

Title (en)

A gas compression system and a method for controlling a gas compression system.

Title (de)

Gaskompressionssystem und Verfahren zur Steuerung eines Gaskompressionssystems.

Title (fr)

Système de compression de gaz et procédé pour le contrôle d'un système de compression de gaz.

Publication

EP 2042743 B1 20141105 (EN)

Application

EP 07117327 A 20070927

Priority

EP 07117327 A 20070927

Abstract (en)

[origin: EP2042743A1] A gas compression system comprising a compressor (1) for compressing a gas fed to the compressor, an electric motor (4) driving the compressor, a compressor motor drive unit (5) producing current to said motor, a pipe (20) for feeding back gas from the outlet of the compressor to the inlet of the compressor, a recycle valve (22) controlling the gas flow in the pipe, an actuator (25) for actuating the recycle valve, and a control unit (24) generating a control signal to said actuator for controlling the opening and closing of the recycle valve. The actuator comprises an electric motor (26) controlling the opening and closing of the recycle valve. The gas compression system further comprises measuring equipment (32) for measuring the input voltage to the compressor motor drive unit, and the control unit is adapted to determine whether there is a risk of surge of the compressor based on the measured input voltage to the compressor motor drive unit, and to generate a control signal for opening the recycle valve if it is determined that there is a risk of surge of the compressor.

IPC 8 full level

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CPC (source: EP)

F04D 25/06 (2013.01); **F04D 27/001** (2013.01); **F04D 27/0215** (2013.01)

Cited by

WO2016207165A1; CN114857071A; CN102155382A; CN104373202A; CN103953560A; CN107228088A; GB2581467A; CN102498358A; AT517649A1; CN108035905A; US2020182242A1; US11624456B2; CN107246401A; EP2476910A3; US2022065175A1; CN114109595A; US10859087B2; WO2016180763A1; WO2024149659A1; WO2011032958A1

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