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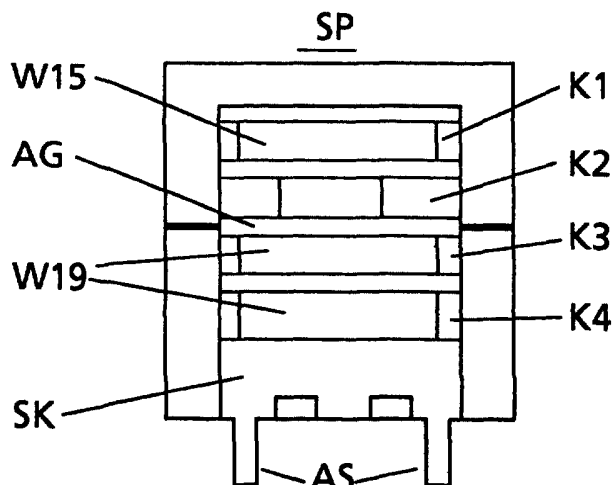
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(54) Title: POWER FACTOR CORRECTION CIRCUIT WITH A COIL



(57) Abstract: The switched-mode power supply according to the invention has a power factor correction circuit, which operates on the principle of a current pump and has a first coil (L15) for damping voltage spikes, as well as a second coil (L19) for power factor correction. The two inductances (L15, L19) are in this case connected in series and are arranged on a coil former (SK) and on a common core (CR). In one preferred exemplary embodiment, an E/E ferrite core is used as the core (CR), and a coil former with chambers is used as the coil former (SK), with the windings (W15, W19) of the two inductances (L15, L19) being arranged in different chambers (K1, K3, K4). An empty chamber (K2), which is located in the region of the air gap (AG) in the core (CR), is advantageously arranged between the two inductances. This partially decouples the two inductances by means of the air gap, so that the damping response of the first inductance (L15) is better.

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# INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H02M1/00				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) IPC 7 H02M				
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 practical, search terms used) EPO-Internal, WPI Data, PAJ				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
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<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</td> <td style="width: 50%; border: none;"><input checked="" type="checkbox"/> Patent family members are listed in annex.</td> </tr> </table>			<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.	<input checked="" type="checkbox"/> Patent family members are listed in annex.
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  <div style="text-align: center; font-size: 1.2em;">Lund, M</div>		

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