

Title (en)
METHOD AND CONTROL DEVICE FOR THE ROTATIONAL-SPEED-VARIABLE CONTROL OF AN EXPELLER PUMP UNIT AND EXPELLER PUMP ARRANGEMENT

Title (de)
VERFAHREN UND REGELVORRICHTUNG ZUR DREHZAHLVARIABLEN REGELUNG EINES VERDRÄNGERPUMPENAGGREGATES SOWIE VERDRÄNGERPUMPENANORDNUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE RÉGLAGE POUR LA RÉGULATION À VITESSE VARIABLE D'UN GROUPE POMPE VOLUMÉTRIQUE ET ENSEMBLE DE POMPE VOLUMÉTRIQUE

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Abstract (en)
[origin: WO2012066090A1] The invention relates to a method for the rotational-speed-variable control of an expeller pump unit for feeding a fluid, composed of an expeller pump and a drive, wherein the drive is composed of an electric drive motor and a frequency converter, by means of a control device, wherein a final pressure of the expeller pump is adjusted to a final pressure setpoint value by the control device, as well as a suitable control device for carrying out the method and a corresponding expeller pump arrangement. The control device (11) according to the invention detects state values which are supplied by the drive, in particular relating to the position, rotational speed and torque of the drive motor (6). The control device (11) determines therefrom the control variable, in particular the final pressure of the expeller pump (2). The expeller pump unit is adjusted to the setpoint value without using sensors.

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Citation (examination)
• WO 03031918 A1 20030417 - ABB AB [SE], et al
• EP 2196678 A1 20100616 - ABB OY [FI]
• GB 2352533 A 20010131 - DANFOSS AS [DK]
• US 2003127289 A1 20030710 - ELGAS BERND PETER [DE], et al

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