

Title (en)

METHOD AND COMPRESSOR MODULE FOR COMPRESSING A GAS STREAM

Title (de)

VERFAHREN UND KOMPRESSORMODUL ZUM VERDICHTEN EINES GASSTROMES

Title (fr)

PROCEDE ET MODULE COMPRESSEUR POUR COMPRIMER UN FLUX GAZEUX

Publication

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Application

**EP 00944043 A 20000719**

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Abstract (en)

[origin: US6652241B1] The invention relates to a method and compressor module for compressing a gas stream of entry temperature  $t_1$  with the aid of hydraulically driven piston compressors in two compression stages of an entry pressure  $p_1$  from an intermediate pressure  $p_2$  after the first compression stage and from intermediate pressure  $p_2$  to an exit pressure  $p_3$  after the second compression stage, whereby the gas stream compressed to the intermediate pressure  $p_2$  is cooled back down to the entry temperature  $t_1$  before entering the second compression stage, and identical pressure ratios  $p_3/p_2 = p_2/p_1$  are used in the compression stage. According to the invention, the pressure ratios are adjusted by correspondingly adapting a hydraulic fluid stream for driving the first compression stage and a hydraulic fluid stream for driving the second compression stage with regard to the flow rate thereof with the aid of two adjustable hydraulic fluid pumps.

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