Abstract: A wire-less inductive device and methods of manufacturing and use are disclosed. In one embodiment, the inductive device comprises a plurality of through-hole vias which act to replace windings disposed around a magnetically permeable core. In another embodiment, the inductive device comprises a plurality of connection elements disposed or formed within channels which act as windings disposed around a magnetically permeable core. In a second aspect of the invention, a method of manufacturing the aforementioned inductive devices is disclosed. In a third aspect of the invention, an electronics assembly and circuit comprising the wire-less inductive devices are disclosed.
Published: (88) Date of publication of the international search report:
14 August 2008
A. CLASSIFICATION OF SUBJECT MATTER

<table>
<thead>
<tr>
<th>IPC(8)</th>
<th>USPC</th>
<th>Classification</th>
</tr>
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<td>336/200</td>
<td>Halpdesk</td>
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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)

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<td>Halpdesk</td>
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</tbody>
</table>

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim</th>
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<td>US 5,038,104 A (WKSWO, JR et al) 06 August 1991 (06 08 1991) entire document</td>
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D. Further documents are listed in the continuation of Box C

- 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 but published on or after the international filing date
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- "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

& document member of the same patent family

Date of the actual completion of the international search
25 March 2008

Date of mailing of the international search report
2 JUN 2008

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