

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PTS Corporation	07/10/2006
RECEIVING PARTY DATA	
Name:	Altera Corporation
Street Address:	101 Innovation Drive
City:	San Jose
State/Country:	CALIFORNIA
Postal Code:	95134
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12048372
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	019930-007902US
NAME OF SUBMITTER:	Irvin E. Branch

Total Attachments: 10

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**ASSIGNMENT**

WHEREAS, PTS Corporation of 101 Innovation Drive, San Jose, CA 95134, hereinafter referred to as ("ASSIGNOR") is the owner of certain patent applications and issued patents as listed in Exhibit A attached hereto and incorporated herein by this reference (the "Patents");

WHEREAS, Altera Corporation of 101 Innovation Drive, San Jose, CA 95134, hereinafter referred to as ("ASSIGNEE") wants to acquire an interest in the Patents and in any Letters Patent and Registrations that may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor does hereby assign to Assignee all right, title and interest in and to the Patents and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

IN TESTIMONY WHEREOF, this Assignment is executed this

10 day of July, 2006.

BY:

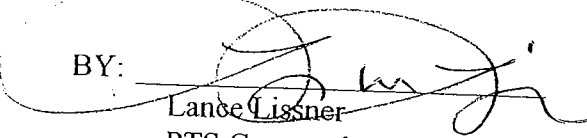
  
Lance Ligsner  
PTS Corporation  
Title: Senior Vice President, Business  
Development

EXHIBIT A  
PATENTS

TTC Ref Country ATTY(S) (PMB)	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-000100US (PMB)	A1274	Wavelength Router	Weverka, Robert T. Roth, Richard S.	09/44/2061 11/6/1999	6501877 12/31/2002
019930-000110CCA (PMB)		Wavelength Router	Weverka, Robert T. Georgis, Steven P. Roth, Richard S.	2389622 11/14/2000	
019930-000110CN (PMB)	A01274CN	Wavelength Router	Weverka, Robert T. Georgis, Steven P. Roth, Richard S.	00815769.3 11/14/2000	
019930-000110EP DNS (PMB)	A01274EP	Wavelength Router	Weverka, Robert T. Georgis, Steven P. Roth, Richard S.	00983709.7 11/14/2000	
019930-000110JP (PMB)	A01274JP	Wavelength Router	Weverka, Robert T. Georgis, Steven P. Roth, Richard S.	2001-538854 11/14/2000	
019930-000110PC (PMB)		Wavelength Router	Weverka, Robert T. Georgis, Steven P. Roth, Richard S.	00/3144x 11/14/2000	
019930-000110US (PMB)	A1274 CIP	Wavelength Router	Weverka, Robert T. Georgis, Steven P.	10/148710 11/18/2002	
019930-000120US (PMB)	A1274 C1	Wavelength Router	Weverka, Robert T. Roth, Richard S.	10/278182 10/21/2002	6868205 03/15/2005
019930-000130US (PMB)	A1274 D1	Wavelength Router	Weverka, Robert T.	10/750625 12/29/2003	6826349 11/30/2004
019930-000140US (PMB)	A1274 D2	Wavelength Router	Weverka, Robert T.	10/748535 12/29/2003	6975789 12/13/2005
019930-000200CA (PMB)		Wavelength Monitor for WDM Systems	Georgis, Steven P. Weverka, Robert T.	2406369 03/22/2001	
019930-000200CN (PMB)		Wavelength Monitor for WDM Systems	Georgis, Steven P. Weverka, Robert T.	01811343.5 03/22/2001	
019930-000200EP (PMB)		Wavelength Monitor for WDM Systems	Georgis, Steven P. Weverka, Robert T.	01928317.5 03/22/2001	
019930-000200JP (PMB)		Wavelength Monitor for WDM Systems	Georgis, Steven P. Weverka, Robert T.	2001-576415 03/22/2001	
019930-000200PC (PMB)		Wavelength Monitor for WDM Systems	Georgis, Steven P. Weverka, Robert T.	PCT/US01/094 42	
019930-000200US (PMB)	A1275	Wavelength Monitor for WDM Systems	Georgis, Steven P. Weverka, Robert T.	09/551256 04/18/2000	6707550 03/16/2004
019930-000300US (PMB)	A1276	Linear Optical Beam Translator for Optical Routing	Weverka, Robert T. Roth, Richard S.	09/558158 09/08/2000	6845187 01/18/2005
019930-000510PC (PMB)		Linear Optical Beam Translator For Optical Routing	Weverka, Robert T. Roth, Richard S.	01/28309 09/07/2001	

