Based on FORM PTO-1595 (Rev. 08/05) as modified by Blakely, Sokoloff, Taylor & Zafman (wlr) 11/30/2005

BSTZ

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Recordation Form	
To the Director of the U.S. Patent and Trademark Office: Please re	cord the attached documents or the new address(es) below
Name of conveying party(ies):	Name and address of receiving party(ies):
Iospan Wireless, Inc.	
	Name: Intel Corporation
Additional name(s) of conveying party(ies) attached?	Internal Address:
☑ No ☐ Yes	Street Address: 2200 Mission College Boulevard
3. Nature of Conveyance:	
Assignment	
☐ Security Agreement ☐ Change of Name	City: Santa Clara State: CA Zip: 95052
☐ Other	l.
Evenution Date: 0/18/2002	Country: United States
Execution Date: 9/18/2002	Additional name(s)& address(es) attached? ☑ No ☐ Yes
4. Application number(s) or patent number(s):	is document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
10/929,015	
Additional numbers atte	ı ached? ⊠iNo ∐iYes
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Blakely, Sokoloff, Taylor & Zafman LLP	7. Total Fee (37 CFR 3.41)\$
Internal Address:	☐ Enclosed ☑ Authorized to be charged to deposit account
Street Address: 12400 Wilshire Boulevard	
7th Floor	8. Deposit Account Number:
0.4	02-2666
City: Los Angeles State; CA ZIP: 90025 Phone Number: (503) 439-8778	(Attach duplicate copy of this page if paying by deposit account)
Fax Number: (503) 439-6073	(Attach duplicate copy of this page if paying by deposit account)
E-mail Address: mark van ness@bstz.com	
DO NOT US	SE THIS SPACE
Statement and signature. To the best of my knowledge and belief, the foregoing is true and	d correct and any attached copy is a true copy of the original documen
- 70C/-	Millings
Mark C. Van Ness # 39865	
Name of Person Signing	Signature Date
Total number of pages including cover sl	neet, attachments, and document: 9

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Mail Stop Assignment Recordation Services

Director of the US Patent and Trademark Office

Director of the US Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Docket No. 42PI5395XDC

PATENT REEL: 018587 FRAME: 0279

09-07-2004 8.26-04

To the Honorable Commissioner of Patents and Trademarks. Ple 1. Name of conveying party(ies): Peroor K. Sebastian; Robert W. Heath, Jr.; Arogyaswami J. Paulraj	Name and address of receiving party(ies): Name: Intel Corporation
Additional name(s) of conveying party(ies) attached? ☑ No ☐ Yes	Internal Address:Street Address: 2200 Mission College Boulevard
3. Nature of Conveyance: ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other	City: Santa Clara State: CA Zip: 95052
Execution Date: 9/18/2002	Additional name(s)& address(es) attached? ■ No □ Yes
Additional numbers att 5. Name and address of party to whom correspondence concerning document should be mailed:	ached? ⊠ No ☐ Yes 6. Total number of applications and patents involved:
Name: Blakely, Sokoloff, Taylor & Zafman LLP Internal Address: Street Address: 12400 Wilshire Boulevard 7th Floor City: Los Angeles State: CA ZIP: 90025	
DO NOT II	(Attach duplicate copy of this page if paying by deposit acc
9. Statement and signature. To the best of my knowledge and belief, the foregoing is true an	SE THIS SPACE d correct and any attached copy is a true copy of the original do

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services Director of the US Patent and Trademark Office

Total number of pages including cover sheet, attachments, and document:

P.O. Box 1450 Alexandria, VA 22313-1450

Signature

Docket No. 42P15395XDC

Name of Person Signing

Date

3 /20

U.S. PATENT APPLICATION ASSIGNMENT

This U.S. Patent Application Assignment (this "Assignment") is made as of September 18, 2002 by Iospan Wireless, Inc., a Delaware corporation ("Assignor"), to Intel Corporation, a Delaware corporation ("Assignee").

RECITALS

- A. Assignor and Assignee have entered into an Asset Purchase Agreement dated as of September 18, 2002 (the "Purchase Agreement"). All capitalized terms used herein but not otherwise defined shall have the meanings set forth in the Purchase Agreement.
- B. Pursuant to the Purchase Agreement, Assignor desires to assign to Assignee all of Assignor's right, title and interest in and to patent applications filed with the United States Patent and Trademark Office and set forth on Exhibit A hereto (the "Patent Applications").

