

Title (en)  
VOLUME CHARGE DENSITY MEASURING SYSTEM

Title (de)  
MESSSYSTEM FÜR VOLUMENLADUNGSDICHTE

Title (fr)  
SYSTEME DE MESURE DE DENSITE DE CHARGE VOLUMIQUE

Publication  
**EP 1137931 A1 20011004 (EN)**

Application  
**EP 99965113 A 19991203**

Priority  
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• US 9825792 W 19981204

Abstract (en)  
[origin: WO0034767A1] A capacitive sensor includes one or more chambers through which a material can flow. Two conductors are located to partially surround the flow chamber so that the material flows between the conductors. Where more than one chamber is used, additional conductors are provided. A measurement circuit connected to the conductors provides an output corresponding to a difference between test and reference frequencies. A display indicates the measured capacitance as a continuous-scale, proportional representation or a binary representation. The sensor system can measure volume charge density of a fluid or parameters responsive to changes in volume charge density, such as flow velocity.

IPC 1-7  
**G01N 27/22**

IPC 8 full level  
**G01F 1/64** (2006.01); **G01N 27/22** (2006.01)

CPC (source: EP)  
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Citation (search report)  
See references of WO 0034767A1

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