

Title (en)
APPARATUS AND METHOD FOR PRECIPITATION OF PHOSPHORUS FROM WASTE WATER

Title (de)
VORRICHTUNG UND VERFAHREN ZUR AUSFÄLLUNG VON PHOSPHOR AUS ABWASSER

Title (fr)
APPAREIL ET PROCÉDÉ POUR PRÉCIPITATION DE PHOSPHORE À PARTIR D'EAU USÉE

Publication
EP 2164809 A4 20130102 (EN)

Application
EP 08775534 A 20080703

Priority
• FI 2008050409 W 20080703
• FI 20075515 A 20070705

Abstract (en)
[origin: WO2009004123A1] This invention relates to an apparatus attachable to a small-scale purification unit for precipitating phosphorus from waste water, said apparatus comprising a pumping vessel (1), a discharge pump (2) for unloading the pumping vessel, a chemical tank (6), a chemical metering pump (5) for dispensing a chemical from the chemical tank (6) into waste water to be discharged from the pumping vessel (1), whereby a separation of the resulting chemical precipitate from water draining out of the purification unit is arranged to be accomplished in a settling tank (12) of the small-scale purification unit. In this invention, the metering pump (5) is arranged to supply a chemical coagulant into an effluent flow discharged by the discharge pump (2) over an entire or almost entire operating cycle of the discharge pump (2).

IPC 8 full level
C02F 1/52 (2006.01); **C02F 1/58** (2006.01)

CPC (source: EP FI)
C02F 1/5209 (2013.01 - FI); **C02F 1/5245** (2013.01 - EP); **C02F 1/58** (2013.01 - FI); **C02F 1/5236** (2013.01 - EP); **C02F 3/12** (2013.01 - EP); **C02F 9/00** (2013.01 - EP); **C02F 11/04** (2013.01 - EP); **C02F 2101/105** (2013.01 - EP); **Y02W 10/10** (2015.05 - EP)

Citation (search report)
• [I] FI 7006 U1 20060320 - RAITA ENVIRONMENT LTD OY [FI]
• See references of WO 2009004123A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2009004123 A1 20090108; CN 101730664 A 20100609; CN 101730664 B 20121017; EP 2164809 A1 20100324; EP 2164809 A4 20130102; FI 119148 B 20080815; FI 20075515 A0 20070705; RU 2010103367 A 20110810; RU 2480422 C2 20130427

DOCDB simple family (application)
FI 2008050409 W 20080703; CN 200880023361 A 20080703; EP 08775534 A 20080703; FI 20075515 A 20070705; RU 2010103367 A 20080703