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(56) References cited:
US-A1- 2015 092 194

- **SCHOLZ LOUISA ET AL: "Miniature Low-Cost Carbon Dioxide Sensor for Mobile Devices", IEEE SENSORS JOURNAL, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 17, no. 9, May 2017 (2017-05-01), pages 2889 - 2895, XP011645739, ISSN: 1530-437X, [retrieved on 20170410], DOI: 10.1109/JSEN.2017.2682638**
- **KNOBELSPIES STEFAN ET AL: "Low-cost gas sensing system for the reliable and precise measurement of methane, carbon dioxide and hydrogen sulfide in natural gas and biomethane", SENSORS AND ACTUATORS B: CHEMICAL, ELSEVIER BV, NL, vol. 236, 22 March 2016 (2016-03-22), pages 885 - 892, XP029700012, ISSN: 0925-4005, DOI: 10.1016/J.SNB.2016.03.022**
- **VALENTIN WITTSTOCK ET AL: "Design of a LED-based sensor for monitoring the lower explosion limit of methane", SENSORS AND ACTUATORS B: CHEMICAL, vol. 247, August 2017 (2017-08-01), NL, pages 930 - 939, XP055633578, ISSN: 0925-4005, DOI: 10.1016/j.snb.2017.03.086**

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