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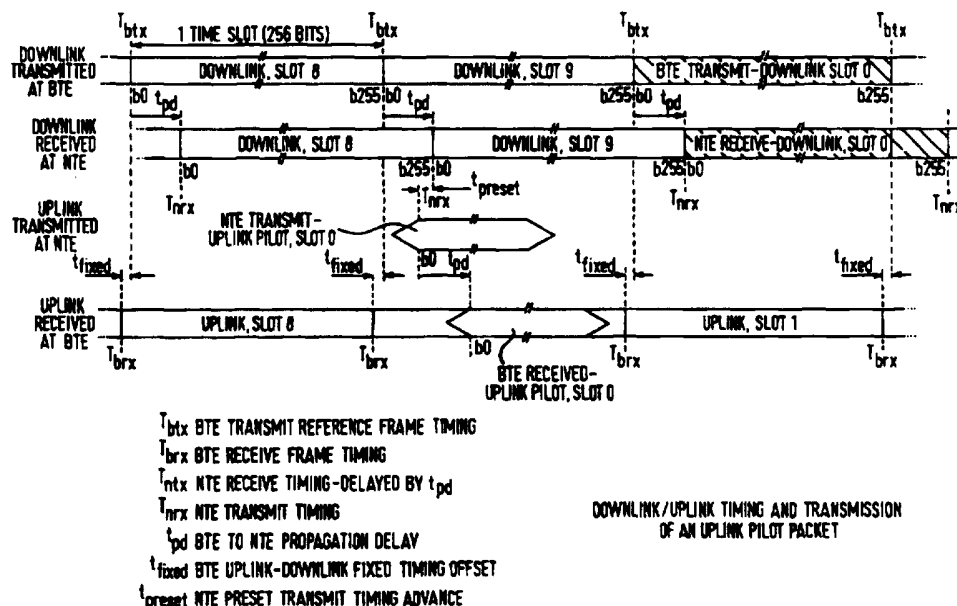
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*With international search report.**Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.*

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(54) Title: TRANSMISSION TIMING CONTROL IN DIGITAL RADIO TELEPHONY



## (57) Abstract

In time domain multiplex/time domain multiple access communications between a base station and subscriber unit, the base station sends a timing reference signal. A subscriber unit responds with a data packet (a) sufficiently short to ensure correct reception by the base irrespective of transmission time. The base determines the transmission time taken and instructs the subscriber unit to advance its timings so that longer data packets (b) can be sent so as to be received when expected. The timing adjustment includes both a fixed present component dependent on approximate separation of base station and subscriber unit, and a second component from measurement of the transmission time taken.

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 95/02135

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 H04B7/26 H04J3/06

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 6 H04Q H04B H04J

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 007 no. 115 (E-176), 19 May 1983 & JP,A,58 036034 (NIPPON DENSHIN DENWA KOSHA) 2 March 1983, see abstract	1,2,4,9, 12,15,18
A	PHILIPS TELECOMMUNICATION AND DATA SYSTEMS REVIEW, vol. 47, no. 2, June 1989 HILVERSUM NL, pages 1-19, XP 000054481 M. DE COUESNONGLE ET AL. 'IRT 2000: System for telephone and data at remote sites' see page 7, line 6 - page 8, line 4	

☐ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

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