

Title (en)

DEVICE AND METHOD FOR DETERMINING CHARACTERISTICS OF A BIOMASS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BESTIMMUNG VON EIGENSCHAFTEN EINER BIOMASSE

Title (fr)

DISPOSITIF ET PROCEDE DE DETERMINATION DE CARACTERISTIQUES D'UNE BIOMASSE

Publication

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Application

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Abstract (en)

[origin: WO0179828A1] The invention concerns a device for determining the characteristics of a biomass, comprising: a probe (S, S') including electrodes, two or four in number, for injecting a current into a medium containing biological cells and for reading the voltage applied to said medium, and a resistance for measuring the injected current; a conditioning unit (10) comprising an alternating voltage generator (112) and a circuit (200) processing current and voltage measuring signals, so as to deliver signals (C, G) respectively of measurement of the capacity and conductance of the medium. The conditioning unit (10) comprises a zero method measuring bridge (150) automatically controlled to deliver the signals (C, G) of measurement of the medium capacity and conductance. The invention is useful in particular for characterising media containing biological cells, in particular for controlling biological fermentation process.

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