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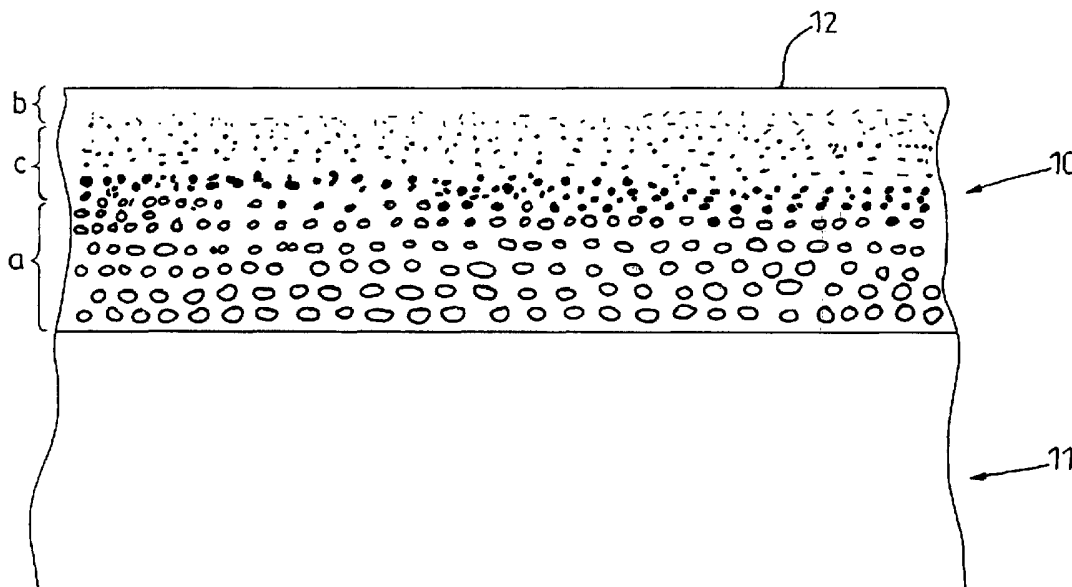
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(54) Title: LOW DIELECTRIC CONSTANT LAYERS



(57) Abstract: This invention relates to low dielectric constant layers formed on the substrate having: (a) a base zone, adjacent the substrate, having pores distributed therein, at least the majority of the pores having diameters in the range 1 to 10 nm; (b) an atomically smooth surface zone, spaced from the substrate; and (c) an intermediate zone having pores distributed therein, at least the majority of the pores having diameters equal to or less than 2 nm so that there is a general reduction in pore size from the bottom of the layer towards the top.



WO 03/009364 A3



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## INTERNATIONAL SEARCH REPORT

Internal Application No  
PCT/GB 02/03231

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H01L21/316

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 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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A	column 4; figure 6 claims	2-21
X	EP 0 687 004 A (TEXAS INSTRUMENTS INC) 13 December 1995 (1995-12-13) page 3, line 37 - line 45	1
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Patent family members are listed in annex.

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