

Title (en)
DETERMINATION OF THE SALT CONCENTRATION OF AN AQUEOUS SOLUTION

Title (de)
BESTIMMUNG DER SALZKONZENTRATION EINER WÄSSRIGEN LÖSUNG

Title (fr)
DETERMINATION DE LA CONCENTRATION EN SEL D'UNE SOLUTION AQUEUSE

Publication
EP 2344865 A1 20110720 (FR)

Application
EP 09760162 A 20091016

Priority
• FR 2009051977 W 20091016
• FR 0857091 A 20081017

Abstract (en)
[origin: WO2010043825A1] Method for determining the concentration of a salt possibly present in a product containing at least water, comprising the following steps: a) recording the Raman spectrum of the photons scattered by the product in a wavenumber range of between 2500 and 4000 cm⁻¹; b) determining, for a given temperature of the product, two points of said spectrum corresponding to two specific wavenumber values; c) calculating the ratio of two magnitudes representative of said points, by means of which a measurement ratio is obtained; d) comparing said measurement ratio to a reference graph representative of the concentration of the salt for various temperatures as a function of the concentration of said salt. Advantageously, the method does not require samples to be taken and can be contact-free.

IPC 8 full level
G01N 21/65 (2006.01); **G01J 3/44** (2006.01); **G01N 33/18** (2006.01); **G08B 19/02** (2006.01)

CPC (source: EP KR US)
G01N 9/24 (2013.01 - KR); **G01N 21/65** (2013.01 - EP KR US); **G01N 33/18** (2013.01 - KR); **G01N 33/1873** (2024.05 - EP);
G01N 33/02 (2013.01 - EP US); **G01N 33/1873** (2024.05 - US)

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2010043825 A1 20100422; CA 2740828 A1 20110422; CN 102187205 A 20110914; EP 2344865 A1 20110720; FR 2937421 A1 20100423;
FR 2937421 B1 20101231; JP 2012506040 A 20120308; KR 20110086704 A 20110729; RU 2011119618 A 20121127;
US 2011222055 A1 20110915

DOCDB simple family (application)
FR 2009051977 W 20091016; CA 2740828 A 20091016; CN 200980141472 A 20091016; EP 09760162 A 20091016; FR 0857091 A 20081017;
JP 2011531544 A 20091016; KR 20117011104 A 20091016; RU 2011119618 A 20091016; US 200913124012 A 20091016