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants and agreements contained in the Purchase Agreement and the covenants and agreements in this Assignment and to induce Assignee to consummate the transactions contemplated by the Purchase Agreement, Assignor agrees as follows:

- 1. Assignor does hereby sell, transfer, convey, assign and deliver to Assignee all of Assignor's right, title and interest in and to the Patent Applications and any patents that may issue therefrom, including any foreign counterparts, divisions, continuations, or reissues of such patents, the same to be held by Assignee for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment and sale had not been made; together with all claims for Damages by reason of past infringements of the Patent Applications, along with the right to sue for and collect such Damages for the use and benefit of Assignee and its successors, assigns and other legal representatives.
- 2. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any officer of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to Assignee and its successors, assigns and other legal representatives in accordance with the terms of this instrument.
- 3. Assignor hereby covenants with Assignee and the successors and permitted assigns of Assignee that, from time to time after the date hereof, Assignor will promptly execute and deliver to Assignee or shall promptly procure the execution and delivery of any and all such instruments of sale, transfer, conveyance, assignment and delivery, consents, assurances, powers of attorney and other instruments as may reasonably be requested by Assignee in order to vest in

PATENT REEL: 018587 FRAME: 0281

4 /20

Assignee all of Assignor's right, title and interest in and to the Patents and carry out the purpose and intent of this Assignment and the Purchase Agreement.

PATENT

REEL: 018587 FRAME: 0282

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date first above written.

IOSPAN WIRELESS, INC.

By:

Name: Levent Gun

Title: President and Chief Executive Officer

EXHIBIT A

Title Filing Date Data Routing For Spatial 7/30/99 Multiplexing In A Cellular Network Subscriber Unit 4/7/00 Incorporating Spatial Multiplexing Subscriber Unit In A 4/7/00 Hybrid Link Incorporating Spatial Multiplexing A Cellular Wireless Re-Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication Systems	Serial No. 09/518,500 09/545,434 09/564,770 09/591,015
Multiplexing In A Cellular Network Subscriber Unit	09/518,500 09/545,434 09/564,770 09/591,015
Multiplexing In A Cellular Network Subscriber Unit Incorporating Spatial Multiplexing Subscriber Unit In A Hybrid Link Incorporating Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	09/545,434 09/564,770 09/591,015
Subscriber Unit Incorporating Spatial Multiplexing Subscriber Unit In A Hybrid Link Incorporating Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	09/564,770 09/591,015
Incorporating Spatial Multiplexing Subscriber Unit In A Hybrid Link Incorporating Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	09/564,770 09/591,015
Multiplexing Subscriber Unit In A Hybrid Link Incorporating Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	09/564,770 09/591,015
Multiplexing Subscriber Unit In A Hybrid Link Incorporating Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	09/591,015
Subscriber Unit In A Hybrid Link Incorporating Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	09/591,015
Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	09/591,015
Spatial Multiplexing A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	
A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication Method And System For Mode Adaptation In Wireless Communication	,
Spatial Multiplexing And Diversity Communication Method And System For 6/30/00 Mode Adaptation In Wireless Communication	,
Diversity Communication Method And System For 6/30/00 Mode Adaptation In Wireless Communication	09/609,591
Diversity Communication Method And System For 6/30/00 Mode Adaptation In Wireless Communication	09/609,591
Method And System For 6/30/00 Mode Adaptation In Wireless Communication	09/609,591
Mode Adaptation In Wireless Communication	. ,
Wireless Communication	
Systems	
1 - 10:41110	
Spatial Separation And 7/21/00	09/621,119
Multi-Polarization Of	
Antennas In A Wireless	
Cellular Network	
Wireless Communications 9/1/00	09/653,060
System That Supports	Ť
Multiple Modes Of	•
Operation	
An Apparatus And Method 9/28/00	09/678,179
For Optimizing Data	•
Transfer Capacity Of A	
Multiple Base Transceiver	
Station Cellular Wireless	
Network System	
Method And System For 9/29/00	09/676,410
Adapting A Wireless Link	•
In Response To Measured	
Error Rates	
Mode Selection For Data 9/19/00	09/665,149
Transmission In Wireless	•
Communication Channels	
Based On Statistical	
Parameters	*
Interference Mitigation In 10/13/00	09/687,965
Wireless Communications	•

