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**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

**Published:**

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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



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(54) Title: IDENTIFICATION BASED OPERATIONAL MODIFICATION OF A PORTABLE ELECTRONIC DEVICE

(57) Abstract: Identification based operational modification of a portable electronic device includes detecting the presence of an employee identification badge, authenticating the identification badge as an eligible identification badge based at least in part upon data associated with the identification badge that is individualized to at least the employee and/or employer, and modifying one or more operating characteristics of the portable electronic device resulting in an identification badge authenticated mode of operation for the portable electronic device based upon successful authentication of the identification badge.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US03/31276

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : G08B 13/14  
 US CL : 340/572.1, 572.4, 10.42

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. : 340/572.1, 572.4, 10.42

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)  
 East

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,008,727A (WANT ET AL.) 28 December 1999 (28.12.1999), column 12, lines 2-3, column 9, lines 47-49.	1-20, 33-37
A	US 6,087,952A (PRABHAKARAN) 11 July 2000 (11.07.2000), column 13, lines 58-67, column 14, lines 1-6.	21-26
Y	US 6,356,764 B1 (OVARO ET AL.) 12 March 2002 (12.03.2002), column 6, lines 9-16.	27-32

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	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

Date of mailing of the international search report

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Name and mailing address of the ISA/US  
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**BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING**

Group I, claim(s) 1-20, 33-37, drawn to authentication.

Group II, claim(s) 21-26, drawn to housing/support for transceiver.

Group III, claim(s) 27-32, drawn to interface attached device.

The inventions listed as Groups I, II, and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is drawn to authentication; Group II is drawn to housing/support for transceiver; Group III is drawn to interface attached device.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/31276

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claim Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claim Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claim Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:  
Please See Continuation Sheet

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

  

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.