter the cyclone. In this way large particles will have a lower speed than small particles when entering the cyclone. Despite a high velocity of the transport gas and a high inlet velocity for small particles, it is possible to obtain an inlet velocity for larger particles which is desirably low from the point of view of reducing erosion of the cyclone separator. The separation of fine particles is improved. The retardation of the particles may take place in a T-shaped branch pipe, which has one branch connected to the cyclone, a second branch connected to a conveying pipe and a third branch which is formed as a blind space.

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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