

Title (en)
WATER INTEGRITY AND APPARATUS FOR MEASURING HYDROGEN PEROXIDE IN WATER TREATMENT AND DISTRIBUTION SYSTEMS

Title (de)
WASSERINTEGRITÄT UND VORRICHTUNG ZUR MESSUNG VON WASSERSTOFFPEROXID IN WASSERAUFBEREITUNGS- UND VERTEILUNGSSYSTEMEN

Title (fr)
INTÉGRITÉ DE L'EAU ET DISPOSITIF POUR MESURER LE PEROXYDE D'HYDROGÈNE DANS DES SYSTÈMES DE TRAITEMENT ET DE DISTRIBUTION DE L'EAU

Publication
EP 3137424 A1 20170308 (EN)

Application
EP 14866451 A 20140613

Priority

- CA 2835012 A 20131129
- US 201314094754 A 20131202
- US 201462001204 P 20140521
- US 201414292593 A 20140530
- CA 2014000503 W 20140613

Abstract (en)
[origin: WO2015077863A1] As a measure of water integrity in water treatment and distribution systems, stabilized hydrogen peroxide is used as the secondary disinfectant. The concentration of hydrogen peroxide is monitored throughout the system and, if needed, additional hydrogen peroxide is injected into the system to maintain the level at established standard. An apparatus and method for measuring hydrogen peroxide concentration in water to an accuracy of 0.1 mg/L within water treatment and distribution systems comprises a colorimetric assay method to determine hydrogen peroxide concentration. The assay is monitored spectrophotometrically at a desired wavelength. Each sample is corrected relative to a control sample and hydrogen peroxide concentration determined with respect to a standard curve.

IPC 8 full level
C02F 1/50 (2006.01); **C02F 1/72** (2006.01); **G01N 31/22** (2006.01); **G01N 33/18** (2006.01)

CPC (source: EP)
C02F 1/008 (2013.01); **C02F 1/325** (2013.01); **C02F 1/686** (2013.01); **C02F 1/722** (2013.01); **G01N 21/78** (2013.01); **G01N 31/22** (2013.01); **G01N 33/18** (2013.01); **C02F 2209/005** (2013.01)

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

DOCDB simple family (publication)
WO 2015077863 A1 20150604; CA 2932022 A1 20150604; EP 3137424 A1 20170308; EP 3137424 A4 20180718

DOCDB simple family (application)
CA 2014000503 W 20140613; CA 2932022 A 20140613; EP 14866451 A 20140613