

Title (en)

APPARATUS AND PROCESS FOR TREATING WASTE EFFLUENT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BEHANDLUNG VON ABWASSER

Title (fr)

DISPOSITIF ET PROCEDE DE TRAITEMENT D'EAUX RESIDUAIRES

Publication

**EP 0699173 A1 19960306 (EN)**

Application

**EP 95911425 A 19950317**

Priority

- GB 9500593 W 19950317
- GB 9405572 A 19940319

Abstract (en)

[origin: WO9525696A1] A high rate multi-stages serial biological fluidised bed waste effluent treatment apparatus and process are provided. The apparatus comprises a series of chambers, interconnected, closed to the atmosphere and containing suspended biomass growth which treats waste effluent as it passes upwardly through each chamber. Successive chambers have increasing cross-sectional areas in order to reduce the upward flow velocity of the flow and so retain the growing particles within each stage for a sufficient period to effect purification of the pollutants. The respiring biomass requires a large supply of oxidant, e.g. oxygen, therefore the reactor, which is enclosed, will be kept under pressure, e.g. (3) to (5) bar, which will allow comparatively high concentration of oxygen to be dissolved without a problem due to effervescence. The apparatus can be adapted to treat any type of biodegradable waste effluent including industrial effluents.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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See references of WO 9525696A1

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