

Title (en)
SEWAGE TREATMENT PLANT

Title (de)
KLÄRANLAGE

Title (fr)
STATION D'ÉPURATION

Publication
EP 2387550 A2 20111123 (DE)

Application
EP 10706901 A 20100115

Priority
• DE 2010000065 W 20100115
• DE 102009004619 A 20090115

Abstract (en)
[origin: WO2010081471A2] Sewage treatment has a nearly 150 year old tradition. During this time a method has been developed that is considered to be state of the art. Said method does meet the requirements presented, but is complicated and expensive. The novel method breaks open the rigidly established technology and simplifies the same. In a plurality of process steps, only gravity is used as the sole energy source, which is available everywhere and costs nothing. In said manner, an "alternative sewage treatment plant" was developed that is simpler in method at the same capacity and is less expensive in investment and operating costs, and requires only a fraction of the previously required area. The most important characteristic of the invention is that the solids are separated from the sewage immediately after entering the sewage treatment plant using a novel method. The mechanically purified water can be purified more quickly, easily, and cheaply. Novel paths are also taken in sludge treatment. The sludge is considered to be an energy carrier or resource that should be used accordingly. According to the invention, the prerequisite for using the sludge is also achieved by economical drying to 95-98% dry solids.

IPC 8 full level
C02F 1/54 (2006.01); **C02F 3/04** (2006.01); **C02F 11/12** (2019.01); **C02F 11/123** (2019.01); **C02F 11/13** (2019.01)

CPC (source: EP US)
C02F 3/04 (2013.01 - EP US); **C02F 11/12** (2013.01 - EP US); **C02F 11/123** (2013.01 - EP US); **C02F 11/13** (2018.12 - EP US); **Y02W 10/10** (2015.05 - EP US)

Citation (search report)
See references of WO 2010081471A2

Citation (examination)
US 2010218573 A1 20100902 - VAN SLYKE VICTOR [CA]

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
RS

DOCDB simple family (publication)
WO 2010081471 A2 20100722; WO 2010081471 A3 20101028; DE 102009004619 A1 20110217; EP 2387550 A2 20111123; MA 33036 B1 20120201; RU 2011134036 A 20130220; US 2012097607 A1 20120426

DOCDB simple family (application)
DE 2010000065 W 20100115; DE 102009004619 A 20090115; EP 10706901 A 20100115; MA 34077 A 20110805; RU 2011134036 A 20100115; US 201013138170 A 20100115