

Title (en)  
VIRTUAL FIDUCIALS

Title (de)  
VIRTUELLE BEZUGSMARKER

Title (fr)  
REPÈRES VIRTUELS

Publication  
**EP 4031922 A4 20221207 (EN)**

Application  
**EP 20876361 A 20201019**

Priority  
• US 201916658052 A 20191019  
• US 202016824632 A 20200319  
• US 2020056302 W 20201019

Abstract (en)  
[origin: WO2021077075A1] The application refers to a microscope for locating structures on the inner surface of a fluidic channel. The microscope has a fiducial mask and fiducial lens generating a collimated mask image onto a beam splitter which directs the optical image to an objective lens where it is directed to an optical discontinuity formed by the change of index of refraction of the inner surface of a fluidic channel. Reflected optical energy is directed through the objective lens, the beam splitter, and a detector lens to a detector. A focused image forms when an inner surface of the fluidic channel is a focal distance from the objective lens, providing for imaging of fluorescent labels at the inner surface of the fluidic channel.

IPC 8 full level  
**G02B 21/00** (2006.01); **G01N 21/64** (2006.01); **G01N 33/533** (2006.01); **G02B 21/24** (2006.01); **G02B 27/34** (2006.01)

CPC (source: EP KR)  
**G02B 21/0032** (2013.01 - EP); **G02B 21/006** (2013.01 - EP); **G02B 21/0076** (2013.01 - EP); **G02B 21/245** (2013.01 - EP KR); **G02B 27/34** (2013.01 - EP KR); **G01N 21/6458** (2013.01 - EP KR)

Citation (search report)  
• [XAY] WO 2010103389 A1 20100916 - SENSOVATION AG [DE], et al  
• [XA] JP H09133856 A 19970520 - NIKON CORP  
• [YA] WO 2016061484 A2 20160421 - ILLUMINA INC [US]  
• See also references of WO 2021077075A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021077075 A1 20210422**; AU 2020366521 A1 20220519; AU 2020366521 B2 20240307; CA 3158318 A1 20210420; CN 114585958 A 20220603; CN 114585958 B 20240528; EP 4031922 A1 20220727; EP 4031922 A4 20221207; JP 2022552743 A 20221219; KR 20220084147 A 20220621

DOCDB simple family (application)  
**US 2020056302 W 20201019**; AU 2020366521 A 20201019; CA 3158318 A 20201019; CN 202080073343 A 20201019; EP 20876361 A 20201019; JP 2022523406 A 20201019; KR 20227016636 A 20201019