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[Continued on next page]

(54) Title: ELECTROMAGNETIC FLOW REGULATOR, SYSTEM, AND METHODS FOR REGULATING FLOW OF AN ELECTRICALLY CONDUCTIVE FLUID

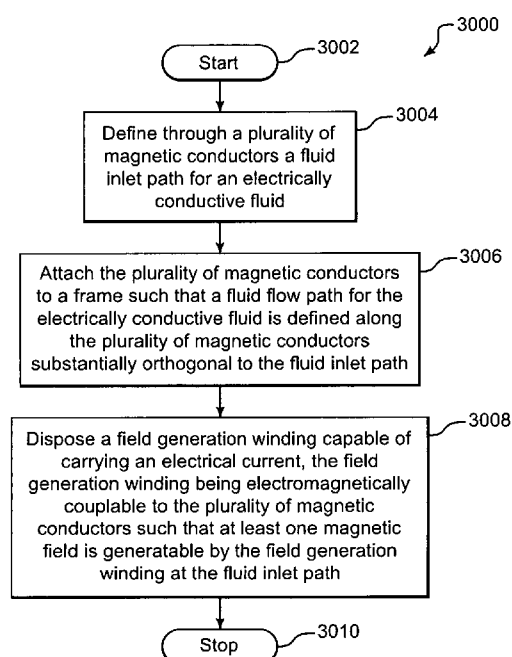


FIG.3A

(57) Abstract: Disclosed embodiments include electromagnetic flow regulators for regulating flow of an electrically conductive fluid, systems for regulating flow of an electrically conductive fluid, methods of regulating flow of an electrically conductive fluid, nuclear fission reactors, systems for regulating flow of an electrically conductive reactor coolant, and methods of regulating flow of an electrically conductive reactor coolant in a nuclear fission reactor.



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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - F15B 21/06 (2012.01)

USPC - 137/807

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)

USPC: 137/807

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 137/1, 2, 13, 803, 804, 807, 825, 827, 833, 909; 251/129.01; 376/207, 210; 417/48, 50; 976/DIG136, DIG246 (keyword limited, see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB, USPT, EPAB, JPAB), Google Scholar, Thomson Innovation. Search terms used: Magnet, magnetic, electro, electromagnet, electromagnetic, control, controller, controlling, controlled, regulate, regulating, regulator, regulated, valve, flow, flowing, electric, electrical, conductive, conductivity, fluid, liquid, medium, molten, metal, met

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,044,858 A (NATHENSON) 04 April 2000 (04.04.2000) entire document, especially: Fig 4, 8, col 9, ln 33 to col 10, ln 33, col 11, ln 13-28	1-21
Y	US 6,315, 029 B1 (CHO et al.) 13 November 2001 (13.11.2001) Fig 4b, col 5, ln 8-18	1-21
Y	US 5,137,045 A (GERBER et al.) 11 August 1992 (11.08.1992) col 11, ln 34-58	5, 16
A	US 4,225,387 A (GATLEY) 30 September 1980 (30.09.1980) entire document	1-21

☐ Further documents are listed in the continuation of Box C.


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