By Training Of Interfering		
Signals	<u> </u>	
A System And Method For	11/8/00	09/708,170
Data Transmission From		
Multiple Wireless Base		
Transceiver Stations To A		
Subscriber Unit		
A System And Method For	12/4/00	09/729,886
Synchronizing Data		
Transmission From		
Multiple Wireless Base		
Transceiver Stations To A		
Subscriber Unit		
Mode Lookup Tables For	12/1/00	09/730,687
Data Transmission In		
Wireless Communication		
Channels Based On		
Statistical Parameters		<u> </u>
Method And System For	12/22/00	09/745,767
Evaluating A Wireless		
Link		
A Method And System For	2/1/01	09/775,860
Controlling The Flow Of	•	,
Data In A Base		
Transceiver Station		
Adaptive Channel	2/6/01	09/778,323
Allocation Technique For		
Wireless Communications		
Systems		
A Method, System And	3/6/01	09/813,656
Apparatus For Displaying		
The Quality Of Data		
Transmissions In A		,
Wireless Communication		
System		
A Method And System For	3/23/01	09/816,652
Scheduling The	•	
Transmission Of Wireless		
Data		
Management And	3/27/01	09/819,947
Scheduling Of Data That		
Is Wirelessly Transmitted		
Between A Base		!
Transceiver Station And	· ·	
Subscriber Units		İ
Method And Wireless	6/6/01	09/876,896
Transfer a War II of Again	5,5,61	02/070,020

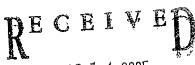
	 	
Communications Systems		
For Interference Mitigation		
(Continuation of GWI-	:	
101)		
Wireless Communication	6/5/01	09/875,806
Systems With Adaptive		,
Channelization And Link		
Adaptation		
	6/11/01	00/000 574
Channel Interpolation	0/11/01	09/880,574
Filters In OFDM Systems		00/070 4/0
Spatial Multiplexing Using	6/4/01	09/873,449
Co-Located Antennae		
With Multiple		
Polarizations Suitable For		
Mobile Applications		
A Wireless System	5/31/01	09/870,706
Contention Management		
Procedure		
A Method And System For	6/28/01	09/894,448
Adapting A Wireless Link		, , , , , , , , , , , , , , , , , , , ,
To Achieve A Desired]
Channel Quality		
A System And Method For	7/5/01	09/900,110
Error Correction Coding	775701	091900,110
Wirelessly Transmitted		1
Information In A Multiple		
Antennae Communication		
System		,
A System And Method Of	7/24/01	09/912,814
Classifying Remote Users		
According To Link		
Quality, And Scheduling		
Wireless Transmission Of		
Information To The Users		
Based Upon The		
Classifications		
A System And Method For	7/24/01	09/912,800
Circulant Transmit		
Diversity		
A System And Method For	8/28/01	09/942,838
Simulating A MIMO	0/20/01	07,772,030
Transmission Channel		
	0/5/01	00/049 004
Transmit Signal	9/5/01	09/948,204
Preprocessing Based On		
Transmit Antennae		
Correlations For Multiple		

Antennae Systems		
A System And Method For	10/9/01	09/975,128
Providing Automatic Re-		
Transmission Of		
Wirelessly Transmitted		
Information		
A System And Method For	11/27/01	09/999,438
Transmit Diversity Based		
Upon Transmission		
Channel Delay Spread		
A System And Method For	12/14/01	10/23,632
Multiple Signal Carrier		
Time Domain Channel		
Estimation		
A System And Method Of	2/5/02	10/072,359
Dynamically Optimizing A		
Transmission Mode Of		
Wirelessly Transmitted		
Information		
A Multiple Channel	3/25/02	10/107,124
Wireless Receiver		
A Robust Multiple Chain	3/25/02	10/107,237
Receiver		
A Method And System For	5/29/02	10/158,734
Multiple Chain Wireless		
Receiver And Transmitter		
Phase And Amplitude		
Correction		
A Method And System Of	6/19/02	10/176,300
Biasing A Timing Phase		
Estimate Of Data		
Segments Of A Received		
Signal		
A Method And System For	7/2/02	10/189,755
Adjusting A Power Level		
Of A Transmission Signal		
Based Upon A Peak To		
Average Ratio	-	
A Method And System Of	9/16/02	
Frequency And Time	- / - 41 4 -	
Synchronization Of A		
Transceiver To Signals		1
Received By The		
Transceiver		
Hanscolver		

