

Title (en)

METHOD AND DEVICE FOR REMOVING ABSORBABLE GASES FROM PRESSURIZED INDUSTRIAL GASES CONTAMINATED WITH ABSORBABLE GASES, WIHOUT SUPPLYING COOLING ENERGY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENTFERNUNG VON ABSORBIERBAREN GASEN AUS UNTER DRUCK BEFINDLICHEN, MIT ABSORBIERBAREN GASEN VERUNREINIGTEN INDUSTRIEGASEN OHNE ZUFÜHRUNG VON KÜHLENERGIE

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT D'ÉLIMINER SANS APPORT D'ÉNERGIE DE REFROIDISSEMENT DES GAZ ABSORBABLES PRÉSENTS DANS DES GAZ INDUSTRIELS SOUS PRESSION CONTAMINÉS PAR DES GAZ ABSORBABLES

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Application

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Abstract (en)

[origin: CA2890037A1] The invention relates to a method for removing absorbable gases from pressurized industrial gases contaminated with absorbable gases, without supplying cooling energy, wherein an industrial gas that is to be purified is purified by an absorbent solvent, the absorbable gases situated therein being removed by the solvent, and the loaded solvent is passed to a stripping stage in which the absorbed gas is desorbed again, and the desorbed gas is compressed, in such a manner that it is heated by the compression, whereupon it is cooled to standard temperature by means of cooling water or cooling air, then expanded, in such a manner that it cools and this cooled desorption gas is again returned to the industrial gas, in such a manner that said industrial gas is also cooled by the admixture and a supply of cooling energy, for example by a refrigeration machine, is no longer necessary, in order to establish the low temperature level necessary for the absorption. The invention also relates to a device with which this method can be carried out.

IPC 8 full level

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