

FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. I-2-0108US08	SERIAL NO. UNKNOWN 12/901,616
	APPLICANT David K. Mesecher	
	FILING DATE HEREWITH	GROUP UNKNOWN 2611

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	3,662,268	05/1972	Gans et al.				
	4,736,460	04/1988	Rilling				
	4,901,307	02/1990	Gilhousen et al.				
	5,146,475	09/1992	Kubo				
	5,319,677	06/1994	Kim				
	5,331,666	07/1994	Dent				
	5,381,443	01/1995	Borth et al.				
	5,457,704	10/1995	Hoeher et al.				
	5,493,563	02/1996	Rozanski et al.				
	5,623,511	04/1997	Bar-David et al.				
	5,652,764	07/1997	Kanzaki et al.				
	5,673,294	09/1997	Namekata				
	5,680,419	10/1997	Bottomley				
	5,694,388	12/1997	Sawahashi et al.				
	5,757,791	05/1998	Kanterakis et al.				
	5,809,020	09/1998	Bruckert et al.				
	5,812,542	09/1998	Bruckert et al. <sup>1</sup>				
	5,822,380	10/1998	Bottomley				
	5,822,701	10/1998	Tomisato et al.				
	5,886,987	03/1999	Yoshida et al.				
	5,903,834	05/1999	Wallstedt et al.				
	5,933,424	08/1999	Muto				
	5,952,968	09/1999	McDowell				

<sup>1</sup> Corresponds to CN 1166727A

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760719-1

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,982,327	11/1999	Vook et al.			
	5,991,332	11/1999	Lomp et al.			
	6,009,074	12/1999	Kim et al.			
	6,026,130	02/2000	Rahmatullah et al.			
	6,044,120	03/2000	Bar-David et al.			
	6,067,324	05/2000	Harrison			
	6,069,884	05/2000	Hayashi et al. <sup>2</sup>			
	6,081,566	06/2000	Molnar et al.			
	6,108,517	08/2000	Arslan et al.			
	6,147,985	11/2000	Bar-David et al.			
	6,148,041	11/2000	Dent			
	6,154,443	11/2000	Huang et al.			
	6,160,801	12/2000	Uchida et al.			
	6,161,209	12/2000	Moher			
	6,215,762	04/2001	Dent			
	6,335,954	01/2002	Bottomley et al.			
	6,385,181	05/2002	Tsutsui et al.			
	6,434,366	08/2002	Harrison et al.			
	6,459,740	10/2002	Lo			
	6,470,047	10/2002	Kleinerman et al.			
	6,470,192	10/2002	Karlsson et al.			
	6,483,866	11/2002	Suzuki			
	6,484,285	11/2002	Dent			
	6,501,788	12/2002	Wang et al.			
	6,501,803	12/2002	Alamouti et al.			

2 Corresponds to JP 10-107768

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,556,634	04/2003	Dent			
	6,647,070	11/2003	Shalvi et al.			
	6,694,154	02/2004	Molnar et al.			
	6,697,441	02/2004	Bottomley et al.			
	6,731,700	05/2004	Yakhnich et al.			
	6,870,825	03/2005	Huang			
	2001/0030993	10/2001	Bottomely et al.			
	2002/003846	01/2002	Khayrallah et al.			
	2002/0122510	05/2002	Yakhnich et al.			
	2002/150187	10/2002	Chugg et al.			
	2002/154704	10/2002	Reshef			
	2002/0181430	12/2002	Thomas et al.			
	2003/0013468	01/2003	Khatri			
	2003/0053524	03/2003	Dent			
	2003/0058929	03/2003	Cox et al.			
	2003/0092456	05/2003	Dent			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	0 674 455	10/1994	EP				
	0 715 421	06/1996	EP				
	0 755 127	01/1997	EP				
	0 820 157	01/1998	EP				
	0 881 781	12/1998	EP				
	0 892 508	01/1999	EP				
	0 899 894	03/1999	EP				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2 280 575	02/1995	GB				
	H09-261204	10/1997	JP <sup>3</sup>			X**	
	H11-186991	07/1999	JP <sup>4</sup>			X**	
	94/01956	01/1994	WO				
	95/34140	12/1995	WO				
	96/11533	04/1996	WO				
	96/21295	07/1996	WO				
	97/13386	04/1997	WO				
	99/04537	01/1999	WO				
	99/12283	03/1999	WO				
	99/23767	05/1999	WO				
	99/52311	10/1999	WO				
	00/35159	06/2000	WO				
	00/44141	07/2000	WO				
	00/48330	08/2000	WO				
	00/69192	11/2000	WO				
	01/05088	01/2001	WO				
	01/28174	04/2001	WO				
	01/45289	06/2001	WO				
	02/09297	01/2002	WO				
	02/23787	03/2002	WO				
	02/065719	08/2002	WO				
	02/067444	08/2002	WO				

