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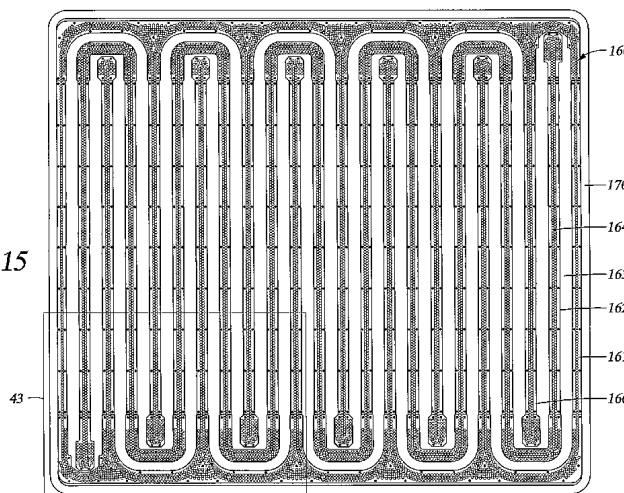
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Fig. 15



(57) Abstract: A rectangular magnetron (160) placed at the back of a rectangular sputter target (16) and having magnets (164) of opposed polarities arranged to form a gap therebetween. corresponding to a plasma track adjacent the target to intensify the plasma causing material sputtered from the target to coat a rectangular panel (14). The gap extends in a closed loop having a serpentine or spiral shape. The magnetron has a size only somewhat less than that of the target and is scanned in the two perpendicular directions of the target with a scan length of, for example, about 100mm for a 2m target. The scan may follow a double-Z pattern along two links parallel to a target side and the two connecting diagonals. External actuators (416) move the magnetron along a two-dimensional path as it is slidably suspended from a gantry (364) sliding perpendicularly on the chamber walls (276).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: C23C 16/00(2006.01)

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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. : 204/192.12, 298.17, 298.18, 298.19, 298.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONEElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y --- A	US 4,631,106 A (NAKAZATO et al) 23 December 1986 (23.12.1986), Column 13 lines 55-56; Figs. 4-8, 10.	1-4, 7, 9-13, 19 ----- 5, 14-18, 21-41
Y --- A	US 4,437,966 A (HOPE et al) 20 March 1984 (20.03.1984), Column 4 lines 40-43; Figs. 4A, 4B, 5.	12, 13, 19
Y --- A	DE 2 707 144 A (CORBANI) 25 August 1977 (25.08.1977), Abstract, Fig. 13, page 10 English Translation.	6, 8, 20, 42-58 ----- 5, 14-18, 21-41
A	US 5,262,030 A (POTTER) 16 November 1993 (16.11.1993), Abstract; Fig. 2C.	1-58



Further documents are listed in the continuation of Box C.



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