

Title (en)

METHOD AND DEVICE FOR TREATING A HEAVILY LOADED LIQUID EFFLUENT IN PARTICULAR WITH NITROGEN AND WITH PHOSPHORUS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEHANDLUNG VON U.A. DURCH STICKSTOFF UND PHOSPHOR SCHWER BELASTETEN ABWASSER

Title (fr)

PROCEDE ET DISPOSITIF POUR TRAITER UN EFFLUENT LIQUIDE FORTEMENT CHARGE NOTAMMENT EN AZOTE ET EN PHOSPHORE

Publication

EP 1019326 A1 20000719 (FR)

Application

EP 98942812 A 19980903

Priority

- FR 9801881 W 19980903
- FR 9711478 A 19970916

Abstract (en)

[origin: FR2768429A1] Removing ammonia, nitrogen and phosphate by spraying alkaline effluent through an air stream by mixing with quick lime to bring pH between 8.5 - 13. Ammonia is completely stripped from the liquid into the gas phase by recirculating through a series of cyclone sprays.- DETAILED DESCRIPTION - Effluent for treatment is first mixed with up to 1000 g/l quick lime (Ca(OH)₂), either as a powder, paste or liquid, to bring its pH up to between 8.5 and 13. Alkaline effluent is then recirculated between 1 and 50 times through a series of cyclone sprays (4, 6) in an air stream, which strips out ammonia from the liquid into the gas phase. Entrained liquid is removed from the air stream before discharge and possibly further treatment in a droplet remover (9)

IPC 1-7

C02F 1/66; **C02F 1/20**

IPC 8 full level

C02F 1/20 (2006.01); **C02F 1/58** (2006.01); **C02F 1/66** (2006.01)

CPC (source: EP US)

C02F 1/20 (2013.01 - EP US); **C02F 1/586** (2013.01 - EP US); **C02F 1/66** (2013.01 - EP US); **C02F 2101/16** (2013.01 - EP US); **Y10S 210/903** (2013.01 - EP US)

Citation (search report)

See references of WO 9914162A1

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