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PATENTS

TTC Ref Country ATTY(6) Handling	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-000600PC (PMB)		Binary Switch for an Optical Wavelength Router	Anderson, Robert L.	01/50524 12/20/2001	
019930-000600US (PMB)	A1277	Binary Switch for an Optical Wavelength Router	Anderson, Robert L.	09/745760 12/20/2000	6542657 04/01/2003
019930-000700PC (PMB)		1X2 Optical Wavelength Router	Anderson, Robert L.	01/50441 12/20/2001	
019930-000700US (PMB)	A1278	1X2 Optical Wavelength Router	Anderson, Robert L.	09/745459 12/20/2000	6535664 03/18/2003
019930-000800US (PMB)	A1279	Wavelength Router With Staggered Input-Output Fibers	Anderson, Robert L. Weaver, Samuel P.	09/747064 12/20/2000	6873755 03/29/2005
019930-000900US (PMB)	A1280	Diffraction Grating with Reduced Polarization- Dependent Loss	Fabiny, Larry Sarto, Tony	09/615300 07/13/2000	6449096 09/10/2002
019930-000910US (PMB)	A1281 CIP	Grating Fabrication Process Using Combined Crystalline-Dependent & Crystalline-Independent Etching	Muller, Liac Arnett, Kenneth E. Fabiny, Larry Pister, Kristofer S. J.	09/669758 09/26/2000	6517734 02/11/2003
019930-000920US (PMB)	A1282 CIP	Diffraction Grating with Reduced Polarization- Dependent Loss	Fabiny, Larry	09/748687 12/21/2000	6490089 12/03/2002
019930-000930PC (PMB)		Diffraction Grating With Reduced Polarization- Dependent Loss	Fabiny, Larry Sarto, Tony Muller, Liac Arnett, Kenneth E. Pister, Kristofer	01/22229 07/11/2001	
019930-000940US (PMB)	A01280C1	Diffraction Grating With Reduced Polarization- Dependent Loss	Fabiny, Larry Sarto, Tony	10/241105 09/10/2002	6995910 02/07/2006
019930-001000PC DJG (PMB)		Reduction of Polarization-Dependent Loss from Grating Used in Double-Pass Configuration	Fabiny, Larry	PCT/US01/475 65 11/02/2001	
019930-001000US (PMB)	A1283	Reduction of Polarization-Dependent Loss from Grating Used in Double-Pass Configuration	Fabiny, Larry	09/706489 11/03/2000	6751415 06/15/2004
019930-001010US (PMB)	A01284CIP	Reduction of Polarization-Dependent Loss from Grating Used in Double-Pass Configuration	Fabiny, Larry	10/076182 02/12/2002	7054561 05/30/2006

