

Title (en)

OPTICAL MEASURING UNIT AND OPTICAL MEASURING METHOD FOR OBTAINING MEASUREMENT SIGNALS OF FLUID MEDIA

Title (de)

OPTISCHE MESSEINHEIT UND OPTISCHES MESSVERFAHREN ZUR GEWINNUNG VON MESSSIGNALEN VON FLÜSSIGEN MEDIEN

Title (fr)

UNITÉ DE MESURE OPTIQUE ET PROCÉDÉ DE MESURE OPTIQUE POUR OBTENIR DES SIGNAUX DE MESURE DE MILIEUX LIQUIDES

Publication

**EP 3784400 A1 20210303 (DE)**

Application

**EP 19720759 A 20190412**

Priority

- AT 503402018 A 20180423
- AT 2019060123 W 20190412

Abstract (en)

[origin: WO2019204840A1] The invention relates to an optical measuring unit (500) for obtaining measurement signals of fluid media which are received in cuvettes (201) that lie against each other in a row, comprising a light-providing unit (540) for dispensing an inlet radiation into the cuvettes (201) and comprising a detection unit (550) for detecting a measurement radiation exiting the cuvettes (201) and converting the measurement radiation into an electric measurement signal. According to the invention, the light-providing unit (540) has multiple LED light sources (541) with an emission that varies spectrally in the UV/VIS/NIR wavelength range, wherein the cuvettes (201) lying against each other in a row form a stationary cuvette array (200), and the detection unit (550) of the optical measuring unit (500) is designed such that each cuvette (201) of the cuvette array (200) is paired with at least one photodiode (551) in a fixed manner.

IPC 8 full level

**B01L 3/02** (2006.01); **B01L 3/00** (2006.01); **G01N 21/00** (2006.01); **G01N 21/25** (2006.01); **G01N 35/00** (2006.01); **G01N 35/02** (2006.01); **G01N 35/04** (2006.01); **G01N 35/10** (2006.01)

CPC (source: EP US)

**B01L 3/5085** (2013.01 - EP US); **G01N 21/0303** (2013.01 - US); **G01N 21/253** (2013.01 - EP); **G01N 21/31** (2013.01 - US); **G01N 21/51** (2013.01 - EP); **B01L 2300/0654** (2013.01 - EP US); **B01L 2300/0829** (2013.01 - EP US); **B01L 2300/0832** (2013.01 - US); **B01L 2300/168** (2013.01 - US); **G01N 2021/0389** (2013.01 - US); **G01N 2201/062** (2013.01 - US); **G01N 2201/0627** (2013.01 - EP); **G01N 2201/0633** (2013.01 - US)

Citation (search report)

See references of WO 2019204840A1

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)

**WO 2019204840 A1 20191031**; CN 112004604 A 20201127; CN 112004604 B 20230203; EP 3784400 A1 20210303; US 2021239604 A1 20210805

DOCDB simple family (application)

**AT 2019060123 W 20190412**; CN 201980027812 A 20190412; EP 19720759 A 20190412; US 201917049833 A 20190412