

**Edgewood Chemical Biological Center Patents List**

updated 7/1/2008

<b><u>Issue Date</u></b>	<b><u>Number</u></b>	<b><u>Title</u></b>
11/27/07	7,299,709	Aerosol collecting device for a chemical detector
11/20/07	7,298,244	NBC marker light
11/13/07	7,295,308	Air Sampling Method and Sensor System for Spectroscopic Detection and Identification of Chemical and Biological Contaminants
11/06/07	7,290,542	System and method for developing and metering powder aerosol
11/06/07	7,291,478	Rapid screening and analysis of present and potential nerve agents and their degradation products
11/06/07	7,290,542	System and Method for Delivering and Metering Powder Aerosol
10/30/07	7,289,944	System and Method for Hazardous Incident Decision Support and Training
10/02/07	7,277,829	Synthetic Signal Generator for Testing Biological Aerosol Detector Peak Detection Algorithms
09/11/07	7,267,943	Methods for detecting bacteriophage MS2
09/04/07	7,264,783	Device and method for neutralizing chemical agents
09/04/07	7,264,924	Methods for detecting bacteriophage MS2
09/04/07	7,264,783	Device and Method for Neutralizing Chemical Agents
08/28/07	7,262,414	Thermal luminescence surface contamination detection system
07/31/07	7,250,138	Method and system for detecting and recording submicron sized particles
06/26/07	7,235,355	Methods for Detecting Bacteriophage MS2
06/12/07	7,229,819	Non/Corrosive, Non/Caustic, Non/Flammable, Catalyst/Based Decontaminant Formulation
05/22/07	7,220,540	Methods for Detecting Bacteriophage MS2
03/20/07	7,194,395	System and Method for Hazardous Incident Decision Support and Training
03/06/07	7,186,877	Chemical Detoxification of Vesicants and Related Chemicals in Mobile Disposal Systems
01/02/07	7,157,562	Bioprocess for the Production of Recombinant Anti/Botulinum Toxin Antibody
12/19/06	7,150,778	Recirculation Jacket Filter System
10/31/06	7,129,094	Chemical agent simulant training composition
10/24/06	7,124,690	Smoke producing mortar cartridge
09/05/06	7,100,635	System and method for storage and mixing of solution that is not compatible for long-term storage in premixed formulation
04/18/06	7,029,853	Nucleotide sequences for detection of bacillus anthracis
04/04/06	7,022,289	Chemical and biological sampling device and kit and method of use thereof
03/07/06	7,007,690	Advanced chemical/biological crew mask
02/21/06	7,001,758	Microbial biodegradation of phosphonates
01/10/06	6,985,818	Air sampling method and sensor system for spectroscopic detection and identification of chemical and biological contaminants
12/13/05	6,974,197	Portable glovebox and filtration system
11/22/05	6,967,338	Micro UV particle detector
08/16/05	6,929,226	Twist lock mounting system
06/28/05	6,910,445	System and method for containment and testing of extremely toxic substances
05/24/05	6,897,032	Method for detecting G- and V- agents of chemical warfare and their degradation products
04/26/05	6,884,588	Nucleotide sequences for detection of bacillus anthracis
04/19/05	6,881,383	Explosive destruction system for disposal of chemical munitions
03/08/05	6,864,056	Method for detecting ribosome inactivating proteins
02/08/05	6,852,903	Decontamination of chemical warfare agents using a reactive sorbent
01/25/05	6,846,633	Nucleotide sequences for detection of bacillus anthracis
01/18/05	6,844,160	Nucleotide sequences for detection of bacillus anthracis