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PATENTS

TTC Ref Country ATTY(S) Handling	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-001020US (PMB)	A01285CIP	Reduction of Polarization-Dependent Loss in Double Pass Configurations	Silveira, Paulo E. X. Sarto, Tony Fabiny, Larry Voitel, Marko	10/171434 06/12/2002	
019930-001100US (PMB)		Variable Wavelength Attenuator for Spectral Grooming Using Micromirror Routing	Weaver, Samuel P.	60/363724 03/11/2002	
019930-001110PC (PMB)		Variable Wavelength Attenuator for Spectral Grooming and Dynamic Channel Equalization Using Micromirror Routing	Weaver, Samuel P. Sarto, Andrew W.	PCT/US03/079 02 03/11/2003	
019930-001110US (PMB)	A1286	Variable Wavelength Attenuator for Spectral Grooming and Dynamic Channel Equalization Using Micromirror Routing	Weaver, Samuel P. Sarto, Anthony W.	10/243924 09/12/2002	6781730 08/24/2004
019930-001200US (PMB)	A1287	Focal Length Dispersion Compensation for Field Curvature	Weaver, Samuel P. Cabill, Raymond F.	09/782882 02/13/2001	6766081 07/20/2004
019930-001300PC DJG (PMB)	39	Athermalization of a Wavelength Routing Element	Wendland Jr., R.G.	01/24242 07/31/2001	
019930-001300US DJG (PMB)	A1288	Athermalization of a Wavelength Routing Element	Wendland Jr., R.G.	09/630817 08/02/2000	6381387 04/30/2002
019930-001400US (PMB)	A1289	Hidden Flexure Ultra- Planar Optical Routing Element	Michalick, M. Adrian	09/859069 05/15/2001	6608712 08/19/2003
019930-001410US (PMB)	A01289C1	Hidden Flexure Ultra Planar Optical Routing Element	Michalick, M. Adrian	10/619940 07/14/2003	7019885 03/28/2006
019930-002000US (PMB)	A1290	Optical Routing Elements	Wendland, Ronald G, Jr.	10/161838 06/03/2002	6785039 08/31/2004
019930-002200US (PMB)		Method to Reduce Release Time of Micromachined Devices	Muller, Lilac Staple, Bevan	60/252781 11/22/2000	
019930-002210US (PMB)	A1291	Method to Reduce Release Time of Micromachined Devices	Muller, Lilac Staple, Bevan	09/837362 04/18/2001	6525352 02/25/2003
019930-002300EP (PMB)	A1292	Method for Reducing Leaching in Metal- Coated MEMS	Staple, Bevan Miller, David Muller, Lilac	03759232.6 09/09/2003	
019930-002300PC (PMB)	A01292PCT	Method for Reducing Leaching in Metal- Coated MEMS	Staple, Bevan Miller, David Muller, Lilac	PCT/US03/285 05 09/09/2003	

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TTC Ref Country ATTY(S) Handling (PMB)	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-002300US (PMB)	A1292	Method for Reducing Leaching in Metal- Coated MEMS	Staple, Bevan Miller, David Muller, Liliac	09/799916 03/05/2001	6616853 09/09/2003
019930-002310US (PMB)		Method for Reducing Leaching in Metal- Coated MEMS	Staple, Bevan Miller, David Muller, Liliac	10/632698 08/01/2003	6939974 09/06/2005
019930-002400US (PMB)	A1293	Optical Surface-Mount Lens Cell	Anderson, David P.	09/899013 07/03/2001	6674584 01/06/2004
019930-002500US (PMB)	A1294	MEMS-Based Noncontacting Free- Space Optical Switch	Staple, Bevan Roth, Richard S.	09/899002 07/03/2001	6701037 03/02/2004
019930-002510US MLD (PMB)	A01294C1	Movable MEMS-Based Noncontacting Device	Staple, Bevan Roth, Richard S.	10/791633 03/01/2004	7030537 04/18/2006
019930-002600US (PMB)	A1295	Free-Space Optical Wavelength Routing Elements Based on Stepwise Controlled Tilting Mirrors	Buzzetta, Victor Staple, Bevan Marinelli, David	09/899000 07/03/2001	6535319 03/18/2003
019930-002700US (PMB)	A1296	Two-Dimensional Free- Space Optical Wavelength Routing Element Based On Stepwise Controlled Tilting Mirrors	Buzzetta, Victor	09/899001 07/03/2001	6873447 03/29/2005
019930-002710US (PMB)	A1296 C1	Two-Dimensional Free- Space Optical Wavelength Routing Element Based On Stepwise Controlled Tilting Mirrors	Buzzetta, Victor	10/300438 11/19/2002	6829069 12/07/2004
019930-002711US (PMB)	A01296C2	Two-Dimensional Stepwise-Controlled Microstructure	Buzzetta, Victor	11/005766 12/06/2004	7042609 05/09/2006
019930-002800US G2B (PMB)	A1297	Systems and Methods for Overcoming Stiction	Miller, David Muller, Liliac Anderson, Robert L.	10/087040 02/28/2002	6856068 02/15/2005
019930-002810US G2B (PMB)	A1297 D1	Systems and Methods for Overcoming Stiction	Miller, David Muller, Liliac Anderson, Robert L.	10/719857 11/20/2003	6791235 09/14/2004
019930-002820US G2B (PMB)	A1297 D2	Systems and Methods for Overcoming Stiction	Miller, David Muller, Liliac Anderson, Robert L.	10/719181 11/20/2003	6798114 09/28/2004
019930-002830US G2B (PMB)	A1297 D3	Systems and Methods for Overcoming Stiction	Miller, David Muller, Liliac Anderson, Robert L.	10/719858 11/20/2003	6856069 02/15/2005
019930-002840US G2B (PMB)	A1297 D4	Systems and Methods for Overcoming Stiction	Miller, David Muller, Liliac Anderson, Robert L.	10/719177 11/20/2003	6949866 09/27/2005

