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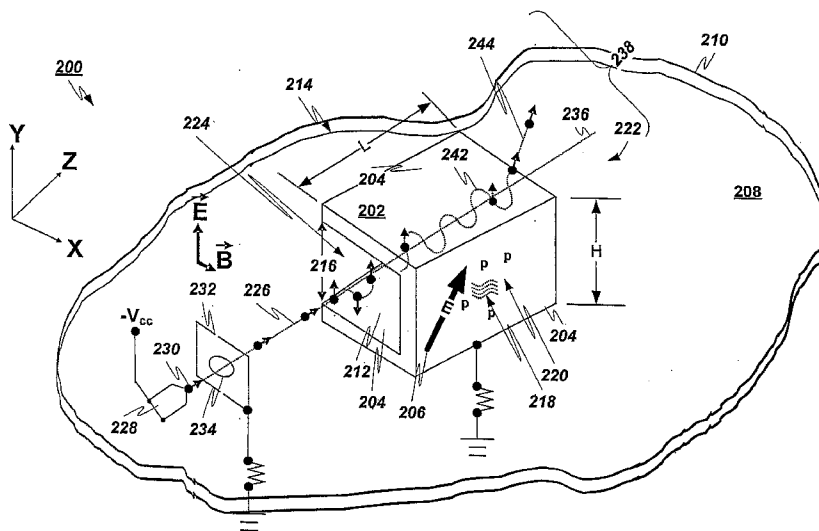


Fig. 2(a)

(57) Abstract: A device couples energy from an electromagnetic wave to charged particles in a beam. The device includes a micro-resonant structure and a cathode for providing electrons along a path. The micro-resonant structure, on receiving the electromagnetic wave, generates a varying field in a space including a portion of the path. Electrons are deflected or angularly modulated to a second path.

WO 2007/064358 A3

INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - H10S 3/08 (2007.01)
 USPC - 372/102
 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(8) - H10S 3/00, 3/08, 3/09, 3/10, 3/091, 3/092 (2007.01).
 USPC - 372/09, 26, 69, 70, 73, 74, 92, 98, 102.

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 practicable, search terms used)
 MicroPatent, IP.com, DialogPro

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 5,790,585 A (WALSH) 04 August 1998 (04.08.1998), see whole document.	1-7, 11-48 -----
Y		8-10
Y	US 5,668,368 A (SAKAI et al) 16 September 1997 (16.09.1997), see whole document.	8-10

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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