

Old Dominion University Patent Listing

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	Patent No.	Title	Inventors	Date Patent Issued/ Status	Funded by/ Assignee	IP File No.
1	4,267,573	Image processing system	Chaikin Weiman	1981 (patent has expired) Was licensed to Digital Analog Design Associates (DADA) royalty free to construct a prototype	ODURF & NYU	7801
2	4,406,952	Opening switch for interrupting current using a plasma force device	Molen Cox	1983		7902
3	4,727,751	Crossflow vorticity sensor	Holmes, Harlan Homes Carraway Moore	1988	NASA NAG-1-387 ODURF declined title	8704
4	4,770,038	Ultrasonic depth gauge for liquids under high pressure	Zuckerwar Mazel	1988	NASA NAS1-17099 ODURF declined title	8604
5	4,786,168	Frequency domain laser velocimeter signal processor	Meyers Stoughton Clemmons Kanetkar Savakis	1988	NASA NAS1-17993 ODURF declined title	8606
6	4,825,061	Optically controlled bulk semiconductor switch	Schoenbach Germer Lakdawala Vishnukumar Albin	1989	CIT Navy N00014-86-K-0560	8601
7	4,829,035	Reactivation of a tin oxide-containing catalyst	Brown, Ken Upchurch Miller Hess Schryer	1989	NASA L-79510B L-83135B NAS1-17099	8706

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			Sidney Wood Paulin		ODURF declined title	
8	4,831,248	Electron Beam Controlled Bulk Semiconductor Switch with Cathodoluminescent Electron Activation	Schoenbach Lakdawala Germer Schmitt	1989 (In 1997, allowed to go abandoned; maintenance fee not paid)	Assigned by CIT to ODURF 1997; ONR Army DAALO3 86 K 0078 CIP of 082,546	8701
9	4,839,330	Isotope exchange in oxide-containing catalyst	Brown, Ken Hess Upchurch Miller Schryer Sidney Wood Hoyt	1989	NASA L-79510B L-83135B Chemicon NAS1-17993 ODURF declined title CIP of 874,304	8804
10	4,884,361	Methods and Apparatus for Controlling Anthropol Populations	Sonenshine Hamilton	1989	CIT Paid maintenance fee 10/16/01 \$2,065 License w/ ACM International terminated	8702
11	4,912,082	Catalyst for carbon monoxide oxidation	Brown, Ken Upchurch Miller Davis Schryer Brown, David Van Norman	1990	NASA "contractors elected not to retain title" NAS1-18584 LAR 1415515B LAR 14155-2 CU ODU declined title	8907
12	4,916,303	Electron Beam Controlled Bulk Semiconductor	Schoenbach Lakdawala Brinkmann	1990 (In 1998 allowed to	Assigned by CIT to ODURF	8903

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		Switch with Cathodoluminescent Electron Activation	Gerdin	go abandoned; maintenance fee not paid)	1997 CIP of 4831248 CIP of 4825061	
13	4,922,413	Method for Concurrent Execution of Primitive Operations by Dynamically Assigning Operations based upon Computational Marked Graph and Availability of Data	Mielke Stoughton	1990 (In 2001, allowed to go abandoned; maintenance fee not paid)	Assigned by CIT to ODURF 1997 NCC1-136 NAS1-17993 NASA	8602
14	4,991,181	Catalyst for carbon monoxide oxidation	Brown, Ken Brown, David Upchurch Miller Davis Schryer, D. Van Norman	1991	LAR 14155-2-CU	8908
15	5,000,860	Method for Dewatering Alum Sludge	Drewry	1991	Assigned by CIT to ODURF 1997 Licensed to DeGussa Corp revd \$13,000 License terminated 11/30/94	8904
16	5,054,412	Hydrodynamic skin friction reduction	Reed Bushnell Weinstein	1991	LAR 14078-1-CU, NAG1-530 ODU declined title	8910
17	5,057,338	Process for application of powder particles to filamentary materials	Marchello Baucom Snoha	1991	NAS1 18584 LAR 14231-1-CU ODU elected not to retain	8909

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					title	
18	5,146,780	Vacuum isolation vessel and method for measurement of thermal noise in microphones	Zuckerwar Ngo	1991	ODU declined title	9008
19	5,146,803	Noncircular rolling joints for vibrational reduction in slewing maneuvers	Chew Juang Yang	1992	NASA LAR 145'5-1-CU NAG 1-830 NGT 70134 ODU declined title Made jtly	9007
20	5,149,526	Use of Cholesteryl Esters as Mounting Sex Pheromones in Combination with 2,6-Dichlorophenol and pesticides to control populations of hard ticks	Sonenshine Hamilton Lusby	1992	US Department of Agriculture	9012
21	5,155,048	Organic Reagent for the Colorimetric Detection of Chlorine and Ozone in Drinking Water	Williams, Roy Williams, Sherry	1992	Assigned by CIT to ODURF 1997	9110
22	5,207,110	Suspension device for low-frequency structures	Chew Juang Yang	1993	NASA; Jointly made by NASA and ODURF employees	8902
23	5,227,731	Method of continuously determining crack length	Prabhakaran Lopez	1993	NASA ODU declined title LAR 14480-1-CU, NAS1-18584 Jtly made	9013
24	5,229,993	Control of access through local carrier sensing for	Maly Foudriat Overstreet	1993	ODU	9001

