

Title (en)

REGULATION OF THE STROKE FREQUENCY OF A DOSING PUMP

Title (de)

REGELUNG DER HUBFREQUENZ EINER DOSIERPUMPE

Title (fr)

REGULATION DE LA FREQUENCE DES COURSES DU PISTON D'UNE POMPE DE DOSAGE

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Abstract (en)

[origin: US6457944B1] The invention relates to a method for operating a dosing pump, the pump being driven by an asynchronous motor, comprising a drive which converts the motor revolutions into pump strokes of a defined stroke frequency. The pump strokes are comprised of a pump suction stroke and of a pump delivery stroke. Pump strokes are continuously carried out during a dosing phase. The aim of the invention is to provide a solution concerning a dosing pump having an asynchronous motor drive, a frequency converter thereto, and a control unit which interacts therewith in which the dosing behavior is improved during the operation of dosing pumps having an asynchronous motor drive. The invention provides that, with each pump stroke, an electric alternating voltage having a first frequency is applied to the asynchronous motor during the pump suction stroke, and that the same electric alternating voltage having a second frequency which is lower than that during the pump suction stroke is applied to said motor during the pump delivery stroke.

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