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[Continued on next page]

(54) Title: PRESSURIZED WATER REACTOR FUEL ASSEMBLY GRID

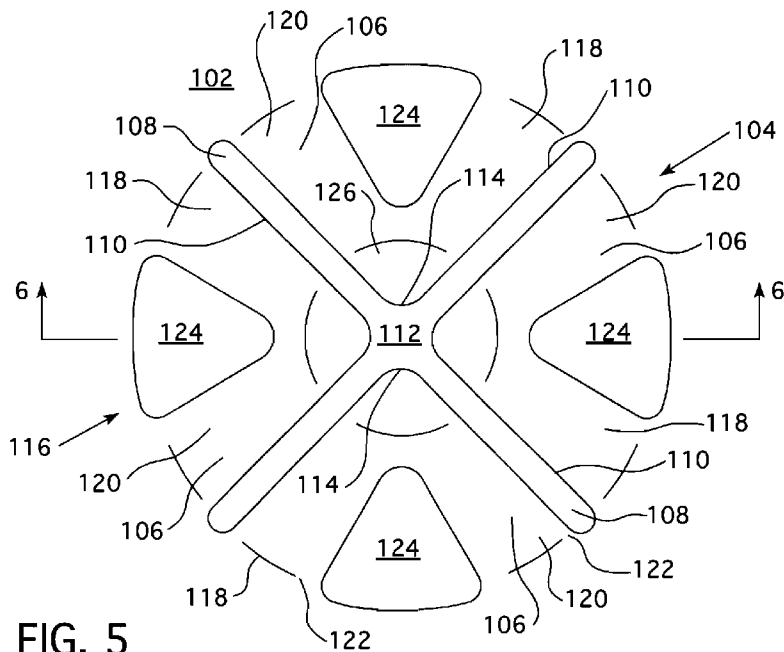


FIG. 5

(57) Abstract: A nuclear pressurized water reactor fuel assembly grid that has a plurality of spring-like, resilient, cantilevered members that extend, substantially adjacent each other, from a wall of a grid cell that supports the fuel rods, into the support cell, with a distal end of each member being compressed by the fuel rod passing through the cell so as to exert a lateral force on the fuel rod. The plurality of cantilevered members replace conventional dimples employed in fuel assembly grid support cells.



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**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(8) - G21C 3/356 (2015.01)  
 CPC - G21C 3/356  
 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): G21C 3/356 (2015.01)  
 CPC: G21C 3/356

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 USPC: 376/442 (search term limited)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 PatBase (All), Google (Web, Patents, Scholar)  
 Search terms: Cantilev\*, spring\*, rate\*, abut, westinghouse, sparch, variab\*, adjust\*, nuclear, reactor, power, fuel assembly

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,426,355 A (BURGER) 17 January 1984 (17.01.1984), entire document, especially Fig 1 and col 3, lns 4-17 and 29-51	1-15
Y	US 5,444,748 A (BEUCHEL et al) 22 August 1995 (22.08.1995), entire document, especially Fig 3, col 1, lns 58-63, col 2, ln 67 to col 3, ln 12	1-15
Y	US 5,243,635 A (BRYAN) 07 September 1993 (07.09.1993), entire document, especially Fig 3, col 1, lns 49-54, col 2, lns 60-65	6, 11

Further documents are listed in the continuation of Box C.

* 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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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"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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