Acknowledgment by Notary Public

State of California	
County of Santa Clara	
On this 17 = day of personally appeared 2 = 2 = 2 on the basis of satisfactory evidence.	of 2001, 2002 before me, the undersigned Notary Publice, end of proved to me ence) to be the person whose name is subscribed to the within me that he or she executed the same.
Seal:	Signature: // // (
Commission # 121340: Notary Public - Coliforn Santa Clara County	Name: Notary Public

MAT-G. Och + Po



MAR 1 4 2005



UNITED STATES PATENT AND TRADEMARK OFFICE HAKELY SCHOOL TANDA LAMAN LLP

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 08, 2005

PTAS

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP GREGORY D. CALDWELL 12400 WILSHIRE BOULEVARD, 7TH FLOOR LOS ANGELES, CA 90025



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DOCUMENT ID NO.: 102830686

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SEND DOCUMENTS TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231. IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

ASSIGNMENT.	RECEIVED	
MARCUS KIRK, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECOR	MAR 1 7 2005 Date 4/7/2005 Client: Intel Corporation BEAVERTON Decket Initials 42390.P15395xdc	
Emmay 2	Atty Initials EHT GDC (MAP)	
ENTERED	Pat/Ser/Reg 929015 Description: 62 x	
MAR 1 6 2005	Deadline to resubmit the corrected assignment papers.	
INTO DATABASE	3/15/2005 Katie Ngo 388281	_

11-30-2006

U.S. PATENT APPLICATION ASSIGNMENT

This U.S. Patent Application Assignment (this "Assignment") is made as of September 18, 2002 by Iospan Wireless, Inc., a Delaware corporation ("Assignor"), to Intel Corporation, a Delaware corporation ("Assignee").

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Assignee all of Assignor's right, title and interest in and to the Patents and carry out the purpose and intent of this Assignment and the Purchase Agreement.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date first above written.

IOSPAN WIRELESS, INC.

By:

Name: Levent Gun

Title: President and Chief Executive Officer

11-30-2006

EXHIBIT A

EXHIBIT A		
<u>Title</u>	Filing Date	Serial No.
Data Routing For Spatial Multiplexing In A Cellular Network	7/30/99	09/518,500
Subscriber Unit Incorporating Spatial Multiplexing	4/7/00	09/545,434
Subscriber Unit In A Hybrid Link Incorporating Spatial Multiplexing	4/7/00	09/564,770
A Cellular Wireless Re- Use Structure That Allows Spatial Multiplexing And Diversity Communication	6/9/00	09/591,015
Method And System For Mode Adaptation In Wireless Communication Systems	6/30/00	09/609,591
Spatial Separation And Multi-Polarization Of Antennas In A Wireless Cellular Network	7/21/00	09/621,119
Wireless Communications System That Supports Multiple Modes Of Operation	9/1/00	09/653,060
An Apparatus And Method For Optimizing Data Transfer Capacity Of A Multiple Base Transceiver Station Cellular Wireless Network System	9/28/00	09/678,179
Method And System For Adapting A Wireless Link In Response To Measured Error Rates	9/29/00	09/676,410
Mode Selection For Data Transmission In Wireless Communication Channels Based On Statistical Parameters	9/19/00	09/665,149
Interference Mitigation In Wireless Communications	10/13/00	09/687,965

