

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 A1 20090401 (EN)

Application

EP 07117327 A 20070927

Priority

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Abstract (en)

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)

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Citation (applicant)

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- EP 0368855 A1 19900523 - HWP GROUP INC [US]
- WO 9738270 A1 19971016 - YORK INT CORP [US]
- US 5971712 A 19991026 - KANN MENG JENG [US]

Citation (search report)

- [X] EP 0368557 A2 19900516 - WESTINGHOUSE ELECTRIC CORP [US]
- [X] WO 9738270 A1 19971016 - YORK INT CORP [US]
- [X] US 5971712 A 19991026 - KANN MENG JENG [US]
- [A] US 4546618 A 19851015 - KOUNTZ KENNETH J [US], et al
- [A] EP 1662147 A1 20060531 - MITSUBISHI HEAVY IND LTD [JP]
- [A] EP 0676545 A2 19951011 - COMPRESSOR CONTROLS CORP [US]

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