

Title (en)

SORPTION CONCENTRATOR WITH ELECTRICALLY HEATED DESORPTION REGENERATION

Title (de)

SORPTIONSKONZENTRATOR MIT ELEKTRISCH ERWÄRMTER DESORPTIONSREGENERATION

Title (fr)

CONCENTRATEUR A SORPTION A REGENERATION PAR DESORPTION CHAUFFE ELECTRIQUEMENT

Publication

EP 1539328 A1 20050615 (EN)

Application

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Priority

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- US 39889402 P 20020726

Abstract (en)

[origin: WO2004011126A1] A sorption concentrator for removing contaminants from a gas stream comprising a plurality of sorption units, each having a semi-conductive honeycomb substrate having convoluted surfaces and parallel channels coated with a sorption material, a gas flow system directing gas to be cleaned, through a majority of the sorption units and directing clean gas through the remaining sorption units during a regeneration cycle, and a source of current connected to the semi-conductive foil substrate resistively heating the sorption units during the regeneration cycle. The honeycomb construction is preferably formed of aluminum providing rapid heating and eliminating the requirement for heated desorb gas.

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IPC 8 full level

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