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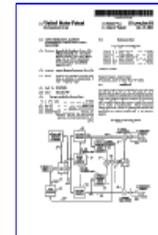
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Buy Now:  PDF | [File History](#) | [Other choices](#)Tools: [Citation Link](#) | Add to Work File:  View: [Expand Details](#) | [INPADOC](#) | Jump to:   [Email this to a friend](#)Title: **US6466566: Low complexity adaptive interference mitigating CDMA detector**[\[ Derwent Title \]](#)Country: **US** United States of AmericaInventor: **De Gaudenzi, Riccardo**; Leiden, Netherlands  
**Giannetti, Filippo**; Buti, Italy  
**Garcia, Javier Romero**; Leiden, Netherlands  
**Luise, Marco**; Livorno, Italy  
**Fanucci, Luca**; Montecatini Terme, Italy  
**Letta, Edoardo**; Pisa, ItalyAssignee: **Agence Spatiale Europeene**, Paris, France  
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(approx. 136)  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **2002-10-15** / 1999-02-10Application Number: **US1999000247898**IPC Code: Advanced: [H04B 1/10](#); [H04B 1/707](#); [H04B 7/005](#); [H04J 13/04](#);  
[H04J 11/00](#);  
Core: [H04J 13/02](#); more...  
IPC-7: [H04B 7/216](#);ECLA Code: **H04B1/707**;U.S. Class: [370/342](#); [375/144](#); [375/148](#);Field of Search: [370/252](#),203,204-9,320,335,342,441 [375/130](#),140-144,147-148,149,150,152,229,230-2Priority Number: 1998-02-11 [FR1998000001604](#)

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.

Attorney, Agent or Firm: **Lipsitz, Barry R. ;**Primary / Asst. Examiner: **Vincent, David**;INPADOC Legal Status: None **Buy Now:** [Family Legal Status Report](#)

Designated Country: DE ES FI GB IT SE

Family: [Show 6 known family members](#)First Claim: [Show all 10 claims](#)  
What is claimed is: 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.Background / Summary: [Show background / summary](#)[High Resolution](#)[Low Resolution](#)

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	<a href="#">US5905721</a>	1999-05	Liu et al.	Cwill Telecommunications, Inc.	<a href="#">Methods for channel estimation and signal detection of CDMA signals</a>
	<a href="#">US6047020</a>	2000-04	Hottinen	Nokia Telecommunications OY	<a href="#">Receiving method and a receiver</a>
	<a href="#">US6078573</a>	2000-06	Batalama et al.	Research Foundation of State University of New York	<a href="#">Circuitry and method for demodulating code division multiple access (CDMA) signals</a>
	<a href="#">US6219341</a>	2001-04	Varanasi	University Technology Corporation	<a href="#">Method for bandwidth efficient multiple access wireless communication</a>
	<a href="#">US6240099</a>	2001-05	Lim et al.	National University of Singapore	<a href="#">Multi-user code division multiple access receiver</a>

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None  
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