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- (71) Applicant (for all designated States except US): RENS-
SELAER POLYTECHNIC INSTITUTE [US/US]; 110
8th Street, Troy, NY 12190 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CHOW, Joe,
H. [US/US]; 58 Heritage Parkway, Scotia, NY 12302
(US). WEI, Xuan [CN/US]; 2849 Lexington Avenue, N.
Apt.E, Roseville, MN 55113 (US). FARDANESH, Bruce
[US/US]; 5 Corn Mill Ct., Upper Saddle River, NJ 07458
(US). EDRIS, Abdel-Aty [US/US]; 1316 Miette Way,
Sunnyvale, CA 94087 (US).
- (74) Agents: GOTTLIEB, Kirk, A. et al.; Morgan Lewis &
Bockius LLP, 2 Palo Alto Square, 3000 El Camino Real,
Suite 700, Palo Alto, CA 94306 (US).

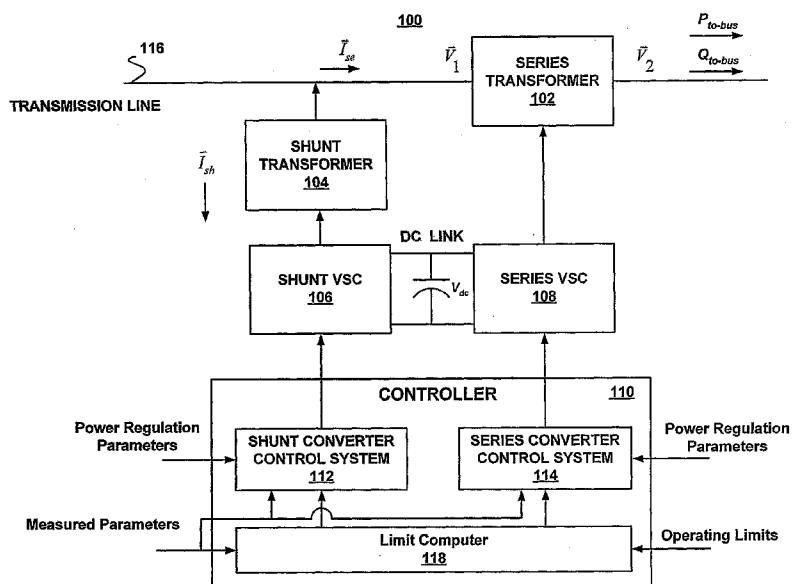
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(54) Title: POWER FLOW CONTROLLER RESPONSIVE TO POWER CIRCULATION DEMAND FOR OPTIMIZING POWER TRANSFER



(57) Abstract: A power flow controller responsive to power circulation demand for optimizing power transfer is disclosed. When a power flow controller operates at its rated capacity, it can no longer regulate from-bus voltage set-points, line power flow set-points, or both. In such cases, the power flow controller switches to power circulation set-point control without exceeding the rated capacities of the voltage-sourced converters in the power flow controller. Power-voltage (PV) curves associated with voltage stability analysis for maximizing power transfer can be generated and stored for use with a power flow controller operating in automatic power flow control mode.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,459,175 B1 (Potega) 01 October 2002, see entire document.	1-7,14-23
A	US 2003/0085621 A1 ((Potega) 08 May 2003.	1-23
A	US 5,768,117 A (Takahashi et al.) 16 June 1998.	1-23

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

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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer BRIAN JOHNSON <i>James R. Matthews</i> Telephone No. (571) 272-3595