

Title (en)
BIOREACTOR CONTROL

Title (de)
STEUERUNG EINES BIOREAKTORS

Title (fr)
COMMANDE DE BIOREACTEUR

Publication
EP 1015390 A1 20000705 (EN)

Application
EP 98903300 A 19980206

Priority
• NO 9800043 W 19980206
• NO 970550 A 19970206

Abstract (en)
[origin: WO9834878A1] A method for biological conversion of waste in bioreactors, which require more than one conversion step to produce desired end products, where the concentrations of relevant parameters in the reactor are caused to fluctuate with time through systematic changes in physical or chemical input, is described. The method can be used for biological nitrogen removal from wastewater in a one compartment continuous flow bioreactor, wherein the oxygen concentration in the reactor is caused to fluctuate with time. The method can be used in a bioreactor for nutrient removal from wastewater in a one compartment continuous flow manner, wherein the reactor is provided with aeration means, means for measuring the oxygen concentration in the reactor and means to regulate the aeration as a response to the measurements of oxygen concentration. Oscillations of relevant parameters can be advantage in a variety of bioreactors to cause intermittent favourable conditions for the various process steps required and to obtain enhanced signals from the process through the monitored parameters.

IPC 1-7
C02F 3/00; C02F 3/02

IPC 8 full level
C02F 3/00 (2006.01)

CPC (source: EP)
C02F 3/006 (2013.01); **C02F 2209/02** (2013.01); **C02F 2209/04** (2013.01); **C02F 2209/05** (2013.01); **C02F 2209/06** (2013.01); **C02F 2209/14** (2013.01); **C02F 2209/15** (2013.01); **C02F 2209/22** (2013.01); **C02F 2209/40** (2013.01); **C02F 2209/44** (2013.01); **Y02W 10/10** (2015.05)

Citation (search report)
See references of WO 9834878A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)
WO 9834878 A1 19980813; AU 6007098 A 19980826; EP 1015390 A1 20000705; NO 970550 D0 19970206

DOCDB simple family (application)
NO 9800043 W 19980206; AU 6007098 A 19980206; EP 98903300 A 19980206; NO 970550 A 19970206