

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 A4 20170111 (EN)**

Application

**EP 14782970 A 20140407**

Priority

- US 201361809503 P 20130408
- 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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CPC (source: EP)

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Citation (search report)

- [IA] JP 2012251529 A 20121220 - DAIKIN IND LTD
- [IA] US 5857348 A 19990112 - CONRY RONALD DAVID [AU]
- [IA] US 2002037215 A1 20020328 - CHOI MOON-CHANG [KR], et al
- [I] US 4747749 A 19880531 - SAGNES PIERRE F J [FR]
- [A] WO 2011113098 A1 20110922 - INNOVATIVE DESIGN TECHNOLOGY PTY LTD [AU], et al
- See references of WO 2014168855A1

Designated contracting state (EPC)

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