

Title (en)

WATER TREATMENT SYSTEM AND METHOD OF USING THE SAME

Title (de)

WASSERBEHANDLUNGSSYSTEM UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)

SYSTÈME DE TRAITEMENT D'EAU ET SON PROCÉDÉ D'UTILISATION

Publication

EP 3914560 A1 20211201 (EN)

Application

EP 20702933 A 20200124

Priority

- NL 2022454 A 20190125
- NL 2020050037 W 20200124

Abstract (en)

[origin: WO2020153846A1] A water treatment system comprises a reactor (10) having a first zone (11) and having a second zone (12). A water inlet (21) for receiving an intake water flow is provided to said first zone (11) and a water outlet (22) is present for discharging an output water flow from said second zone. Bubble generator means (50) generate, during operation, gas bubbles, particularly micro bubbles, and mix these with the intake water flow. Foam removal means (30) are used for separating and evacuating a foam layer (16) floating at a waterline (15) of said second zone (12). These foam removal means comprise a foam collection device (33) having an entrance (31) beyond a level of said foam layer and having a foam outlet (32). The reactor is provided with water level control means that maintain said waterline (15) within said reactor and said foam layer (16) below a level of said entrance (31) of said foam collection device (30). Said water level control means enable raising said waterline substantially to beyond a level of said entrance of said foam collection device, thereby discharging said foam layer at least substantially from said waterline.

IPC 8 full level

B03D 1/14 (2006.01); **C02F 1/00** (2006.01); **C02F 1/24** (2006.01); **C02F 1/74** (2006.01); **C02F 103/22** (2006.01)

CPC (source: EP)

B03D 1/02 (2013.01); **B03D 1/028** (2013.01); **B03D 1/082** (2013.01); **B03D 1/1412** (2013.01); **B03D 1/1431** (2013.01); **B03D 1/145** (2013.01); **C02F 1/24** (2013.01); **B03D 2203/001** (2013.01); **B03D 2203/008** (2013.01); **C02F 1/001** (2013.01); **C02F 2103/22** (2013.01); **C02F 2203/008** (2013.01); **C02F 2209/42** (2013.01); **C02F 2303/04** (2013.01)

Citation (search report)

See references of WO 2020153846A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020153846 A1 20200730; EP 3914560 A1 20211201; NL 2022454 B1 20200818

DOCDB simple family (application)

NL 2020050037 W 20200124; EP 20702933 A 20200124; NL 2022454 A 20190125