Abstract: Described is a system and a method for optimizing power consumption in a wireless device. The system may include a first computing device which includes a first wireless transducer and a second computing device which includes a second wireless transducer and a power adjusting arrangement. The second transducer wirelessly transmits to the first device first data at a first transmitting power and second data at a second transmitting power. The power adjusting arrangement determines the second transmitting power as a function of the first transmitting power and receipt data; the receipt data corresponding to one of (i) an acknowledgment from the first device of reception of the first data and a signal strength of the received first data and (ii) a lack of acknowledgment from the first device of reception of the first data.
### A. CLASSIFICATION OF SUBJECT MATTER

**IPC(8):** H04B 007/00

**US CL.:** 455/522,069,3.05; 340/5.61

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)

**US CL.:** 455/522,069,3.05; 340/5.61

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)

Micropatent, DialogPro

### 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>X</td>
<td>US 2002/0090966 A1 (HANSEN et al) 11 July 2002 (11.07.2002) Claims 8, 36, 21, 33 Figure 1, Paragraph 0003.</td>
<td>1-3, 5, 15-17, 24, 25, 27</td>
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<td>4, 10, 11, 18, 20, 26</td>
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<td>4, 16 and 26</td>
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<tr>
<td>A</td>
<td>US 6,925,286 B1 (KRAIEM et al) 02 August 2005 (02.08.2005) Entire Document</td>
<td></td>
</tr>
</tbody>
</table>

### D. Further documents are listed in the continuation of Box C.

**T** 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

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**Date of actual completion of the international search**

25 November 2005 (22.11.2005)

**Date of mailing of the international search report**

30 JAN 2006

**Name and mailing address of the ISA/US**

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