

Title (en)
PROCESS FOR MEASURING THE FLOW RATE OF THICK MATTER PUMPS.

Title (de)
DICKSTOFFPUMPEN-DURCHFLUSSMESSVERFAHREN.

Title (fr)
METHODE DE MESURE DU DEBIT DE POMPES A LIQUIDES EPAIS.

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Application
EP 93918759 A 19930204

Priority
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• EP 9300252 W 19930204

Abstract (en)
[origin: WO9318301A1] A process and device are disclosed for determining by a measurement technique the flow rate of a substance conveyed by means of a thick matter piston pump (1) through a delivery pipe (22). The thought at the basis of the invention is that the filling level of the delivery cylinder, which is required for accurately determining volumetric flow, may be inferred from the variations of the pressure in the delivery pipe. Feeding pressure in the delivery pipe (22) is thus continuously or periodically measured at predetermined time intervals by means of a pressure sensor (54). The interval between successive pressure strokes, used to determine the number or frequency of strokes, as well as the filling level of the delivery cylinder, used to determine the actual delivery volume per pressure stroke, are both derived from the time-dependent amplitude characteristic of the measured delivery pressure.

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