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Title:	**EP0936749A1: Récepteur adaptatif de signaux pour système de communications à accès multiples par répartition à codes**[German][English] [Derwent Title]
Country:	**EP** European Patent Office (EPO)
Kind:	**A1** Publ. of Application with search report [i]
Inventor:	**De Gaudenzi, Riccardo**; **Giannetti, Fillippo**; **Romero Garcia, Javier**; **Luise, Marco**; **Fanucci, Luca**; **Letta, Edoardo**;
Assignee:	**AGENCE SPATIALE EUROPEENNE** News, Profiles, Stocks and More about this company
Published / Filed:	**1999-08-18** / 1999-02-05
Application Number:	**EP1999000870023**
IPC Code:	Advanced: **H04B 1/707**; H04J 11/00; Core: more... IPC-7: **H04B 1/707**;
ECLA Code:	**H04B1/707**;
Priority Number:	1998-02-11 **FR1998000001604**

High Resolution

Low Resolution

42 pages

Abstract: An adaptive signal receiver comprising at least one blind detection unit arranged to be robust to asynchronous multiple access interference (MAI). The useful signal is detected using a user signature sequence comprised of a fixed term and a complex adaptive part having a length that extends over a number of samples within a defined observation window. Provision is made for updating automatically and periodically the complex adaptive part of the signature sequence.

INPADOC Legal Status:	Show legal status actions **Buy Now:** Family Legal Status Report
Designated Country:	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Family:	Show 6 known family members
First Claim: Show all claims	1. An adaptive receiver for CDMA signals, comprising a blind adaptive detector for detecting symbols in an incoming data stream using a user signature sequence, wherein said user signature sequence is comprised of a fixed term C_1 and a complex adaptive part $X_1(r)$ having a predetermined length that extends over a number of samples of the incoming data stream, said complex adaptive part being updated automatically and periodically after every interval spanning over one symbol or a plurality of symbols.
Description Expand description	**+ Field of the invention** The present invention relates to the field of Code Division Multiple Access (CDMA) communications with direct sequence/spread spectrum (DS/SS) modulated signals. It is concerned in particular with a novel adaptive signal receiver for CDMA communication systems. **+ Background of the invention** **+ Summary of the Invention** **+ Brief Description of the Drawings** **+ Description of Exemplary Embodiments of the Invention**

+ **The CDMA Signal Format**
+ **The Select and Add Architecture**
+ **Error signal truncation effects**
+ **The Linear Combiner Architecture**
+ **EC-BAID Architectures Summary**
+ **Baseline Architecture**
+ **"Overlap and Add" Architecture**
+ **"Select and Add" Architecture**
+ **The Linear Combiner Architecture**
+ **Fading performance**
+ **Satellite Path Diversity**
+ **EC-BAID Application to Multi-rate CDMA**
+ **EC-BAID Applicability to Quasi-Random CDMA**
+ **EC-BAID Applicability to Frequency Selective Channels**

Forward References:

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Buy PDF	Patent	Pub.Date	Inventor	Assignee	Title
📄	US7400692	2008-07-15	Reznik; Alexander	InterDigital Technology Corporation	Telescoping window based equalization
📄	US7376175	2008-05-20	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communications systems and methods for cache enabled multiple processor based multiple user detection
📄	US7327780	2008-02-05	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communications systems and methods for multiple operating system multiple user detection
📄	US7260076	2007-08-21	Kowalewski; Frank	Robert Bosch GmbH	Method and device for transmitting data
📄	US7248623	2007-07-24	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communications systems and methods for short-code multiple user detection
📄	US7218668	2007-05-15	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communications systems and methods for virtual user based multiple user detection utilizing vector processor generated mapped cross-correlation matrices
📄	US7210062	2007-04-24	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communications systems and methods for nonvolatile storage of operating parameters for multiple processor based multiple user detection
📄	US7177344	2007-02-13	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communication systems and methods for long-code communications for regenerative multiple user detection involving implicit waveform subtraction
📄	US7164706	2007-01-16	Oates; John H.	Mercury Computer Systems, Inc.	Computational methods for use in a short-code spread-spectrum communications system
📄	US7139306	2006-11-21	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communication systems and methods for long-code communications for regenerative multiple user detection involving pre-maximal combination matched filter outputs
📄	US7110431	2006-09-19	Oates; John H.	Mercury Computer Systems, Inc.	Hardware and software for performing computations in a short-code spread-spectrum communications system
📄	US7110437	2006-09-19	Oates; John H.	Mercury Computer Systems, Inc.	Wireless communications systems and methods for direct memory access and buffering of digital signals for multiple user

					detection
US7110440	2006-09-19	Oates; John H.	Mercury Computer Systems, Inc.		Wireless communications systems and methods for multiple processor based multiple user detection
US7099374	2006-08-29	Oates; John H.	Mercury Computer Systems, Inc.		Wireless communication systems and methods for long-code communications for regenerative multiple user detection involving matched-filter outputs
US7065125	2006-06-20	Miller; Mark J.	Viasat, Inc.		Method and apparatus for multiple access over a communication channel
US6847688	2005-01-25	Molnar; Karl James	Ericsson Inc.		Automatic frequency control systems and methods for joint demodulation
US6810073	2004-10-26	Karlsson; Jonas	Telefonaktiebolaget LM Ericsson (publ)		Method and system for interference cancellation using multiple filter sets and normalized filter adaptation

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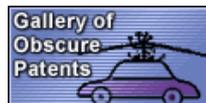
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