

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
3 January 2002 (03.01.2002)

PCT

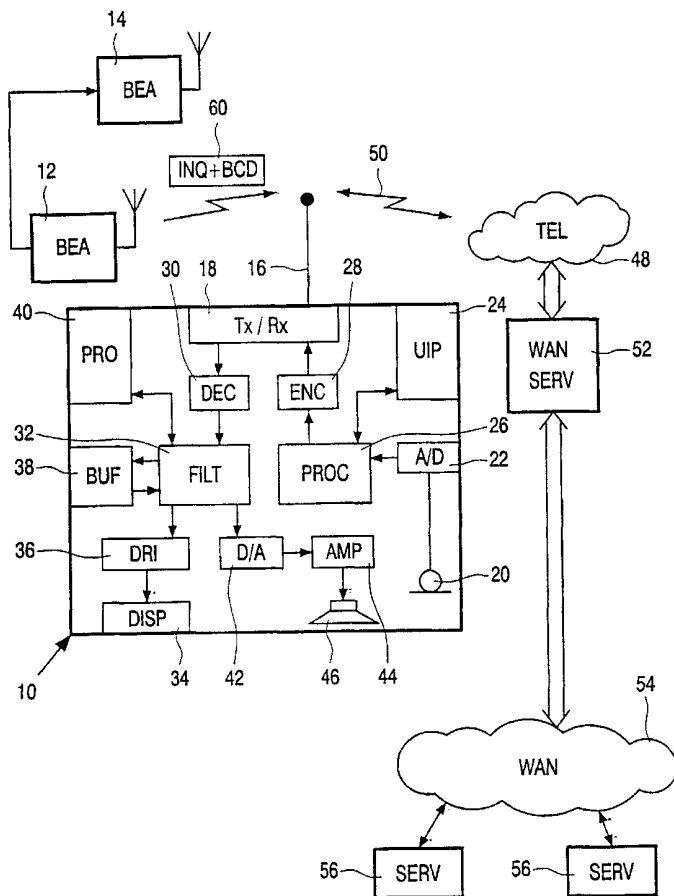
(10) International Publication Number  
**WO 02/01815 A3**

- (51) International Patent Classification<sup>7</sup>: **H04L 12/56**, 29/06, 12/18
- (72) Inventors: **BLAKE, Robert, L.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **DAVIES, Robert, J.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **FULTON, Paul, M.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (21) International Application Number: PCT/EP01/06949
- (74) Agent: **WHITE, Andrew, G.**; Internationaal Octrooibureau B.V., Prof Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (22) International Filing Date: 18 June 2001 (18.06.2001)
- (25) Filing Language: English
- (81) Designated States (*national*): CN, JP, KR.
- (26) Publication Language: English
- (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- (30) Priority Data:  
0015452.6 26 June 2000 (26.06.2000) GB  
0020101.2 15 August 2000 (15.08.2000) GB
- (71) Applicant: **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (88) Date of publication of the international search report: 10 May 2002

Published:  
— with international search report

[Continued on next page]

(54) Title: LOCAL DATA DELIVERY THROUGH BEACONS



(57) Abstract: A communications system comprises first (12) and second (14) beacon devices capable of wireless message transmission and at least one portable device (10) capable of receiving such message transmissions. The first beacon is arranged to broadcast a series of inquiry messages (INQ) according to a first communications protocol, such as Bluetooth. The portable device (10) detects such inquiry messages and replies with an identifier for the portable device. The first beacon (12) then transmits the received identifier to the second beacon (14), with the second beacon (14) and portable device (10) configured to perform a service interaction when triggered by the second beacon receiving the portable device identifier.

WO 02/01815 A3



---

*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.*

INTERNATIONAL SEARCH REPORT

national Application No  
PCT/EP 01/06949

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04L12/56 H04L29/06 H04L12/18

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)  
IPC 7 H04L H04Q

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, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ALBRECHT M ET AL: "IP services over Bluetooth: Leading the Way to a New Mobility" PROCEEDINGS 24TH CONFERENCE ON LOCAL COMPUTER NETWORKS. LCN'99, LOWELL, MA, USA, 18-20 OCT. 1999, pages 2-11, XP001001314 IEEE Comput. Soc., USA ISBN: 0-7695-0309-8 page 7, right-hand column, line 11 -page 11, left-hand column, line 8	1,11,12, 17
A	US 5 960 344 A (MAHANY RONALD L) 28 September 1999 (1999-09-28) abstract column 2, line 11 - line 29 column 4, line 35 - line 64 column 8, line 34 -column 9, line 65	1,11,12, 17

Further documents are listed in the continuation of box C.  Patent family members are listed in annex.

° 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 document but published on or after the international filing date  
\*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)  
\*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  20 December 2001	Date of mailing of the international search report  03/01/2002
---	--

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  Behringer, L.V.
--	---

## INTERNATIONAL SEARCH REPORT

national Application No  
PCT/EP 01/06949

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HAARTSEN J: "BLUETOOTH - THE UNIVERSAL RADIO INTERFACE FOR AD HOC, WIRELESS CONNECTIVITY" ERICSSON REVIEW, STOCKHOLM, SE, no. 3, 1998, pages 110-117, XP000783249 ISSN: 0014-0171 -----	
X,P	WO 01 20940 A (NOKIA CORPORATION) 22 March 2001 (2001-03-22)  page 9, line 16 -page 11, line 8 page 12, line 19 -page 13, line 19 -----	1,2, 10-12, 14-17

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

national Application No

PCT/EP 01/06949

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5960344	A	28-09-1999	US 5546397 A	13-08-1996
			AU 1374795 A	10-07-1995
			WO 9517724 A1	29-06-1995
-----				
WO 0120940	A	22-03-2001	AU 6860800 A	17-04-2001
			WO 0120940 A1	22-03-2001
-----				