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		high data rate networks and control of access of synchronous messages through circulating reservation packets	Pattera Khanna			
25	5,256,223	Fiber enhancement of viscoelastic damping polymers	Alberts Chen	1993 In 1997, Cross-licensed to TRW	CIT assigned to ODURF 1998 NAS1-18687	9002
26	5,296,227	Attractant decoy for controlling bont ticks	Sonenshine Meltzer Burridge Norval	1994	ODU & U Florida	9011
27	5,309,767	Pressure Sensor Using Liquid Crystals	Holmes, Harlan Parmar	1994	Assigned by CIT to ODURF 1997 NASA NAS1-18584	9105
28	5,357,902	Self-Medicating Applicator for Controlling Pests on Animals	Sonenshine Meltzer Norval Burridge	1994	Assigned by CIT to ODURF 1997 ODU & U Florida	9307
29	5,395,477	Apparatus for consolidating a pre-impregnated filament-reinforced polymeric prepreg material	Sandusky, Don (ODU? or William & Mary?)	1995	LAR 15470-1-CU NGT 51008	9310
30	5,405,683	Nonrectangular Tow Preg Architectures	Marchello Sandusky Baucom	1995	LAR 14863-1-CU NAG 1-1067	9204
31	5,502,041	Potent inhibitor of HIV reverse transcriptase	Moen (ODU) Clark	1996	CIT Assigned to ODU 1997	9207
32	5,524,631	Passive fetal heart rate monitoring apparatus and method with	Zahorian (ODU) Livingston (ODU)	1996	NASA; Jointly made	9303

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		enhanced fetal heart beat discrimination	Pretlow (Lockheed)		NCC1 164 NAS1 18584 ODU declined title LAR 15129-1-CU	
33	5,561,348	Field controlled plasma discharge device	Schoenbach Nunnally	1996 Licensed to Laser Light	ODU	9402
34	5,585,083	Catalytic Process for Formaldehyde Oxidation	Brown Kielin Schryer Upchurch Wood D'Ambrosia	1996	NASA & Rochester Gas & Electric Corp LAR 15351-1-CU NAS1-19858, 8 ODU declined title title	9504
35	5,587,041	Composite Prepreg Application Device	Marchello Sandusky	1996	NASA LAR 15259-2-CU NAG1-1067 ODU declined title	9409
36	5,618,367	Dry powder process for preparing uni-tape prepreg from polymer powder coated filamentary towpregs	Johnston (NASA) Marchello (ODU) Wilkinson (William & Mary)	1997	NASA NCC-1-150 NAG1-1067 W/ College of William & Mary and ODU LAR 151141 CU Grantees declined title	9309
37	5,628,044	Pure iron-zinc intermetallic galvanneal calibration	Cook, Desmond Grant Cook, Pat	1997 (In 2000, allowed to	ODU	9405

	Patent No.	Title	Inventors	Date Patent Issued/ Status	Funded by/ Assignee	IP File No.
		standards		go abandoned)		
38	5,686,789	Discharge device having cathode with micro hollow array	Schoenbach Byszewski Dharamsi Peterkin	1997	Osram & ODU	9516
39	5,694,807	Apparatus and Method for Determining the Mass Density of a Filament	Marchello Hinkley (NASA)	1997	NASA NAG-1- 1067, jointly made ODU declined title	9202
40	5,765,073	Field controlled plasma discharge printing device	Schoenbach Nunnally	1998	ODU	9501
41	5,892,228	Process and apparatus for octane numbers and reid vapor pressure by Raman spectroscopy	Cooper Bledsoe Wise Sumner Welch Wilt	1999	Ashland & ODURF	9510
42	5,856,869	Distributed bragg reflector diode laser for raman excitation and method of use	Cooper Flecher Welch	1999	Ashland	9509
43	5,596,196	Oxygenate analysis and control by Raman spectroscopy	Cooper Wise Sumner Welch	1997	Ashland	9511
44	5,684,580	Hydrocarbon analysis and control by Raman spectroscopy	Cooper Flecher Welch	1997	Ashland	9512
45	5,939,829	Discharge device having cathode with micro hollow array	Schoenbach Byszewski Dharamsi Peterkin	1999	Osram	9702
46	6,061,134	Modulated Fourier Transform Raman fiber-optic spectroscopy	Cooper Jensen Wise	2000	NASA & ODURF NGT-1- 52124 ODU declined title	9703
47	6,063,043	Acoustic vesicoureteral reflux diagnostic	Meyers Mevorach	2000	ODURF	9701

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		system				
48	6,072,273	Discharge device having cathode with micro hollow array	Schoenbach Byszewski Dharamsi Peterkin	2000	Osram & ODU	9904
49	6,132,694	Catalyst for Oxidation of Volatile Organic Compounds	Brown, Ken Wood Upchurch Schryer, D. Davis Kielin Schyrer, J. D'Ambrosia	2000	NASA ODU declined title	9706
50	6,326,177	Method and Apparatus for Intracellular electro-manipulation	Schoenbach Beebe Buescher	2001	EVMS & ODU US Air Force Grant F49620-99- 1-00069	9906
51	6,331,297	Tick pheromones and uses thereof	Sonenshine Burridge Allan	2001	U Florida & ODURF	9812
52	6,346,770	Discharge device having cathode with micro hollow array	Schoenbach Byszewski Peterkin Dharamsi	2002	Osram Sylvania & ODU	9904
53	Pending	Direct Current High Pressure Glow Discharges	Schoenbach Stark	2002	ODU	0003