

Title (en)

A SYSTEM AND A METHOD FOR CAPACITY CONTROL IN A SCREW COMPRESSOR

Title (de)

SYSTEM UND VERFAHREN ZUR STEUERUNG DER LEISTUNG EINES SCHRAUBENVERDICHTERS

Title (fr)

SYSTEME ET PROCEDE POUR LE CONTROLE DE LA CAPACITE DANS UN COMRESSEUR A VIS

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006095364A1] A system and amethod for implementing capacity control in a screw compressor (R), said system comprising; a screw compressor (1), said compressor driven by a multi-speed motor (2) to compress air or gas medium, a bypass inlet member with a bypass valve (10), extending form the high pressure zone to the low pressure zone of the screw compressor (1) to recirculate the gaseous medium, a bypass valve controller (7) functionally connected to said bypass valve (10), a motor controller (9) functionally connected to the motor (2) to effect multi-speed operations, a main processing control unit (8) disposed to control the bypass valve (10) and multi-speed operations; measuring means disposed on the compressed medium passage for measuring the changes in the pressure and/or temperatur changes in the form of signals, a signal converter (20) functionally connected to the main processing unit (8) and the measuring means to receive the signals, and said motor controller (9) and bypass valve controller (7) are functionally connected to the main processing unit (8) to perform the capacity control of the screw compressor (1).

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