<b><u>Issue Date</u></b>	<b><u>Number</u></b>	<b><u>Title</u></b>
01/11/05	6,840,456	Injection valves
01/11/05	6,841,346	Methods for detecting bacteriophage MS2
01/11/05	6,840,456	Injection valves
01/04/05	6,838,277	Furthering the enzymatic destruction of nerve agents
12/07/04	6,826,783	Chemical/biological helmet
11/30/04	6,824,984	Nucleotide sequences for detection of bacillus anthracis
10/12/04	6,802,172	Particle aerosol belt
09/07/04	6,787,366	Microspot test kit and method for chemical testing
08/31/04	6,785,125	Force activated switch
08/10/04	6,773,928	Compositions and methods for enhancing bioassay performance
08/03/04	6,769,800	Collapsing and telescoping baffles for stirred vessels
07/27/04	6,766,744	Incendiary device
07/20/04	6,763,835	Chemical 'biological special operations mask
06/01/04	6,743,947	Electronically stable onium salts and electrolytes containing such
05/04/04	6,731,804	Thermal luminescence liquid monitoring system and method
04/20/04	6,722,182	Solid state vapor generator
04/20/04	6,723,891	Molybdate/peroxide microemulsions useful for decontamination of chemical warfare agents
04/20/04	6,722,182	Solid state vapor generator
04/13/04	6,719,130	Packaging system for a product provided by mixing two or more components
04/06/04	6,715,343	Portable glovebox and filtration system
04/06/04	6,716,450	Enhancing protein activity through nanoencapsulation
04/06/04	6,715,343	Portable glovebox and filtration system
03/09/04	6,702,982	Aluminum-lithium alloy
02/10/04	6,688,032	Rifle-launched non-lethal cargo dispenser
01/06/04	6,672,133	Biological classification system
01/06/04	6,672,217	Pyrotechnic incendiary grenade holding device
01/06/04	6,672,133	Biological classification system
07/29/03	6,599,733	Microbial biodegradation of phosphonates
07/15/03	6,594,000	Automatic Gain Control System for Use with Multiple Wavelengths
07/08/03	6,590,375	Device and method for detection and/or inspection of conductive particles using high voltage field
07/01/03	6,584,865	Absolute reference aerosol sampler
05/20/03	6,566,138	Chemical agent simulant training composition
05/06/03	6,558,487	Smoke generating compositions and methods of making the same
05/06/03	6,558,946	Automated sample processing for identification of microorganisms and proteins
03/25/03	6,537,382	Decontamination methods for toxic chemical agents
03/18/03	6,534,429	Multi-component material for uncooled thermal imaging and graphical method for the determination thereof
02/25/03	6,523,478	Rifle-launched non-lethal cargo dispenser
02/18/03	6,521,064	Pyrotechnic burster composition
01/28/03	6,512,355	Device and method for inspection and detection of a material by observing a high-voltage waveform produced by that material
12/10/02	6,491,872	Method and system for detecting and recording submicron sized particles
11/26/02	6,485,686	Method and apparatus for counting submicron sized particles
10/22/02	6,469,145	One-step purification process for organophosphorus hydrolase enzyme
10/15/02	6,464,392	Tactical thermal luminescence sensor for ground path contamination detection
09/10/02	6,448,016	Nucleotide sequences for detection of Bacillus anthracis

