

Title (en)  
PROCEDURE AND INSTRUMENT FOR MEASUREMENT OF THE CHARACTERISTICS OF FLUIDS

Title (de)  
VERFAHREN UND INSTRUMENT ZUM MESSEN VON FLÜSSIGKEITSWERTEN

Title (fr)  
PROCEDE ET INSTRUMENT DE MESURE DES CARACTERISTIQUES DE LIQUIDES

Publication  
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Application  
**EP 03750389 A 20031007**

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Abstract (en)  
[origin: WO2004034035A1] The invention is based on a method of taking liquid samples and determining the characteristics of such samples, drawing the samples into a by-pass system, and consisting of the following steps: - a liquid sample from a pipe section of a processing plant is drawn into a mainly vertical pipe section of the by-pass system by a pump, - a first test valve is shut off, and the pump will create a vacuum in the liquid sample, - a second test valve is shut off, and a piston will compress the liquid sample in the pipe section - a measuring device is used for determining the characteristics of the liquid sample, - the liquid sample may be returned to the pipe section of the processing plant The invention, is furthermore, a device for taking liquid samples and determining the characteristics of such samples. The device is a by-pass system consisting of a mainly vertical pipe section, at least two shut-off valves, a first and a second test valve, at least one outlet for at least one measuring device, at least one piston, and at least one pump, in which the shutoff valves are placed adjacent to a pipe section of a processing plant. The outlets for the measuring device and the piston are placed in the by-pass system on the vertical pipe section between the test valves, and the pump is placed in the by-pass system after the second test valve and before one of the shutoff valves.

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See references of WO 2004034035A1

Citation (examination)  
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