

Title (en)

Process and active packing material for the biological denitrification of waste water.

Title (de)

Verfahren und aktives Füllkörpermateriel zur biologischen Denitrifizierung von Abwasser.

Title (fr)

Procédé de dénitrification biologique d'effluents et support actif utilisé dans ce procédé.

Publication

EP 0000461 A1 19790124 (FR)

Application

EP 78400049 A 19780703

Priority

FR 7721119 A 19770708

Abstract (en)

[origin: US4209390A] The present invention is directed to a process for biological denitrification of effluents, containing up to 10 g/l of nitric nitrogen, which comprises using an active denitrification support made of selected high performance denitrifying bacteria fixed on a neutral support.

Abstract (fr)

Procédé de dénitrification biologique d'effluents pouvant contenir jusqu'à 10 g/l d'azote nitrique, consistant à utiliser un support actif de dénitrification constitué par la fixation sur un support neutre de bactéries dénitrifiantes sélectionnées à hautes performances.

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IPC 8 full level

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Citation (search report)

- US 3829377 A 19740813 - HASHIMOTO S
- FR 2147522 A5 19730309 - CHELLE RENE, et al
- [A] US 3709364 A 19730109 - SAVAGE E

Cited by

EP0445043A1; FR2659076A1; WO9101278A1; WO9113035A1

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EP 0000461 A1 19790124; **EP 0000461 B1 19820505**; AU 3780878 A 19800110; AU 520638 B2 19820218; BR 7804409 A 19790228; CA 1118377 A 19820216; DE 2861782 D1 19820624; DK 306278 A 19790109; FR 2396726 A1 19790202; FR 2396726 B1 19820226; IE 47023 B1 19831130; IE 781365 L 19790108; IT 1111478 B 19860113; IT 7868429 A0 19780619; NO 151700 B 19850211; NO 151700 C 19850522; NO 782380 L 19790109; SE 436349 B 19841203; SE 7807648 L 19790109; US 4209390 A 19800624; US 4318988 A 19820309; ZA 783913 B 19790725

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