

Title (en)  
BIT SYNCHRONIZATION METHOD FOR A DIGITAL RADIOTELEPHONE SYSTEM

Publication  
**EP 0273289 A3 19891018 (DE)**

Application  
**EP 87118501 A 19871214**

Priority  
US 94819986 A 19861231

Abstract (en)  
[origin: EP0273289A2] A method and means for maintaining continuous bit synchronization of data transmitted from a remote unit (114) through a base unit (126) to a landline unit (136) is disclosed. An input data stream (222) at a first bit rate, such as digitized or encrypted speech, is interleaved in a formatter (230) with a plurality of signalling words (234), and transmitted over an RF channel at a second bit rate. The base site decoder (250) recovers the clock of the received data, a reformatter (260) strips off the signalling word, and an elastic buffer (270) modifies the bit rate of the received data and adjusts the recovered clock rate to provide an output data stream (272) which is in bit synchronization with the input data stream and within a predetermined modem specification. The encrypted data is then sent over landlines (132) to a decryption unit (280) which requires bit synchronization.

IPC 1-7  
**H04L 9/00**; **H04K 1/00**

IPC 8 full level  
**H04K 1/00** (2006.01); **H04L 9/12** (2006.01)

CPC (source: EP US)  
**H04K 1/00** (2013.01 - EP US); **H04L 9/0656** (2013.01 - EP US); **H04L 9/12** (2013.01 - EP US); **H04L 2209/80** (2013.01 - EP US)

Citation (search report)

- [YD] US 4434323 A 19840228 - LEVINE STEPHEN N [US], et al
- [Y] GB 2050119 A 19801231 - RAYTHEON CO
- [A] GB 2126844 A 19840328 - RACAL RES LTD
- [A] EP 0165619 A2 19851227 - NEC CORP [JP]
- [A] US 4596026 A 19860617 - CEASE RICHARD G [US], et al
- [A] PROCEEDINGS OF MELECON '85, Madrid, 8th-10th October 1985, vol. 2, pages 427-430, IEEE, New York, US; M. AKTEKIN: "A simulation study of a digital packet speech communication link"

Cited by  
US5001756A; EP0446194A1; AU643771B2; TR25774A; DE4026698A1; FR2652468A1; DE4026698C2; WO9114315A1; WO9104620A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0273289 A2 19880706**; **EP 0273289 A3 19891018**; US 4803726 A 19890207

DOCDB simple family (application)  
**EP 87118501 A 19871214**; US 94819986 A 19861231