

Title (en)

ARRANGEMENT AND METHOD FOR DETECTING HYDROGEN PEROXIDE

Title (de)

ANORDNUNG UND VERFAHREN ZUM DETEKTIEREN VON WASSERSTOFFPEROXID

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE DÉTECTER DU PEROXYDE D'HYDROGÈNE

Publication

EP 2673632 A1 20131218 (DE)

Application

EP 11807884 A 20111214

Priority

- DE 102011003720 A 20110207
- EP 2011072795 W 20111214

Abstract (en)

[origin: WO2012107134A1] The invention relates to an arrangement for detecting hydrogen peroxide. The arrangement comprises a sample space (12) for receiving a hydrogen-peroxide-containing gas, wherein the sample space (12) is fluidically connected to a hydrogen-peroxide-selective colorimetric detection reagent (28), at least one radiation source (32) for irradiating the detection reagent (28) and at least one detector (34) for detecting at least one optical property of the colorimetric detection reagent. An arrangement of this type enables detection of hydrogen peroxide in the gaseous phase without the need to transfer hydrogen peroxide to the liquid phase. As a result, a simplified measurement behaviour and additionally a highly sensitive measurement are attained.

IPC 8 full level

G01N 31/22 (2006.01); **A61L 2/28** (2006.01); **C12Q 1/22** (2006.01); **C12Q 1/28** (2006.01); **G01N 21/78** (2006.01)

CPC (source: EP US)

C12Q 1/22 (2013.01 - EP US); **G01N 21/783** (2013.01 - EP US); **G01N 31/223** (2013.01 - US); **G01N 31/226** (2013.01 - EP US); **Y10T 436/206664** (2015.01 - EP US)

Citation (search report)

See references of WO 2012107134A1

Citation (examination)

- JP H0662894 A 19940308 - TOKYO KASEI KOGYO KK, et al
- DE 10105528 A1 20020808 - BASF AG [DE]

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)

DE 102011003720 A1 20120809; CN 103339503 A 20131002; EP 2673632 A1 20131218; JP 2014505260 A 20140227; US 2014057360 A1 20140227; WO 2012107134 A1 20120816

DOCDB simple family (application)

DE 102011003720 A 20110207; CN 201180066911 A 20111214; EP 11807884 A 20111214; EP 2011072795 W 20111214; JP 2013552861 A 20111214; US 201113983142 A 20111214