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(54) Title: SUPERJUNCTION DEVICE AND METHOD OF MANUFACTURE THEREFORE

(57) Abstract: A process for forming a superjunction device that includes a series of implants to form closely spaced implant regions which are linked together by a short thermal step, whereby deep and narrow regions can be formed within a semiconductor body.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01L 21/336; 31/113
 US CL : 438/209,234,268,270-257,286-289; 257/328,341

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)
 U.S. : 438/209,234,268,270-257,286-289; 257/328,341

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 6,586,798 B1 (Frisina et al.) 01 July 2003 (01.07.2003), column 6, lines 12-15.	1-10
X	US 5,900,662 A (Frisina et al.) 04 May 1999 (04.05.1999) , column 5, lines 20- 45.	11-17

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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