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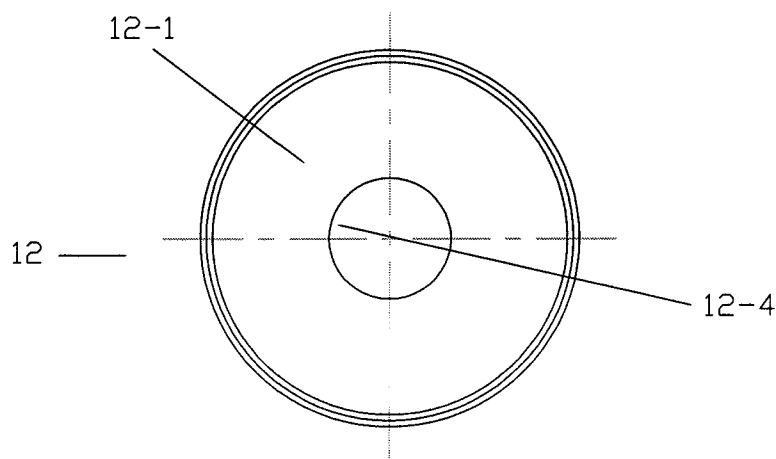
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(54) Title: OXYGEN SENSORS



(57) Abstract: An electrochemical oxygen sensor includes a micro-porous plastic membrane supported on a sealing disk and located between a gas inflow port and the sensor's electrolyte. The membrane and disk minimize thermal shock effects due to using the sensor at a first location, at a first temperature, and then moving it to a second location at a different temperature.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G01N 27/407 (2008.04)

USPC - 204/412; 205/783

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): G01N 27/407 (2008.04); USPC: 204/412; 205/783

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 204/402, 412, 415, 431; 205/783 (keyword limited -- see keywords below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB,USPT,EPAB,JPAB); GOOGLE SCHOLAR: electrochemical, oxygen, membrane, gasket, porous, sensor, support, housing, electrode, counter, annular, round

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 6,024,853 A (KIESELE et al.) 15 February 2000 (15.02.2000), entire document; Abstract; col 2, ln 50-66; Fig 1; col 3, ln 25-26; Fig 3.	1-3, 11 -- 4-10, 12-17
Y	US 5,401,376 A (FOOS et al.) 28 March 1995 (28.03.1995), entire document; Abstract; 15, ln 58-65; Fig 3-4; col 3, ln 54-58; col 9, ln 32-40; Fig 1; col 5, ln 35-36; col 26, ln 36-37.	4-10, 12-17

☐ Further documents are listed in the continuation of Box C.

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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