

Title (en)
BIOFILM AVOIDANCE AND REMOVAL PROCESS AND COMPOSITION

Title (de)
VERMEIDUNG VON BIOLOGISCHEN FILMEN, VERFAHREN ZU IHRER BESEITIGUNG UND ENTSPRECHENDE ZUSAMMENSETZUNG

Title (fr)
PROCEDE PERMETTANT D'EVITER LA FORMATION D'UN FILM BIOLOGIQUE, DE L'OTER ET COMPOSITION CORRESPONDANTE

Publication
EP 0796114 A4 20000614 (EN)

Application
EP 95940866 A 19951121

Priority
• DE 4445070 A 19941206
• US 9515500 W 19951121
• US 46521495 A 19950605

Abstract (en)
[origin: WO9617632A1] The present invention relates to the use of at least one enzyme component from the group consisting of carbohydrases, proteases, lipases and glycol proteases and a short-chained glycol component for the avoidance of slime formation and/or for the removal of biofilm on surfaces of water-bearing systems, in particular of industrial process-water systems. The enzyme component(s) and the glycol component can be added to the water-bearing system either separately, i.e., at different points, or in the form of an enzymatic composition containing the enzyme component(s) and the glycol component.

IPC 1-7
A61L 2/18; B08B 17/00; C02F 3/00; C11D 1/68; C11D 7/42; D21H 21/04

IPC 8 full level
B08B 17/00 (2006.01); **A01N 63/00** (2006.01); **A61L 2/18** (2006.01); **C02F 1/00** (2006.01); **C02F 1/50** (2006.01); **C02F 3/34** (2006.01); **C11D 7/26** (2006.01); **D21H 21/04** (2006.01)

CPC (source: EP)
C02F 1/50 (2013.01); **C02F 3/342** (2013.01); **C02F 2103/023** (2013.01)

Citation (search report)
• [XD] EP 0590746 A1 19940406 - GRACE W R & CO [US]
• [Y] US 3717550 A 19730220 - ZIFFER J
• [YD] WO 9213807 A1 19920820 - BUCKMAN LABOR INC [US]
• [A] DE 3741583 A1 19880623 - KEMIRA OY [FI]
• [AD] US 5324432 A 19940628 - ROBERTSON LINDA R [US], et al
• See references of WO 9617632A1

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

DOCDB simple family (publication)
WO 9617632 A1 19960613; AU 4247496 A 19960626; AU 695600 B2 19980820; BR 9509974 A 19980609; CA 2203436 A1 19960613; CN 1168637 A 19971224; CZ 173897 A3 19981014; EP 0796114 A1 19970924; EP 0796114 A4 20000614; FI 972388 A0 19970605; FI 972388 A 19970605; JP H10509642 A 19980922; MX 9704090 A 19970930; NO 972499 D0 19970602; NO 972499 L 19970606; NZ 297334 A 19980826

DOCDB simple family (application)
US 9515500 W 19951121; AU 4247496 A 19951121; BR 9509974 A 19951121; CA 2203436 A 19951121; CN 95196641 A 19951121; CZ 173897 A 19951121; EP 95940866 A 19951121; FI 972388 A 19970605; JP 51764596 A 19951121; MX 9704090 A 19951121; NO 972499 A 19970602; NZ 29733495 A 19951121