

Title (en)  
IMPROVEMENTS IN FLOTATION/FRACTIONATION SYSTEMS FOR TREATING LIQUIDS AND IN SEPARATION OF LIQUIDS TO BE TREATED THEREBY

Title (de)  
VERBESSERUNGEN IN FLOTATIONS-/FRAKTIONIERUNGSSYSTEMEN ZUR FLÜSSIGKEITSBEHANDLUNG UND BEI DER TRENNUNG VON HIERBEI BEHANDELTEN FLÜSSIGKEITEN

Title (fr)  
AMELIORATION DE SYSTEMES DE FLOTTAISON/FRACTIONNEMENT POUR LE TRAITEMENT DE LIQUIDE ET AMELIORATION DE LA SEPARATION DE LIQUIDE TRAITE PAR CE SYSTEME

Publication  
**EP 1409412 A1 20040421 (EN)**

Application  
**EP 00972461 A 20001030**

Priority  
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Abstract (en)  
[origin: WO0132562A1] An improvement in a fractionation/flotation system for separating liquid containing particles of varying mass or specific gravity. A reactor vessel comprises a fractionation column and a foam aggregation chamber surmounting the column. Liquid containing the waste is pumped into the fractionation column via a first inlet and a second inlet at intermediate locations where the first inlet entry is higher than the second inlet. A waste reducing gas is injected into the second inlet immediately prior to the liquid entering the fractionation column. The separating apparatus comprises an elongated passageway, a primary lip for liquid containing particles to flow over, a secondary lip lower than the primary lip for liquid to flow over. Flow is diverted within the passageway by a suction pipe. Liquid in the pipe contains particles of relatively lower mass or specific gravity. Liquid containing particles of higher mass or specific gravity flows out over the secondary lip.

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**C02F 1/24**; **B01D 21/02**; **B03B 5/28**

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CPC (source: EP US)  
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