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By Training Of Interfering		
Signals	11/0/00	
A System And Method For	11/8/00	09/708,170
Data Transmission From		
Multiple Wireless Base	· ·	
Transceiver Stations To A		
Subscriber Unit		
A System And Method For	12/4/00	09/729,886
Synchronizing Data		
Transmission From		
Multiple Wireless Base	•	!
Transceiver Stations To A		
Subscriber Unit		
Mode Lookup Tables For	12/1/00	09/730,687
Data Transmission In		
Wireless Communication		
Channels Based On		
Statistical Parameters		
Method And System For	12/22/00	09/745,767
Evaluating A Wireless		
Link		
A Method And System For	2/1/01	09/775,860
Controlling The Flow Of		
Data In A Base		<u> </u>
Transceiver Station		
Adaptive Channel	2/6/01	09/778,323
Allocation Technique For	2/0/01	05/1/0,525
Wireless Communications		
Systems		
A Method, System And	3/6/01	09/813,656
Apparatus For Displaying	5/0/01	05/015,050
The Quality Of Data		
Transmissions In A		
Wireless Communication		
System		
A Method And System For	3/23/01	09/816,652
·	3/23/01	09/010,032
Scheduling The Transmission Of Wireless	·	
_ 		
Data And	2/27/01	00/010 047
Management And	3/27/01	09/819,947
Scheduling Of Data That		
Is Wirelessly Transmitted		
Between A Base		
Transceiver Station And		
Subscriber Units		
Method And Wireless	6/6/01	09/876,896

11-30-2006

Communications Systems]
For Interference Mitigation		
(Continuation of GWI-		
101)		
Wireless Communication	6/5/01	09/875,806
Systems With Adaptive	5, 4 , 4 <u>1</u>	
Channelization And Link		
Adaptation		!
Channel Interpolation	6/11/01	09/880,574
Filters In OFDM Systems	0/11/01	
Spatial Multiplexing Using	6/4/01	09/873,449
Co-Located Antennae	·· • -	1
With Multiple		
Polarizations Suitable For		
Mobile Applications		
A Wireless System	5/31/01	09/870,706
Contention Management		,
Procedure		
A Method And System For	6/28/01	09/894,448
Adapting A Wireless Link	- · - - · · -	.,
To Achieve A Desired		
Channel Quality		
A System And Method For	7/5/01	09/900,110
Error Correction Coding		
Wirelessly Transmitted		
Information In A Multiple		
Antennae Communication		
System	·	
A System And Method Of	7/24/01	09/912,814
Classifying Remote Users		
According To Link		
Quality, And Scheduling	•	1
Wireless Transmission Of		
Information To The Users		
Based Upon The		
Classifications	<u></u>	
A System And Method For	7/24/01	09/912,800
Circulant Transmit		
Diversity	<u></u>	
A System And Method For	8/28/01	09/942,838
Simulating A MIMO		
Transmission Channel		
Transmit Signal	9/5/01	09/948,204
Preprocessing Based On		
Transmit Antennae		
Correlations For Multiple		

PATENT REEL: 018587 FRAME: 0295

Antennae Systems	<u> </u>	
A System And Method For	10/9/01	09/975,128
Providing Automatic Re-		
Transmission Of		
Wirelessly Transmitted		
Information		
A System And Method For	11/27/01	09/999,438
Transmit Diversity Based		
Upon Transmission		
Channel Delay Spread		
A System And Method For	12/14/01	10/23,632
Multiple Signal Carrier		
Time Domain Channel		
Estimation		
A System And Method Of	2/5/02	10/072,359
Dynamically Optimizing A		
Transmission Mode Of		
Wirelessly Transmitted		
Information		
A Multiple Channel	3/25/02	10/107,124
Wireless Receiver		
A Robust Multiple Chain	3/25/02	10/107,237
Receiver		
A Method And System For	5/29/02	10/158,734
Multiple Chain Wireless		
Receiver And Transmitter		
Phase And Amplitude		
Correction		
A Method And System Of	6/19/02	10/176,300
Biasing A Timing Phase		
Estimate Of Data		
Segments Of A Received		
Signal		
A Method And System For	7/2/02	10/189,755
Adjusting A Power Level		, , , ,
Of A Transmission Signal		
Based Upon A Peak To		
Average Ratio		
A Method And System Of	9/16/02	
	71 TO/OZ	
Frequency And Time		
Synchronization Of A		
Transceiver To Signals		
Received By The		
Transceiver		

Acknowledgment by Notary Public

State of California
County of Santa Clara
On this day of, 2002 before me, the undersigned Notary Public personally appeared, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he or she executed the same.
Seal: Signature: // (
Name: Notary Public Commission # 1213405 Notary Public - Collionia Santa Clara County ANCORD Total Name (1998)