

Title (en)
A PROCESS AND APPARATUS FOR TREATING WASTE WATER

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ABWASSERBEHANDLUNG

Title (fr)
PROCEDE DE TRAITEMENT ET APPAREIL CORRESPONDANT

Publication
EP 0958249 A4 20000531 (EN)

Application
EP 97937358 A 19970908

Priority
• AU 9700577 W 19970908
• AU PO218296 A 19960906

Abstract (en)
[origin: WO9809918A1] This invention concerns a process for treating waste water, and other liquids, and in further aspect concerns an apparatus for the treatment of waste water. The invention may find application in a range of waste water plants ranging from the domestic to the largest municipal plants, and for the treatment of even the most polluted waste water. The invention also may find application in biotechnological processes. The apparatus comprises two or more aerator/filter elements (1, 2) and/or (19, 20) each of which has an associated pressurized gas supply (3, 4, 5, 6) and/or (37, 38, 46, 47) and an associated effluent drain (7, 8, 9, 10) and/or (35, 36, 44, 45). The supplies and drains are valved and controlled such that, in use, each element is alternately supplied with pressurized gas or drained. The invention also concerns a treatment plant comprising the treatment apparatus arranged in an array.

IPC 1-7
C02F 1/72; **C02F 1/74**; **C02F 1/78**; **C02F 3/00**; **C02F 9/00**; **C02F 3/20**; **C02F 3/06**; **C02F 3/10**; **C02F 3/12**

IPC 8 full level
B01D 69/10 (2006.01); **B01D 71/02** (2006.01); **C02F 1/44** (2006.01); **C02F 1/74** (2006.01); **C02F 1/78** (2006.01); **C02F 3/12** (2006.01); **C02F 3/20** (2006.01); **C02F 3/26** (2006.01); **C02F 3/30** (2006.01)

CPC (source: EP)
C02F 3/20 (2013.01); **C02F 3/26** (2013.01); **C02F 3/302** (2013.01); **Y02W 10/10** (2015.05)

Citation (search report)
• [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 017 (C - 1016) 13 January 1993 (1993-01-13)
• [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 211 (C - 1052) 26 April 1993 (1993-04-26)
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 572 (C - 1010) 11 December 1992 (1992-12-11)
• [A] DATABASE WPI Section Ch Week 198401, Derwent World Patents Index; Class D15, AN 1984-004664, XP002134733
• See references of WO 9809918A1

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

DOCDB simple family (publication)
WO 9809918 A1 19980312; AU PO218296 A0 19961003; CA 2264915 A1 19980312; EP 0958249 A1 19991124; EP 0958249 A4 20000531; JP 2001505480 A 20010424

DOCDB simple family (application)
AU 9700577 W 19970908; AU PO218296 A 19960906; CA 2264915 A 19970908; EP 97937358 A 19970908; JP 51205598 A 19970908