

Title (en)

SYSTEM AND METHOD FOR COMPRESSING CARBON DIOXIDE

Title (de)

SYSTEM UND VERFAHREN ZUM KOMPRIMIEREN VON KOHLENDIOXID

Title (fr)

SYSTÈME ET PROCÉDÉ POUR COMPRIMER DU DIOXYDE DE CARBONE

Publication

EP 2984344 B1 20200325 (EN)

Application

EP 14782970 A 20140407

Priority

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- US 2014033130 W 20140407

Abstract (en)

[origin: WO2014168855A1] A system and method are provided for a compression system. The system and method may include a driver having a drive shaft extending therethrough. The driver may be configured to provide the drive shaft with rotational energy. The system and method may also include a first single-stage compressor and a second single-stage compressor, each having a rotary shaft coupled with or integral with the drive shaft. The first and second single-stage compressors may be configured to compress a high molecular weight process fluid to provide a compressed process fluid having a pressure ratio of about 10:1 or greater. The compressed process fluid may contain heat from the compression thereof. A heat recovery system may be fluidly coupled with the first and second single-stage compressors and may be configured to receive the compressed process fluid and absorb at least a portion of the heat contained in the compressed process fluid.

IPC 8 full level

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