

Title (en)  
ANALYTE SENSING DEVICE

Title (de)  
ANALYTERFASSUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE DÉTECTION D'ANALYTES

Publication  
**EP 4107518 A4 20240306 (EN)**

Application  
**EP 21757136 A 20210222**

Priority  

- US 202062979095 P 20200220
- US 202016887293 A 20200529
- US 202063088541 P 20201007
- US 2021019110 W 20210222

Abstract (en)  
[origin: WO2021168444A1] A sensing device for detecting analytes within a package or container is disclosed. The sensing device may include a substrate, one or more electrodes, and a sensor array disposed on the substrate. The sensor array may include a plurality of carbon-based sensors coupled to the one or more electrodes. Each sensor may be configured to react with a unique group of analytes in response to an electromagnetic signal received from an external device. In some instances, a first sensor may be functionalized with a first material configured to detect the presence of each analyte of a first group of analytes, and a second sensor may be functionalized with a second material configured to detect the presence of each analyte of a second group of analytes. The second group of analytes may be a subset of the first group of analytes, and the second material may be different than the first material.

IPC 8 full level  
**G01N 27/414** (2006.01); **B01J 20/28** (2006.01); **C01B 32/18** (2017.01); **C01B 32/182** (2017.01); **C01B 32/194** (2017.01); **G01N 27/02** (2006.01); **G01N 27/12** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP IL KR)  
**C01B 32/18** (2017.08 - EP IL); **C01B 32/194** (2017.08 - EP IL); **G01N 27/026** (2013.01 - EP); **G01N 27/127** (2013.01 - EP); **G01N 33/0031** (2013.01 - EP IL KR); **B01L 2300/0636** (2013.01 - KR); **B01L 2300/0645** (2013.01 - KR); **B01L 2300/12** (2013.01 - KR); **G01N 27/026** (2013.01 - KR)

Citation (search report)  

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- See also references of WO 2021168444A1

Designated contracting state (EPC)  
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