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TTC Ref Country ATTY(S) Handling	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-002850US G2B (PMB)	A01297DS	Systems and Methods for Overcoming Stiction	Miller, David Muller, Liliac Anderson, Robert L.	11/166764 06/23/2005	
019930-003000US G2B (PMB)	A1298	Methods and Apparatus for Providing a Multi- Stop Micromirror	Anderson, David P.	09/899014 07/03/2001	6614581 09/02/2003
019930-003100US G2B (PMB)	A1299	Systems and Methods for Overcoming Stiction Using a Lever	Staple, Bevan Anderson, David P. Muller, Liliac	09/898988 07/03/2001	6625342 09/23/2003
019930-003110US G2B (PMB)		Systems and Methods for Overcoming Stiction Using a Lever	Staple, Bevan Anderson, David P. Muller, Liliac	10/632662 08/01/2003	6859580 02/22/2005
019930-003200US (PMB)	A1300	Bistable Micromirror with Contactless Stops	Muller, Liliac	09/899004 07/03/2001	6657759 12/02/2003
019930-003210US (PMB)	A1300	Bistable Micromirror With Contactless Stops	Muller, Liliac	10/705390 11/10/2003	6778304 08/17/2004
019930-003220US (PMB)	A1300	Movable Microstructure With Contactless Stops	Muller, Liliac	10/871466 06/18/2004	6909530 06/21/2005
019930-003500US (PMB)	A1301	Micromirror Array Having Adjustable Angles	Anderson, Robert L. Staple, Bevan Roth, Richard S.	09/880230 06/12/2001	6600591 07/29/2003
019930-003600US (PMB)	A1302	Dual-Wave Optical Shared Protection Ring	Wahler, Ronald A. Bortolini, Edward J.	09/954662 09/12/2001	6853811 02/08/2005
019930-003700CN WfV (PMB)	A01303CN	Method and Apparatus for Protecting Wiring and Integrated Circuit Device	Anderson, Robert L. Reyes, David	03153258.6 08/11/2003	
019930-003700EP WfV (PMB)	A01303EP	Method & Apparatus for Protecting Wiring & Integrated Circuit Device	Anderson, Robert L. Reyes, David	03254943.8 08/08/2003	
019930-003700US WfV (PMB)	A1303	Method and Apparatus for Protecting Wiring and Integrated Circuit Device	Anderson, Robert L. Reyes, David	10/216600 08/09/2002	6809384 10/26/2004
019930-003710US WfV (PMB)		Method and Apparatus for Protecting Wiring and Integrated Circuit Device	Anderson, Robert L. Reyes, David	10/828486 04/19/2004	6908781 06/21/2005
019930-004000US (PMB)	A1304	MEMS Die Holder	Roberts, Joseph	09/941325 08/28/2001	6793209 09/21/2004
019930-004400US (PMB)	A1305	Multimirror Stack for Vertical Integration of MEMS Devices in Two- Position Retroreflectors	Copeland, Frederick	09/941998 08/28/2001	6439728 08/27/2002
019930-004500US (PMB)	A01306	Optical Wavelength Cross Connect Architectures Using Wavelength Routing Elements	Bortolini, Edward J. Barthel, Dirk Wewerka, Robert T. Jraschko, Rainer R. Morley, George D.	10/093844 03/08/2002	



