

Title (en)

LASER-INDUCED SPECTROSCOPY SYSTEM AND PROCESS

Title (de)

LASERINDUZIERTES SPEKTROSKOPIESYSTEM UND VERFAHREN

Title (fr)

SYSTÈME ET PROCÉDÉ DE SPECTROSCOPIE INDUITE PAR LASER

Publication

**EP 4025900 A4 20231227 (EN)**

Application

**EP 20861366 A 20200821**

Priority

- US 201916561638 A 20190905
- US 201916561704 A 20190905
- US 2020047309 W 20200821

Abstract (en)

[origin: WO2021045911A1] Specialized linkage assemblies for Laser-Induced Breakdown Spectroscopy ("LIBS") systems are provided. The linkage assemblies may facilitate the attachment of the laser housing of the LIBS system onto an existing sample supply chamber, such as a volumetric or gravimetric feeder. Generally, the linkage assemblies may comprise a specialized purge head and inert gas assembly that facilitate the attachment of the laser housing and may enhance the functionality of the LIBS system.

IPC 8 full level

**G01N 21/71** (2006.01); **G01J 3/30** (2006.01); **G01N 21/15** (2006.01); **G01N 21/85** (2006.01); **G01J 3/02** (2006.01); **G01J 3/443** (2006.01)

CPC (source: CN EP KR)

**G01J 3/0202** (2013.01 - KR); **G01J 3/0208** (2013.01 - KR); **G01J 3/0291** (2013.01 - KR); **G01J 3/443** (2013.01 - KR); **G01N 21/01** (2013.01 - CN); **G01N 21/718** (2013.01 - CN EP KR); **G01N 21/85** (2013.01 - EP); **G01N 33/222** (2013.01 - CN); **G01J 3/0202** (2013.01 - EP); **G01J 3/0208** (2013.01 - EP); **G01J 3/0291** (2013.01 - EP); **G01J 3/443** (2013.01 - EP); **G01N 2021/151** (2013.01 - EP KR)

Citation (search report)

- [XA] CN 105738348 A 20160706 - UNIV SCIENCE & TECH CHINA
- [X] US 2016131581 A1 20160512 - SUN LANXIANG [CN], et al
- [A] US 2013265565 A1 20131010 - DAVIS VAUGHN E [US], et al
- [A] US 2016084709 A1 20160324 - DAY DAVID R [US], et al
- [XI] US 2014204377 A1 20140724 - DAY DAVID R [US], et al
- See references of WO 2021045911A1

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)

**WO 2021045911 A1 20210311**; CN 114424051 A 20220429; EP 4025900 A1 20220713; EP 4025900 A4 20231227; KR 20220053654 A 20220429

DOCDB simple family (application)

**US 2020047309 W 20200821**; CN 202080063209 A 20200821; EP 20861366 A 20200821; KR 20227010574 A 20200821