<b><u>Issue Date</u></b>	<b><u>Number</u></b>	<b><u>Title</u></b>
08/27/02	6,441,387	Biological aerosol trigger (BAT)
08/06/02	6,428,122	Portable glovebox and filtration system
07/16/02	6,420,181	Field microspot test method for on-site chemical testing
07/02/02	6,412,945	Non-uniform mask lens
07/02/02	6,412,416	Propellant-based aerosol generation devices and method
06/25/02	6,408,915	Apparatus for monitoring the cure profile along a pultrusion die
06/18/02	6,406,660	Method for producing polymer matrix composites having low volume percentage of reinforcement fiber and controlled thickness
06/11/02	6,403,329	Methods of detecting methylphosphonic compounds
05/14/02	6,389,408	Neural network systems for chemical and biological pattern recognition via the Mueller matrix
11/27/01	6,323,633	Device and method for detection and/or inspection of conductive particles using high-voltage field
11/13/01	6,316,143	Electrode for rechargeable lithium-ion battery and method of fabrication
07/24/01	6,266,428	System and method for remote detection of hazardous vapors and aerosols
06/12/01	6,245,957	Universal decontaminating solution for chemical warfare agents
05/29/01	6,238,866	Detector for nucleic acid typing and methods of using the same
05/08/01	6,228,657	Environmental material ticket reader and airborne hazard detection system
05/01/01	6,224,898	Antimicrobial dendrimer nanocomposites and a method of treating wounds
04/10/01	6,212,989	High pressure, high temperature window assembly and method of making the same
03/13/01	6,200,356	Lithium ion secondary electrochemical cell and a method of preventing the electrochemical dissolution of a copper current collector therein
02/20/01	6,191,696	Alarm system for hand-held chemical monitor
01/23/01	6,176,239	Advanced chemical-biological mask
01/23/01	6,177,266	Rapid identification of bacteria by mass spectrometry
01/23/01	6,176,239	Advanced chemical-biological mask
01/16/01	6,174,732	Analytical methodology for qualitative and quantitative determination of chemical agent vapor
01/09/01	6,170,234	Solid particle aerosol belt and dissemination method
12/12/00	6,160,255	Laser-based photoacoustic sensor and method for trace detection and differentiation of atmospheric NO and NO.sub.2
12/12/00	6,158,429	Hood respirator for protection against biological hazards
10/31/00	6,138,766	Apparatus for preparing and disseminating novel fire extinguishing agents
10/17/00	6,132,356	Portable system for vapor, aerosol or airborne hazard suppression of hazardous environmental spills
09/19/00	6,120,238	Method of maneuvering a slipsheeted load and drawbar device therefor
08/29/00	6,109,185	Anti-armor projectile with autonomous, attachable, precursor warhead
06/27/00	6,080,566	Enzymatic detoxification of organophosphorus compounds
06/20/00	6,076,671	Solid particle aerosol belt and dissemination method
06/13/00	6,074,971	Ceramic ferroelectric composite materials with enhances electronic pro
06/06/00	6,071,555	Ferroelectric thin film composites made by metalorganic decomposition
05/16/00	6,063,719	Ceramic ferrite/ferroelectric composite material
05/09/00	6,060,710	Infrared Mueller matrix detection and ranging system
04/25/00	6,054,310	Continuous Fed-Batch Degradation of Decontaminating Solution 2 (DS2)
04/18/00	6,051,189	System and method for detection, identification and monitoring of submicron-sized particles
04/11/00	6,047,644	Propellant based aerosol generating device and method of use
03/28/00	6,043,469	Tailored mesh susceptors for uniform induction heating, curing and bonding
01/25/00	6,017,750	Hydrolysis and biodegradation of the chemical warfare vesicant agent HT
12/28/99	6,007,648	Liquid explosive composition
11/30/99	5,994,067	Method and kit for rapid detection of toxins and bacteria
11/09/99	5,980,149	Sampling arm coupler

