

Title (en)
WASTE WATER TREATMENT PLANT

Title (de)
ABWASSERBEHANDLUNGSANLAGE

Title (fr)
OUVRAGE D'ASSAINISSEMENT DES EAUX USÉES

Publication
EP 4007741 A1 20220608 (FR)

Application
EP 20739715 A 20200716

Priority
• FR 1908863 A 20190801
• EP 2020070218 W 20200716

Abstract (en)
[origin: WO2021018629A1] Disclosed is a waste water treatment plant comprising: - means for introducing the waste water; - a pre-filter device transforming the waste water into pre-treated water that comprises a pre-treatment vessel containing lignocellulosic compounds and microorganisms; - discharging means for discharging the pre-treated water; - at least one planted filter device transforming the pre-treated water into treated water, arranged in series and positioned downstream of the pre-filter device and supplied with pre-treated water by the discharging means, - the planted filter device comprising distribution means supplied by these discharging means, and a filter bed constituting a culture medium for semi-aquatic plant species, - the filter bed comprises at least three layers of minerals including a filtering layer, a transition layer, and a draining layer; - means for draining the treated water, on which the draining layer opens, configured to drain the treated water out of the planted filter device.

IPC 8 full level
C02F 3/32 (2006.01); **C02F 1/00** (2006.01); **C02F 3/04** (2006.01); **C02F 3/10** (2006.01); **C02F 3/12** (2006.01)

CPC (source: EP)
C02F 1/004 (2013.01); **C02F 3/04** (2013.01); **C02F 3/043** (2013.01); **C02F 3/046** (2013.01); **C02F 3/105** (2013.01); **C02F 3/109** (2013.01); **C02F 3/121** (2013.01); **C02F 3/1242** (2013.01); **C02F 3/327** (2013.01); **C02F 2103/002** (2013.01); **C02F 2103/005** (2013.01); **Y02W 10/10** (2015.05)

Citation (search report)
See references of WO 2021018629A1

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 2021018629 A1 20210204; EP 4007741 A1 20220608; FR 3099473 A1 20210205; FR 3099473 B1 20210806

DOCDB simple family (application)
EP 2020070218 W 20200716; EP 20739715 A 20200716; FR 1908863 A 20190801