Title: METHOD FOR STARTING A VOLTAGE-MODE SWITCHING POWER SUPPLY INTO A BIASED LOAD

Abstract: A method for starting up a voltage-mode switching power supply into a biased load includes computing a ratio of the load voltage at the biased load to an input voltage of the switching power supply, generating a first signal indicative of the duty cycle of the voltage -mode switching power supply, comparing the first signal indicative of the duty cycle to the ratio, and turning on an output stage of the voltage-mode switching power supply only when the first signal indicative of the duty cycle is equal to the ratio. In this manner, the voltage-mode switching power supply can be started up to supply power to a biased load without dragging down the load voltage of the biased load.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC:  G05F 1/40(2006.01),1/618(2006.01)
   USPC: 323/288
   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.: 323/288, 284, 285, 299, 901
   Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
   NONE
   Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
   Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 6,370,045 B1 (LURKIN) 09 April 2002 (03.04.2002) see entire document</td>
<td>1-11</td>
</tr>
</tbody>
</table>

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

* Special categories of cited documents:
  "A" document defining the general state of the art which is not considered to be of particular relevance
  "E" earlier application or patent published on or after the international filing date
  "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)
  "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
  "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
  "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
  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
  "Z" document member of the same patent family

Date of the actual completion of the international search 31 August 2007 (31.08.2007)
Date of mailing of the international search report 21 SEP 2007

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
Jose Dees
Telephone No. 571-272-1569

Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 3:
EAST; US-PGPUB; USPAT; ((error or op or operational or differential) adj (amp or amplifier)) or comparator).clm., ((duty adj cycle) or
pwm or (pulse adj width adj modulator$)).clm., (ratio).clm., (switching adj ((power adj supply or regulat$)).clm.