

Title (en)
INSTALLATION FOR TREATING GAS WITH ADSORBENT DISC FILTER

Title (de)
VORRICHTUNG ZUR BEHANDLUNG VON GASEN MITTELS ROTIERENDER ADSORPTIONSFILTER

Title (fr)
INSTALLATION DE TRAITEMENT DE GAZ PAR FILTRE ROTATIF ADSORBANT

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Application
EP 99909063 A 19990322

Priority
• FR 9900660 W 19990322
• FR 9803436 A 19980320

Abstract (en)
[origin: FR2776207A1] The filter element is an active carbon tissue layer (20) forming a cylinder about the filter's axis of rotation. The gas supply opens into a volume on one side of the filter element and the first outlet opens into a volume on the other side. Regeneration is carried out using an electrical supply to the element in the desorption zone to heat this part of the filter by the Joule effect.- DETAILED DESCRIPTION - The filter includes a gas supplier for gas to be treated to one side of the filter element (20), a first outlet (14) to receive the gas which has passed through the filter element in an adsorption zone forming a first part of the rotating trajectory of the filter, a filter element regenerator in a desorption zone at a second part of the rotating trajectory of the filter and a second gas outlet (16) to receive the gas which has passed through the filter in the desorption zone. The surface of the filter element has corrugations. The electrical supply is by brushing contact with feed electrodes. The gas supply to be treated is connected to one side of the element in the desorption zone so the gas received at the second gas outlet comprises a fraction of the gas to be treated enriched by the elements desorbed from the filter element. The apparatus contains several rotating filters mounted in cascade, with the second gas outlet of one being connected to the supplier of the next. Alternatively, the supplier connects to one side of the filter element in the adsorption zone only, and supplementary supplier of a gas flow communicates with one side of the filter element in the desorption zone

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