

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 A4 20180718 (EN)

Application
EP 14866451 A 20140613

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• 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.

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Citation (search report)
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• [Y] US 2004006513 A1 20040108 - WOLFE THOMAS D [US]
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• [A] US 2002104787 A1 20020808 - MURAYAMA SEIICHI [JP], et al
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