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TTC Ref Country ATTY(s) Handling	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-004510EP (PMB)	A01307EP	Optical Wavelength Cross Connect Architectures Using Wavelength Routing Elements and Methods For Performing In- Service U	Borrolini, Edward J. Barbel, Dirk Weverka, Robert T. Iraschko, Rainer R. Morley, George D.	03714069.6 03/10/2003	
019930-004510PC (PMB)	A01307CIPPC T	Optical Wavelength Cross Connect Architectures Using Wavelength Routing Elements and Methods For Performing In- Service U	Borrolini, Edward J. Barbel, Dirk Weverka, Robert T. Iraschko, Rainer R. Morley, George D.	PCT/US03074 22 03/10/2003	
019930-004510US (PMB)	A01307CIP	Optical Wavelength Cross Connect Architectures Using Wavelength Routing Elements	Weverka, Robert T.	10/279388 10/23/2002	6990268 01/24/2006
019930-005500US (PMB)	A1308	Wavelength Router With a Transmissive Dispersive Element	Fabiny, Larry	09/992087 11/12/2001	6798951 09/28/2004
019930-005600US (PMB)	A1309	High-Efficiency Low- Polarization-Dependent- Loss Lamellar Diffraction-Grating Profile and Production Process	Fabiny, Larry Arnett, Kenneth E.	09/992849 11/12/2001	6747799 06/08/2004
019930-005700US MLD (PMB)	A01310	Survivable Ring Transmission System With Multiple Protection Classes	Iraschko, Rainer R. MacGregor, Michael H Morley, George D. Siamatatakis, Dimitrios	10/118070 04/05/2002	7003225 02/21/2006
019930-005800US (PMB)	A1311	One-to-M Wavelength Routing Element	Wahler, Ronald A. Cizek, Nicholas C.	10/099392 03/13/2002	6959132 10/25/2005
019930-005900US G2B (PMB)	A01312	Two-By-Two Wavelength Routing Element Using One Two- Position MENS Mirrors	Weaver, Samuel Paul Cizek, Nicholas C.	10/098805 03/13/2002	

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PATENTS

TTC Ref Country ATTY(Handling)	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-006000US (PMB) RCL (PMB)	A01313	Optical Interconnection for Traffic Between a Pair of DWDM Rings	Weverka, Robert T. Alaimo, S. Christopher Barthel, Dirk Bortolini, Edward J. Iraschko, Rainer R. Morley, George D. Stamatelakis, Demetrios	10/306826 11/26/2002	
019930-006100US (PMB)	A1314	Methods for Affirming Switched Status of MEMS-Based Devices	Staple, Bevan Anderson, Robert L.	10/080789 02/21/2002	6750655 06/15/2004
019930-006110US (PMB)	A1314C1	Methods for Affirming Switched Status of MEMS-Based Devices	Staple, Bevan Anderson, Robert L.	10/839545 05/04/2004	6969996 11/29/2005
019930-007300PC (PMB)	PAT-01-0355	Tunable DWDM Demultiplexer	Alaimo, S. Christopher Bortolini, Edward J. DeFrancisco, Marc Honea, Keith Marinelli, David Mechels, Steven Rice, James Weverka, Robert T. Kiruluta, Andrew J. M. Wood, Christopher S. Kaliskl, Robert W.	PCT/US01/073 99 03/11/2003	
019930-007300US (PMB)	A1315	Tunable DWDM Demultiplexer	Alaimo, S. Christopher Bortolini, Edward J. DeFrancisco, Marc Honea, Keith Marinelli, David Mechels, Steven Rice, James Weverka, Robert T. Kiruluta, Andrew J. M. Wood, Christopher S. Kaliskl, Robert W.	10/095794 03/11/2002	6690853 02/10/2004
019930-007500US (PMB)	A1316	Methods for Performing In-Service Upgrades of Optical Wavelength Cross Connects	Bortolini, Edward J.	10/093843 03/08/2002	6813408 11/02/2004

