Title (en)
COATED SELF-DISINFECTING DRAIN TRAP IN DRAINAGE PIPES

Title (de)
BESCHICHTETER SELBSTDESINFIZIERENDER GERUCHSVERSCHLUSS IN ABWASSERLEITUNGEN

Title (fr)
SIPHON AUTO-DÉSINFECTANT DOTÉ D'UN REVÊTEMENT, INSTALLÉ SUR DES CANALISATIONS D'EAUX USÉES

Publication
**EP 3294962 A1 20180321 (DE)**

Application
**EP 16722881 A 20160512**

Priority
• DE 102015006286 A 20150515
• EP 2016060772 W 20160512

Abstract (en)
[origin: WO2016184788A1] Disclosed is a self-disinfecting drain trap in drainage pipes, featuring the automatic functions "cleaning", "disinfecting" and "decomposition of organic matter" in the sealing liquid without interruption of the proper sealing function; the cleaning, disinfection and decomposition of organic matter are done using an activated titanium dioxide nano-coating (3) which is applied to the inner wall (1A) of the drain trap and is activated by irradiating same with at least one light source (4) located inside or outside the drain trap in such a way that the interior of the drain trap and the sealing liquid (14) located therein are disinfected and simultaneously decontaminated of organic matter and in such a way that the superhydrophilic effect of the activated titanium dioxide nano-coating (3) results in the active titanium dioxide nano-coating (3) being continuously cleaned in a hydraulic-mechanical fashion, thereby preventing dirt particles that cannot be eliminated by catalytic oxidation from sticking to the nano-coating and thus dirt layers from forming, which would otherwise cause the titanium dioxide nano-coating (3) to become ineffective during operation.

IPC 8 full level
**E03C 1/126** (2006.01); **E03C 1/28** (2006.01)

CPC (source: EP)
**E03C 1/126** (2013.01); **E03C 1/28** (2013.01)

Citation (search report)
See references of WO 2016184788A1

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)
**DE 102015006286 A1 20161117**; EP 3294962 A1 20180321; EP 3294962 B1 20190814; ES 2755727 T3 20200423; PL 3294962 T3 20200331; WO 2016184788 A1 20161124

DOCDB simple family (application)
**DE 102015006286 A 20150515**; EP 16722881 A 20160512; EP 2016060772 W 20160512; ES 16722881 T 20160512; PL 16722881 T 20160512