# United States Defensive Publication [19] (H) [11] T979,002

Akiyama et al. [43] Feb. 6, 1979


[54] **OXYGEN CONCENTRATION DETECTOR**


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[73] Assignee: **Nippondenso Co., Ltd.**, Kariya, Japan



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[51] Int. Cl.[2] ..... **G01N 27/58**

[52] U.S. Cl. ..... **204/195 S**



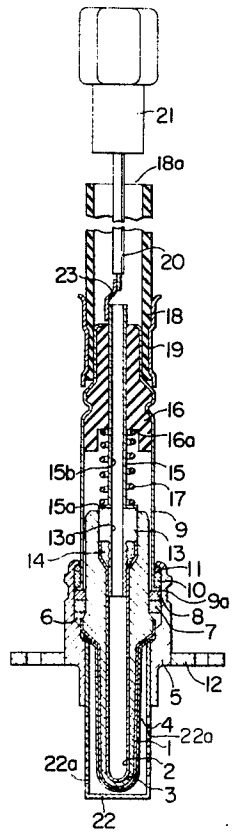
[57] **ABSTRACT**

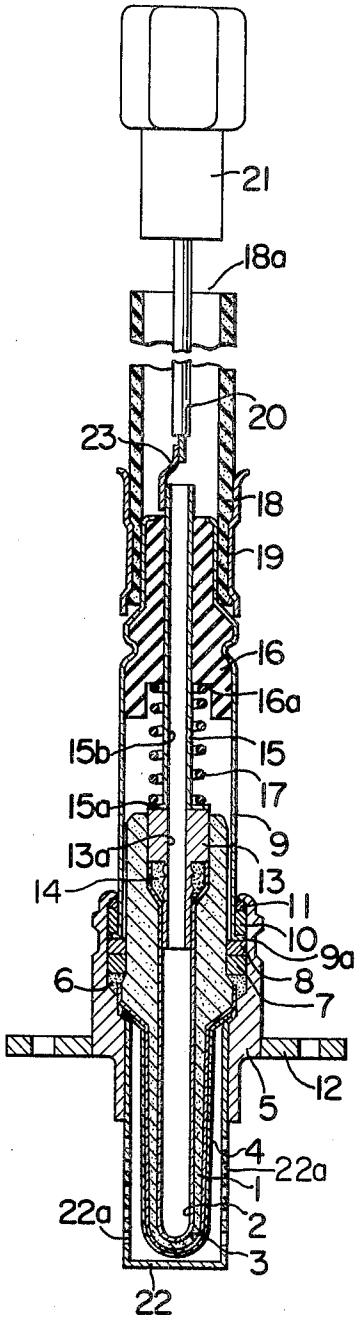
An oxygen concentration detector of a waterproof construction comprises an oxygen ion conduction metal oxide (1) which produces an electromotive force in accordance with a difference between an oxygen concentration in gas component in a gas under test such as exhaust gas from an internal combustion engine of an automobile and an oxygen concentration in the atmosphere. The structure includes a coaxially arranged inner tube and an outer tube with the inner tube being housed in the outer tube with a water proof structure being interposed therebetween. The inner tube constitutes a lead wire to be electrically connected to that one of two electrodes for taking out the electromotive force which is created. The outer tube (**18**) serves to expose the inner electrode (**2**) to the atmosphere at a site such that water may not be splashed into the interior of the sensor.


**4 Claims, 1 Sheet Drawing,**

**13 Pages Specification**


The file of this unexamined application may be inspected and copies thereof may be purchased (849 O.G. 1221, Apr. 9, 1968).


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