

Title (en)

Sewage treatment plant with follow-up of the environmental impact

Title (de)

Kläranlage mit Umwelteinflusserfassung

Title (fr)

Station de traitement d'eau avec suivi de l'impact environnemental

Publication

EP 2312508 A1 20110420 (FR)

Application

EP 10306109 A 20101013

Priority

FR 0957196 A 20091014

Abstract (en)

The station (10) comprises a reactor for treating water, sensors (28) for instantaneously measuring intake of substance, sensors (32) for instantaneously measuring discharge of substances, sensors for instantaneously measuring energy consumption of the reactor, an environmental footprint database, a calculation unit, a unit for providing calculated environmental impact, a gripping unit, and a unit for calculating cumulative environmental impact with part of the calculated environmental impact and periods between the instantaneously calculated environmental impacts. The station (10) comprises a reactor for treating water, sensors (28) for instantaneously measuring intake of substance, sensors (32) for instantaneously measuring discharge of substances, sensors for instantaneously measuring energy consumption of the reactor, an environmental footprint database, a calculation unit, a unit for providing calculated environmental impact, a gripping unit, and a unit for calculating cumulative environmental impact with part of the calculated environmental impact and periods between the instantaneously calculated environmental impacts. The environmental footprint database includes elementary environmental footprint of intaken substance, discharged substance and measured energy consumption. The calculation unit is configured for continuously calculating each environmental impact determined from the measured values of the intaken substance, discharged substance and measured energy consumption.

Abstract (fr)

La station de traitement d'eau comporte au moins un réacteur (20) de traitement d'eau, des capteurs (28A) de mesure instantanée de l'apport en substances apportées, des capteurs (32A, 32B) de mesure instantanée des rejets en substances rejetées, des capteurs (38A, 38B) de mesure instantanée des consommations énergétiques du réacteur (20), une base de données des empreintes environnementales (52) comportant les empreintes environnementales élémentaires de chaque substance apportée, chaque substance rejetée, chaque consommation énergétique mesurée, sur au moins un impact environnemental déterminé, des moyens (50) de calcul en continu du ou de chaque impact environnemental instantané déterminé à partir des valeurs mesurées et des empreintes environnementales élémentaires et des moyens (56) de mise à disposition du ou de chaque impact environnemental instantané calculé.

IPC 8 full level

G06Q 10/00 (2006.01); **G06Q 50/00** (2012.01)

CPC (source: EP)

G06Q 50/06 (2013.01)

Citation (search report)

- [X] US 5726884 A 19980310 - STURGEON DOUGLAS H [US], et al
- [A] US 6067549 A 20000523 - SMALLEY DONALD A [US], 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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2312508 A1 20110420; FR 2951154 A1 20110415; FR 2951154 B1 20111209

DOCDB simple family (application)

EP 10306109 A 20101013; FR 0957196 A 20091014