<u>Issue Date</u>	<u>Number</u>	<u>Title</u>
10/26/99	5,973,464	Intermittent automatic windshield wiper controller
10/12/99	5,965,823	Specimen holder for thermal mechanical testing machine
10/05/99	5,963,777	Hypereutectoid and hypoeutectic binary uranium-vanadium alloys
09/28/99	5,957,131	Biological warfare mask
09/14/99	5,953,679	Method for recovery and separation of trinitrotoluene by supercritical
08/17/99	5,939,663	Method for dispersing a jet from a shaped charge liner via a multiple
08/17/99	5,939,229	Method for determining chemical cross talk or isotopic scrambling induced by analytical procedures
08/10/99	5,935,862	Microspot test methods and field test kit for on-site inspections of chemical agents
08/10/99	5,934,380	Apparatus for preparing and disseminating novel fire extinguisher age
08/03/99	5,932,449	Detection of botulinum toxin
07/27/99	5,928,927	Enzymatic detoxification of organophosphorus compounds
06/29/99	5,918,254	Low concentration aerosol generator
05/25/99	5,906,946	Device and process for detecting discriminating no and no2 from ot
03/23/99	5,886,256	Ice detection sensor
03/02/99	5,876,960	Bacterial spore detection and quantification methods
02/02/99	5,866,073	Detector of halogenated compounds based on laser photofragmentation/fragment stimulated emission
01/27/99	5,711,916	Air-transportable modular analytical laboratory
01/26/99	5,864,767	Chemical biological explosive containment system
01/05/99	5,856,616	Hand-held temperature programmable modular gas chromatograph
12/08/98	5,846,893	Thin film ferroelectric composites and method of making
11/10/98	5,834,477	Opiate analgesic formulation with improved safety
10/20/98	5,826,214	Hand-held probe for real-time analysis trace pollutants in atmosphere
09/29/98	5,813,278	Projectile grenade launching system tester
09/22/98	5,811,059	Automated, on-demand ion mobility spectrometry analysis of gas chromatograph effluents
08/11/98	5,792,976	Rapidly deployable volume-displacement system for restraining movement
06/09/98	5,763,737	Acid-catalyzed oxidation of S-(2-diisopropylamino) ethyl methylphosphonate
05/26/98	5,756,995	Ion interface for mass spectrometer
03/24/98	5,730,765	Super toxic analytical glove box system
03/17/98	5,728,927	Controlled multi-purpose chemical agent vapor generator system
02/17/98	5,719,323	Method of measuring the decomposition of a gaseous material under controlled temperature and time conditions
01/20/98	5,710,358	Oxidative detoxification of phosphonothiolates and phosphonothioic acids
01/13/98	5,708,503	Panoramic infrared-imaging spectroradiometer with reverse phase modulation beam broadcasting
12/30/97	5,703,276	One-window cell for testing passive remote vapor detectors
12/23/97	5,700,646	Comprehensive identification scheme for pathogens
12/16/97	5,698,812	Thermite destructive device
11/18/97	5,689,038	Decontamination of chemical warfare agents using activated aluminum oxide
10/28/97	5,682,010	Method for creating a one way visible screening smoke
10/14/97	5,678,243	Process for the in-situ detoxification of aminoalkyl phosphonothiolates by hydrolysis
09/30/97	5,671,869	Fiber chaff disseminator
09/09/97	5,665,272	Multifuel combustion engine and use in generating obscurant smoke
08/26/97	5,660,173	Frustum layered canister
08/19/97	5,659,391	Earth monitoring satellite system with combined infrared interferometry and photopolarimetry for chemical and biological sensing
08/05/97	5,654,144	Detection of Yersinia
07/22/97	5,649,466	Method of rapidly deploying volume-displacement devices for restraining movement of objects

<u>Issue Date</u>	<u>Number</u>	<u>Title</u>
05/20/97	5,631,469	Neural network computing system for pattern recognition of thermoluminescence signature spectra chemical defense
05/06/97	5,627,054	Competitor primer asymmetric polymerase chain reaction
02/25/97	5,606,111	Apparatus and method for measurement of offgassing rate
10/29/96	5,569,580	Method for testing the toxicity of chemicals using hyperactivated spermatozoa
10/22/96	5,568,186	Focal plane filtered multispectral multidetector imager
09/24/96	5,559,284	Method for determining elongational viscosity and dynamic surface tension in liquid solutions
03/01/94	5,290,707	Method for detection of microorganisms
12/31/91	5,076,965	Method of generating monodispersed aerosols for non-destructive gas mask filter testing
10/22/91	5,059,349	Method of measuring the efficiency of gas mask filters using monodispersed aerosols
10/22/91	5,059,352	Method for the generation of monodispersed aerosols for filter testing
09/04/90	4,954,320	Reactive bed plasma air purification
02/21/89	4,806,316	Disposable device for use in chemical, immunochemical and microorganism analysis
06/28/83	4,389,947	Blast Suppressive Shielding
09/07/82	4,347,796	Blast Suppressive Shielding
04/27/82	4,326,468	Blast Suppressive Shielding
04/20/82	4,325,309	Blast Suppressive Shielding
04/13/82	4,324,858	Stabilization of cholinesterase, detector kit using stabilized cholinesterase, and methods of making and using the same
02/03/81	4,248,342	Blast Suppressive Shielding