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(54) **Title:** SELECTIVE INPUT CONTROL FOR IMPROVING SWITCHED AC/DC POWER SUPPLIES

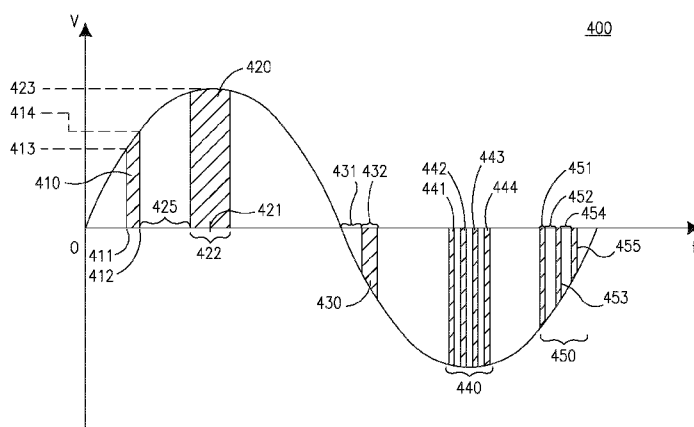


FIG. 4A

(57) **Abstract:** A power converter (200) and a method of operation thereof is disclosed including an input (210), an output (240), a sensor unit (250), a switched power converter (220), and a processor module. The power converter may convert an input power into an output power. The power converter may sense real-time measurements of the input power and the output power to determine a real-time calculated efficiency. The power converter may chop the input power into sized and positioned portions of the input power based on a plurality of determined operating parameters. The power converter may determine the operating parameters based on the real-time calculated efficiency and on a plurality of other operating factors/conditions.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
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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)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/199016 A1 (RINALDI VITO [CA]) 18 August 2011 (2011-08-18) abstract; figures 3-6,8,11 paragraphs [0021], [0025], [0027], [0028], [0029], [0061], [0062], [0070] - [0072]	1-9, 11-19
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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