

Title (en)

METHOD FOR TREATMENT OF SLUDGE FROM WATER AND WASTEWATER TREATMENT PLANTS WITH CHEMICAL TREATMENT

Title (de)

VERFAHREN ZUR BEHANDLUNG VON SCHLAMM AUS WASSER- UND ABWASSERBEHANDLUNGSANLAGEN MIT CHEMISCHER BEHANDLUNG

Title (fr)

PROCÉDÉ DE TRAITEMENT DE BOUES PROVENANT D'INSTALLATIONS DE TRAITEMENT DE L'EAU ET DES EAUX USÉES UTILISANT UN TRAITEMENT CHIMIQUE

Publication

**EP 2701827 A1 20140305 (EN)**

Application

**EP 11802892 A 20111214**

Priority

- SE 1150380 A 20110429
- EP 2011072738 W 20111214

Abstract (en)

[origin: WO2012146324A1] Method and construction for treatment of sludge from (A) in waterworks and wastewater treatment plants, resulting in sludge (C1) and pure water (E). The method comprises adding an acid (F) to sludge (C1) in such way that a first sludge mixture (G), with low pH, is received. The first sludge mixture (G), which includes said inorganic chemical coagulants in solution and organic substances, is fed to at least one membrane filtration process (F1), in which a concentrate (I, J) and a permeate (Pe1, Pe2) are obtained. Temperature of said sludge (C1), said first sludge mixture (G), said concentrate (I, J) and said permeate (Pe1, Pe2) is below the boiling point of water at atmospheric pressure. If the used coagulant in the treatment process contains Fe, the method also comprises adding oxidizing agent (H) to the flocculation process..

IPC 8 full level

**B01D 61/16** (2006.01); **C02F 1/52** (2006.01); **C02F 9/00** (2006.01); **C02F 11/00** (2006.01); **C02F 11/12** (2019.01)

CPC (source: EP US)

**B01D 61/145** (2013.01 - EP); **B01D 61/147** (2013.01 - EP); **B01D 61/16** (2013.01 - EP); **B01D 61/22** (2013.01 - EP); **C02F 9/00** (2013.01 - EP US); **B01D 2311/04** (2013.01 - EP); **B01D 2311/10** (2013.01 - EP); **B01D 2311/18** (2013.01 - EP); **B01D 2311/2634** (2013.01 - EP); **B01D 2311/2642** (2013.01 - EP); **B01D 2317/025** (2013.01 - EP); **C02F 1/444** (2013.01 - EP); **C02F 1/5245** (2013.01 - EP); **C02F 1/66** (2013.01 - EP); **C02F 1/722** (2013.01 - EP); **C02F 11/004** (2013.01 - EP); **C02F 11/10** (2013.01 - EP); **C02F 11/12** (2013.01 - EP US); **C02F 11/18** (2013.01 - EP US); **C02F 2209/02** (2013.01 - EP); **C02F 2209/03** (2013.01 - EP); **C02F 2209/06** (2013.01 - EP); **C02F 2209/42** (2013.01 - EP); **C02F 2303/06** (2013.01 - EP)

Citation (search report)

See references of WO 2012146324A1

Citation (examination)

- US 2011089109 A1 20110421 - ULMERT HANS DAVID [SE], et al
- US 5720882 A 19980224 - STENDAHL KJELL [SE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2012146324 A1 20121101**; EP 2701827 A1 20140305

DOCDB simple family (application)

**EP 2011072738 W 20111214**; EP 11802892 A 20111214