

Title (en)

Method and device for storing fuel gas, in particular natural gas

Title (de)

Verfahren und Vorrichtung zur Speicherung von Brenngas, insbesondere von Erdgas

Title (fr)

Procédé et dispositif destinés à l'enregistrement de gaz combustible, en particulier de gaz naturel

Publication

EP 1892457 B1 20090114 (DE)

Application

EP 07114847 A 20070823

Priority

DE 102006039616 A 20060824

Abstract (en)

[origin: EP1892457A1] The method involves separating compressed fuel gas into partial gas flows (A, B) by a separating device (1). The partial flow (A) is heated by a heat exchanger (5) such that the flow has temperature greater or equal to 8 degree Celsius after expansion of the flow (A) in a work machine (2) e.g. expansion turbine. The flow (B) is compressed by a compressor (3) driven by the machine, and the compressed flow (B) is cooled such that more than 50 percentages of the flow (B) is accumulated in a liquid condition. The liquefied fuel gas (Bf) is stored in a heat insulated reservoir (14). An independent claim is also included for a device for storing fuel gas, comprising a separating device.

IPC 8 full level

F17C 5/02 (2006.01)

CPC (source: EP)

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Cited by

CN103775239A; RU2707349C1; CN113606499A; FR3002311A1; CN105209841A; RU2680285C2; WO2014128408A3; WO2022187781A1

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