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TTC Ref Country ATTY(s) Handling	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-007900US G2B (PMB)	A01317	Bidirectional Wavelength Cross-Connect Architectures Using Wavelength Routing Elements	Borrolini, Edward J. Barthel, Dirk Weverka, Robert T. Weaver, Samuel Paul Silveira, Paulo E. X.	10/150810 05/17/2002	
019930-008000US (PMB)	A01318CIP	Multi-City DWDM Wavelength Link Architectures and Methods for Upgrading	Alaimo, S. Christophe Barthel, Dirk Morley, George D. Borrolini, Edward J. Ute, Richard W.	10/126189 04/19/2002	
019930-008100CN (PMB)	A01319CN	Optical Routing Mechanism With Integral Fiber Input/Output Arrangement on MEMS Die	Kaplan, Michael L.	200410029639. 9 03/26/2004	
019930-008100EP (PMB)	A01319EP	Optical Routing Mechanism With Integral Fiber Input/Output Arrangement on MEMS Die	Kaplan, Michael L.	04251035.4 02/25/2004	
019930-008100US (PMB)	A1319	Optical Routing Mechanism With Integral Fiber Input/Output Arrangement On MEMS Die	Kaplan, Michael L.	10/401416 03/28/2003	6954563 10/11/2005
019930-008200US (PMB)	A01320	Variable-Density Optical Cross Connect Architectures and Upgrades	Weverka, Robert T. Borrolini, Edward J. Ute, Richard W. Clark, Phillip	10/147181 05/15/2002	
019930-008300CN (PMB)	A01321CN	Surfactant-Enhanced Protection of Micromechanical Components from Galvanic Degradation	Staple, Bevan	03156788.6 09/12/2003	
019930-008300EP (PMB)	A01321EP	Surfactant-Enhanced Protection of Micromechanical Components from Galvanic Degradation	Staple, Bevan	03255693.8 09/11/2003	
019930-008300US MLD (PMB)	A01321	Surfactant-Enhanced Protection of Micromechanical Components from Galvanic Degradation	Staple, Bevan	10/242213 09/12/2002	
019930-008310US MLD (PMB)	A01321DI	Surfactant-Enhanced Protection of Micromechanical Components from Galvanic Degradation	Staple, Bevan Burak, Jillian	11/213466 08/26/2005	

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PATENTS

TTC Ref Country ATTY(s) Handling	Client's Ref	Title	Inventor	Application No. Filing Date	Patent No. Issue Date
019930-008400CN (PMB)	A01322CN	Floating Entrance Guard for Preventing Electrical Short Circuits	Miller, David	03134943.9 09/30/2003	
019930-008400EP (PMB)	A01322EP	Floating Entrance Guard for Preventing Electrical Short Circuits	Miller, David	03256118.5 09/29/2003	
019930-008400US (PMB)	A01322	Floating Entrance Guard for Preventing Electrical Short Circuits	Miller, David	10/262404 09/30/2003	7002215 02/21/2006

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PATENT

REEL: 020651 FRAME: 0853

RECORDED: 03/14/2008