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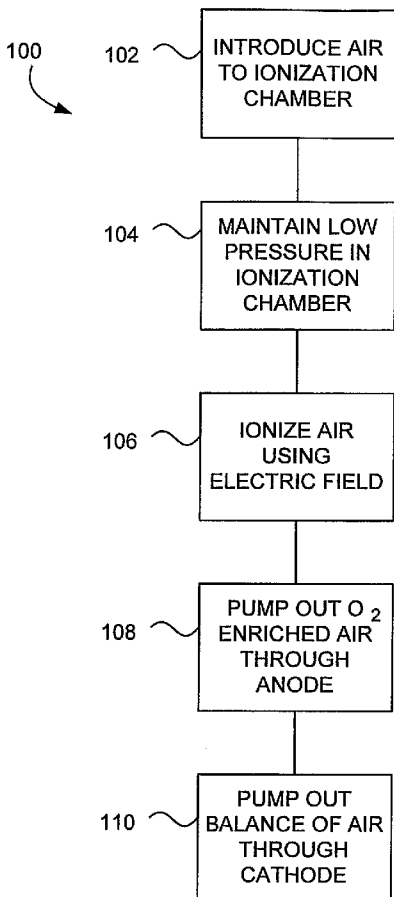
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(54) Title: MULTI-SECTIONAL SYSTEM FOR CONTINUOUS GAS SEPARATION



(57) Abstract: A system for separating a gaseous constituent from a gaseous mixture includes a substantially sealed passageway extending between a first exhaust port and a second exhaust port. An entry port for a gas mixture to be separated opens into the passageway. At least three gas-permeable electrodes are disposed across the passageway at intervals. The electrodes divide the passageway into multiple sections. Each section is bounded at opposing ends by an electrode, and the sections are disposed in serial fashion through at least a portion of the passageway. A high-voltage static electric field may be applied to opposing electrodes of one or more sections. When voltage is so applied, gas may be drawn through a static electric field in one or more sections, by applying suction to the exhaust ports.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **B01J 19/08(2006.01);B03C 3/36(2006.01)**

 USPC: 422/186.04;96/66,70
 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. : 422/186.04;96/66,70

 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)
 WEST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 63-158,114A (SUMITOMO HEAVY IND LTD) 01 July 1988, see abstract and Figs. 1, 3 and 5.	1-3, 5-7 and 13-15
X,P	US 6,773,489 B2 (DUNN) 10 August 2004, see abstract and Figs. 2-4.	1-3, 5-7, 13-15, 17 and 18
X,P	WO 03/082,443 A1 (ITO et al.) 09 October 2003, see abstract and Figs. 5, 6 ¹⁾ and 11.	1-3, 5, 6, 12 and 17-19
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Y,P	Figs. 9 and 11.	4, 8, 10, 11, 16 and 20
Y	US 6,110,242 A (YOUNG) 29 August 2000, Fig. 2.	8-10
X,P	US 2004/0065306 A1 (Parsa) 08 April 2004, claims 1-5, 7, 8 and 16-21.	1, 2, 4, 5, 8-12, 18 and 19

Further documents are listed in the continuation of Box C. See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means		
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