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(54) Title: CONTROLLER UNIT FOR CONTROLLING THE SPEED OF A MOTOR DRIVING AN OIL INJECTED COM-
PRESSOR AND METHOD OF CONTROLLING SAID SPEED

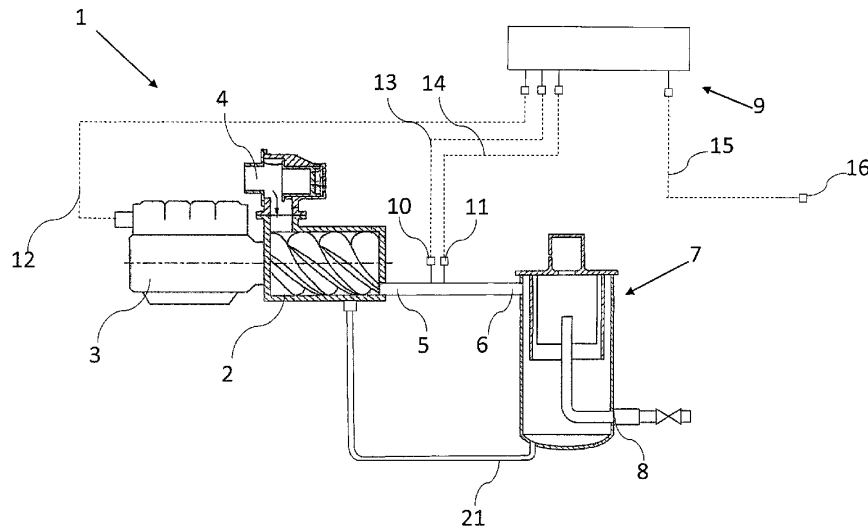


Figure 1

(57) Abstract: The present invention is directed to a controller unit for controlling the speed of a motor (3) for driving an oil injected compressor (1), said controller unit (9) comprising: a data connection (12, 13, 14); a first module (17) configured to receive data through said data connection (12, 13, 14); whereby the controller unit (9) further comprises -a processing unit (18a) determining a minimum working speed (rpm_{min}) of the motor (3) on the basis of the measured working pressure (p_w), the ambient temperature ($T_{ambient}$) and a dew point temperature ($T_{dew\ point}$); and a comparator unit (19a) configured to compare the determined minimum working speed (rpm_{min}) with the retrieved working speed (rpm) of the motor (3) and, said processing unit (18a) further comprising a

[Continued on next page]

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signal generating unit (20a) configured to send a signal to said motor for increasing the working speed (rpm) of the motor (3) to at least the determined minimum working speed ($\text{rpm}_{\min}$), if said retrieved working speed (rpm) is lower than the determined minimum working speed ($\text{rpm}_{\min}$).