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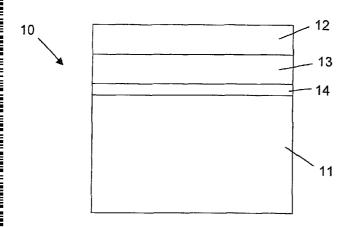
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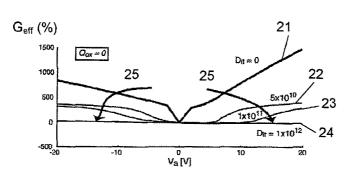
[Continued on next page]

(54) Title: METHOD OF MANUFACTURING A MULTILAYER SEMICONDUCTOR STRUCTURE WITH REDUCED OHMIC LOSSES



(57) Abstract: The present invention provides a method of manufacturing a multilayer semiconductor structure featuring reduced ohmic losses with respect to standard multilayer semiconductor structures. The semiconductor structure comprises a high resistivity silicon substrate with resistivity higher than 3 K Ω .cm, an active semiconductor layer and an insulating layer in between the silicon substrate and the active semiconductor layer. The method comprises suppressing ohmic losses inside the high resistivity silicon substrate by increasing, with regard to prior art devices, charge trap density between the insulating layer and the silicon substrate. In particular this may be obtained by applying an intermediate layer in between the silicon substrate and the insulating layer, the intermediate layer comprising grains having a size, wherein the mean size of the grains of the intermediate layer is smaller than 150 nm, preferably smaller than 50 nm.





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B. FIELDS SEARCHED

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

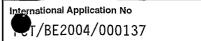
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C. DOCUMENTS CONSIDERED TO BE RELEVANT						
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А	US 6 548 382 B1 (HENLEY FRANCOIS J ET AL) 15 April 2003 (2003-04-15) column 3, line 34 - column 4, line 50; figures 1-3 -/	1–19				

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