

Title (en)

WATER TREATMENT FACILITY AND METHOD

Title (de)

WASSERBEHANDLUNGSANLAGE UND -VERFAHREN

Title (fr)

INSTALLATION ET PROCEDE POUR LE TRAITEMENT DE L'EAU

Publication

EP 4323315 A1 20240221 (FR)

Application

EP 22722702 A 20220411

Priority

- FR 2103759 A 20210412
- EP 2022059660 W 20220411

Abstract (en)

[origin: WO202218939A1] The invention pertains to the technical field of water treatment. The invention relates to a water treatment facility comprising: supply means (A) for feeding the water to be treated; optionally a coagulation and/or flocculation zone (Z) into which the supply means (A) for feeding the water to be treated (E) run; a flotation reactor RFLO comprising an inlet and a gravity filter Fg into which water from the flotation reactor RFLO can flow by gravity, the gravity filter having a single-layer filtering media bed distributed over a height of 1 m or less. The facility comprises at least one high-rate monolayer filter (HRMF) for filtering the flotation-filtered water from the gravity filter Fg. A facility according to the invention can comprise a desalination and/or potabilization unit using membrane treatment, in particular reverse osmosis, in order to desalinate and/or make the pretreated water from the high-rate monolayer filter drinkable.

IPC 8 full level

C02F 9/00 (2023.01); **C02F 1/24** (2023.01); **C02F 1/44** (2023.01); **C02F 1/52** (2023.01)

CPC (source: EP US)

C02F 9/00 (2013.01 - EP US); **C02F 1/001** (2013.01 - EP); **C02F 1/004** (2013.01 - US); **C02F 1/24** (2013.01 - EP US); **C02F 1/441** (2013.01 - EP US); **C02F 1/52** (2013.01 - EP US); **C02F 2301/08** (2013.01 - US); **Y02A 20/131** (2018.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

FR 3121673 A1 20221014; AU 2022257254 A1 20231026; CN 117580808 A 20240220; EP 4323315 A1 20240221; US 2024199465 A1 20240620; WO 202218939 A1 20221020

DOCDB simple family (application)

FR 2103759 A 20210412; AU 2022257254 A 20220411; CN 202280031503 A 20220411; EP 2022059660 W 20220411; EP 22722702 A 20220411; US 202218554857 A 20220411