Oxygen Sensitive Paper

The problem:
Accurate oxygen concentration analyses are always performed by rather large, bulky, and expensive apparatus which are not suitable for field use. Detailed analysis, however, is often unnecessary in applications that require oxygen detection or measurement of its approximate concentration.

The solution:
An oxygen sensitive paper has been developed which detects oxygen concentration as low as several parts per billion.

How it's done:
The paper is impregnated with a mixture of methylene blue and ethylenediamintetraacetic acid which is the oxygen sensitive constituent. The methylene blue is then photo-reduced to the leuco-form. The paper is kept isolated from oxygen until it is ready for use. The paper can be reused by photo-reduction after exposure to oxygen.

Note:
Requests for further information may be directed to:
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Patent status:
Inquiries concerning rights for the commercial use of this invention should be addressed to:
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