

Title (en)

METHOD FOR TRAPPING CO₂ BY SOLID CRYOCONDENSATION IN A TURBINE

Title (de)

VERFAHREN ZUM EINFANGEN VON CO₂ DURCH FESTSTOFFCRYOKONDENSATION IN EINER TURBINE

Title (fr)

PROCÉDÉ DE CAPTURE DE CO₂ PAR CRYO-CONDENSATION SOLIDE DANS UNE TURBINE

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Application

EP 09803854 A 20091214

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Abstract (en)

[origin: WO2010070226A1] The invention relates to a method for producing at least one gas lean in CO₂ and one or more primary fluids rich in CO₂ from a fluid to be processed that contains CO₂ and at least one compound more volatile than CO₂, implementing: a) a first cooling of the fluid to be processed by heat exchange without state modification; b) a second cooling of a at least a portion of the fluid to be processed cooled during step a) in order to obtain at least one solid mainly containing CO₂ and at least one gas lean in CO₂; and c) a step including the liquefaction and/or sublimation of at least a portion of said solid in order to obtain said one or more CO₂-rich primary fluids; wherein the method is characterised in that step b) is carried out in at least one expansion turbine, the solid being formed inside said turbine.

IPC 8 full level

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