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(71) **Applicant** (*for all designated States except US*): **POWER CONTROL TECHNOLOGIES, INC.** [US/US]; 42 Butternut Court, Wilmington, DE 19810 (US).

(72) **Inventor; and**

(75) **Inventor/Applicant** (*for US only*): **IONESCU, Adrian, F.** [US/US]; 60 Alexandru Vaida Voevod Street, Apt. 19, R-Cluj-Napoca 3400 (RO).

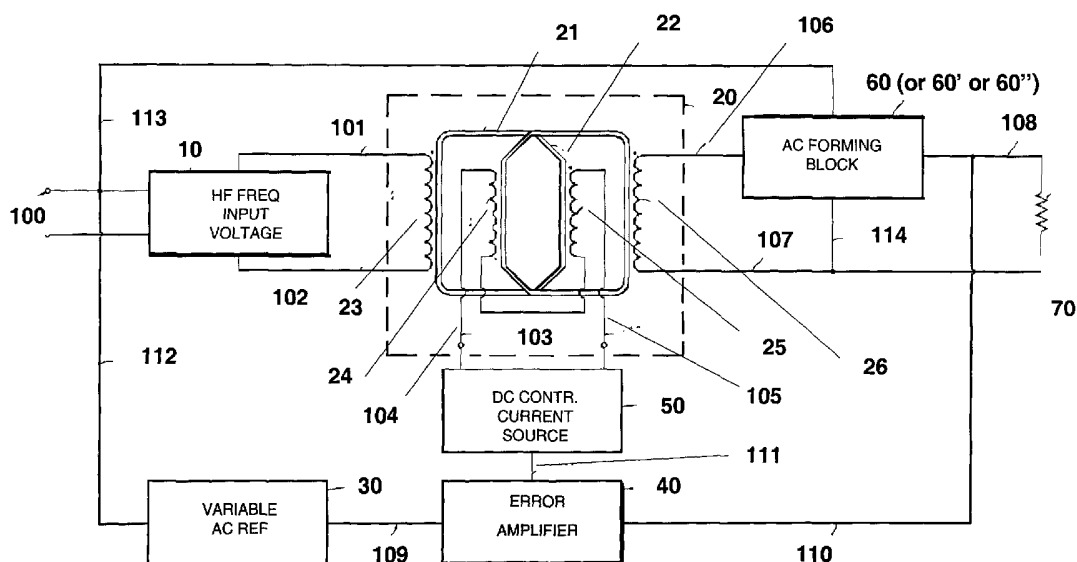
(74) **Agents:** **HUME, Larry, J.** et al.; Connolly Bove Lodge & Hutz LLP, 1990 M Street N.W., Suite 800, Washington, DC 20036 (US).

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Declarations under Rule 4.17:
 — *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*

[Continued on next page]

(54) Title: AC VOLTAGE CONTROLLER



(57) Abstract: An AC voltage controller for frequencies of 50 Hz or 60 Hz controls the current through a load from a high frequency AC source 10 to a variable energy transfer transformer 20 including a main magnetic core 21, a saturable magnetic shunt core 21, a saturable magnetic shunt core 22, primary 23, secondary 26 and two controlling windings 24 and 25. DC current flowing through the two controlling windings 24 and 25 may saturate the magnetic shunt 22, therefore decreasing the amount of AC high frequency magnetic flux generated by the primary 23 which is diverted from the secondary 26 by the magnetic shunt 22. The secondary voltage is dependent on the amount of magnetic flux and on its rate of change (or $d\Phi/dt$). The result of saturating the magnetic shunt is therefore an increase of the output voltage measured across the secondary for a given load 70.



— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H02M 3/335 US CL : 363/21 According to International Patent Classification (IPC) or to both national classification and IPC | | |
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| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 363/21, 95, 131 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) STN, EAST | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | US 6,122, 180 [SEO et al.]19 September 2000 [19.09.2000], the whole disclosure | |
| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex. | | |
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