

Title (en)  
IMPEDANCE MEASUREMENT IN A FLUIDIC MICROSYSTEM

Title (de)  
IMPEDANZMESSUNG IN EINEM FLUIDISCHEN MIKROSYSTEM

Title (fr)  
MESURE D'IMPEDANCE DANS UN MICROSYSTEME FLUIDIQUE

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Application  
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Abstract (en)  
[origin: WO2004013614A1] The invention relates to a method and to a measuring device used for impedance measurement in a fluidic microsystem, comprising a compartment (10) through which a fluid consisting of at least one suspended particle (16) flows and wherein at least one impedance detector (40) is arranged, enabling at least one impedance value to be detected in order to detect the at least one particle, said impedance value being characteristic of the impedance of the compartment and being modified by the presence of the at least one particle in a predetermined manner. The at least one particle is focussed at a predetermined distance in relation to the impedance detector. Said focussing includes movement of the at least one particle in relation to the fluid flowing in the compartment by dielectrophoretic forces which are exerted by means of at least two focussing electrodes (30).

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