



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/IB97/01272 (22) International Filing Date: 13 October 1997 (13.10.97) (30) Priority Data: 08/735,276 16 October 1996 (16.10.96) US (71) Applicant: PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 7, Kista, S-164 85 Stockholm (SE). (72) Inventor: MELNIK, George, A.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). (74) Agent: DEGUELLE, Wilhelmus, H., G.; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).</p>		<p>(81) Designated States: JP, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i> (88) Date of publication of the international search report: 9 July 1998 (09.07.98)</p>
<p>(54) Title: A METHOD FOR CONFIGURING AND ROUTING DATA WITHIN A WIRELESS MULTIHOP NETWORK AND A WIRELESS NETWORK FOR IMPLEMENTING THE SAME</p>		
<p>(57) Abstract</p> <p>A method for configuring a wireless data packet network comprising a control node and multiple individual nodes includes the following steps: organizing the network into multiple bands B<sub>i</sub>; each band including individual nodes located <i>i</i> hops away from the control node; assigning a logical address to each individual node. A routing logical address is added to every data packet and each individual node compares its own logical address to the routing address of a received packet. In dependence on the result of the comparison, the packet is discarded, re-transmitted or processed in the node. The network is preferably a packet-hopping wireless network in which data packets are transferred from node to node over a common RF channel.</p>		

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 97/01272

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC6: H04L 12/28, H04L 12/56  
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)

IPC6: H04L

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

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EDOC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5142694 A (BRETT A. JACKSON ET AL), 25 August 1992 (25.08.92), column 1, line 65 - column 2, line 15; column 2, line 63 - column 7, line 17; column 8, line 5 - line 58  --	1-10
A	FR 2715787 A1 (ZOGHAIB HUSSEIN), 4 August 1995 (04.08.95), page 5, line 30 - page 6, line 24  -- -----	1-10

Further documents are listed in the continuation of Box C.       See patent family annex.

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Date of the actual completion of the international search  <b>16 April 1998</b>	Date of mailing of the international search report  <b>20 -04- 1998</b>
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

02/04/98

International application No.

PCT/IB 97/01272

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5142694 A	25/08/92	NONE	
FR 2715787 A1	04/08/95	AU 1582295 A EP 0742977 A WO 9520849 A	15/08/95 20/11/96 03/08/95