

Title (en)
A COLLECTOR CHANNEL HAVING A FLOW ADJUSTMENT DEVICE

Title (de)
KOLLEKTORKANAL MIT DURCHFLUSSANPASSUNGSVORRICHTUNG

Title (fr)
CANAL DE COLLECTEUR PRÉSENTANT UN DISPOSITIF DE RÉGLAGE DE DÉBIT

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Application
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Abstract (en)
The invention is directed to a collector channel (1) in an electrostatic precipitator, provided with a device (7, 8) for adjusting the amount and direction of a gas flow (4) entering the channel (1). A single collector channel (1) or each channel in a bundle of collector channels in an electrostatic precipitator is provided with a flow adjustment device (7, 8) at its entry end for adjusting the flow of gas. Preferably, the device (7, 8) for adjusting the gas flow (4) is a body shaped to form a slit (3) for the gas flow (4) at the entry end of the channel (1). The overall width of the slit (3) and the individual width of the slit (3) at various points along its periphery at the channel entry end may be varied. The slit (3) influences both the flow direction and the total volume flow of gas entering the channel (1), the relative location of the slit edges affecting the flow direction and the width of the slit (3) throttling the flow (4). Using three fastening members (9, 10, 11), the angle of the flow adjustment device (7, 8) relative to the cross section of the channel (1) may be controlled.

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Citation (search report)

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