3 Corresponds to WO98/05860

4 Corresponds to US 6,507,605

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	02/084892	10/2002	WO				
	03/003604	01/2003	WO				
	03/010899	02/2003	WO				
	04/012341	02/2004	WO				

## OTHER DOCUMENTS

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Foerster et al., "Coding for a Coherent DS-CDMA System Employing an MMSE Receiver in a Rayleigh Fading Channel," IEEE Transactions on Communications, Vol. 48, No. 6, June 2000, pp. 1012-1021.
	Latva-aho et al., "LMMSE Detection for DS-CDMA Systems in Fading Channels," IEEE Transactions on Communications, Vol. 48, No. 2, February 2000, 194-199.
	Majmundar et al., "Adaptive Single-User Receivers for Direct-Sequence Spread-Spectrum CDMA Systems," IEEE Transactions on Vehicular Technology, Vol. 49, No. 2, March 2000, pp. 379-389.
	Pahlavan et al., "Performance of Adaptive Matched Filter Receivers Over Fading Multipath Channels," IEEE Transactions on Communications, Vol. 38, No. 12, December 1990, pp. 2106-2113.
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical layer procedures (TDD) (Release 1999)," 3GPP TS 25.224 V1.0.0 (April 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical layer procedures (TDD) (Release 1999)," 3GPP TS 25.224 V3.2.0 (March 2000).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Spreading and modulation (TDD) (Release 1999)," 3GPP TS 25.223 V2.1.0 (June 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Spreading and modulation (TDD) (Release 1999)," 3GPP TS 25.223 V3.2.0 (March 2000).

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	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical channels and mapping of transport channels onto physical channels (TDD) (Release 4)," 3GPP TS 25.221 V1.1.0 (June 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical channels and mapping of transport channels onto physical channels (TDD) (Release 4)," 3GPP TS 25.221 V3.2.0 (March 2000).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD) (Release 1999)," 3GPP TS 25.211 V2.1.0 (June 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical Channels and Mapping of Transport Channels onto Physical Channels (FDD) (Release 1999)," 3GPP TS 25.211 V3.1.0 (December 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Spreading and modulation (FDD) (Release 1999)," 3GPP TS 25.213 V2.1.0 (June 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Spreading and modulation (FDD) (Release 1999)," 3GPP TS 25.213 V3.2.0 (March 2000).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical Layer Procedures (FDD) (Release 1999)." 3GPP TS 25.214 v3.2.0 (March 2000).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Physical Layer Procedures (FDD) (Release 1999)." 3GPP TS 25.214 v1.0.0 (April 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Base Station (BS) radio transmission and reception (FDD)," 3GPP TS 25.104 V2.0.0 (June 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; Base Station (BS) radio transmission and reception (FDD)," 3GPP TS 25.104 V3.2.0 (March 2000).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; User Equipment (UE) radio transmission and reception (FDD)," 3GPP TS 25.101 V2.0.0 (June 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Radio Access Network; User Equipment (UE) radio transmission and reception (FDD)," 3GPP TS 25.101 V3.2.2 (April 2000).

\*\* English abstract only.

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