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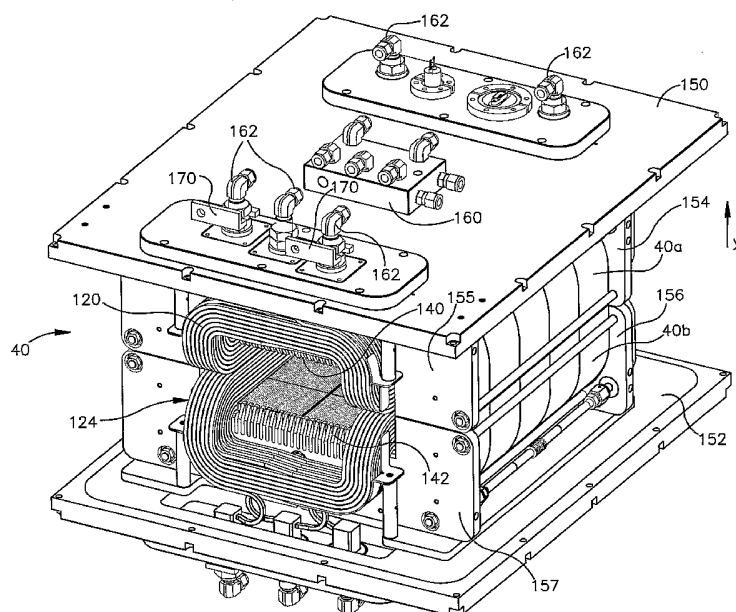
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[Continued on next page]

(54) Title: IMPROVED MAGNET FOR SCANNING ION BEAMS



(57) Abstract: An ion beam implanter includes an ion beam source for generating an ion beam moving along a beam line and a vacuum or implantation chamber wherein a workpiece, such as a silicon wafer is positioned to intersect the ion beam for ion implantation of a surface of the workpiece by the ion beam. A scanning magnet used to control a side to side scanning of the ion beam so that an entire implantation surface of the workpiece can be processed. The core of the scanning magnet comprises an amorphous metal material.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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