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**Chaum et al.**

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(54) **METHOD AND DEVICE FOR DETECTION OF BIOAVAILABLE DRUG CONCENTRATION IN A FLUID SAMPLE**

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CPC ..... **A61B 5/1468** (2013.01); **A61B 5/053** (2013.01); **A61B 5/1459** (2013.01);  
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(58) **Field of Classification Search**  
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(57) **ABSTRACT**  
The invention relates to a method for the controlled delivery of a drug as a function of bioavailable drug concentration, a sensor device for detecting bioavailable drug concentration, and a delivery device that controls delivery of the drug based on the real-time detection of bioavailable drug concentration.

**20 Claims, 56 Drawing Sheets**

