

# Gary Vesperman's List of Inventions

## Energy

layered metal foil semiconductor power device  
ball lightning and self-confined thermonuclear reaction  
ball lightning explained as a stable plasma toroid  
micro-fusion reactor employing stable high-density plasma electron spiral toroids in neutron tube  
electrostatic charge converter 'hydro-magnetic dynamo'  
more on the remarkable potential of the torsion field for energy applications  
the magnetic force is faster than light  
Kiev, Ukraine's I.N. Frantsevich Institute of Problems of Materials Sciences (IPMS) thorium-232 energy accumulator  
IPMS advanced solar photo-voltaic crystal lattice cells  
Gravitational Systems pumps in cattle runway use weight of cattle to pump water  
Gravitational Systems piezoelectric crystals embedded in road pavement generate DC electricity  
Snaper low-cost propellerless wind turbine  
electronically shaded photo-voltaic glass  
Casimer-effect self-charging battery – three versions  
Borrowdale's motor/generator  
plasma solar panel  
hydrosonic pump  
Davis tidal turbine  
colliding plasma toroid fusion  
GeoExchange heat pump uses heat of earth or lake water to heat and cool a structure  
high-density charge cluster device  
hybrid cold fusion hydrogen reactor  
electrino fusion power reactor  
rotating and solid-state magneto-voltaic generators  
Clem over-unity vegetable-oil engine  
super-steam technology  
uranium reactor in pail; available on E-Bay for \$5,000,000  
gas-phase catalytic fusion  
wind-solar hemisphere power station  
LUMELOIDTM light-polarizing photovoltaic thin film  
LEPCONTM femto diode photovoltaic glass sheet  
POWR/MASTRTM is high-efficiency industrial engine fueled by natural gas, propane or butane  
Tesla turbine combustor  
buried contact multijunction thin film solar cell  
fiber-based cold fusion power cell  
solar hydrogen producer  
Hawkings' generator of cold electricity  
double-exposure flat-plate solar collector  
low-temperature phase-change engine  
Muller's magnetic motor/generator  
hyper-cap E-converter  
cosmic induction generator  
aluminum-water fueled hydrogen producer  
switched energy resonant power supply

## Energy (Cont'd)

laser-induced fusion in ultra-dense deuterium  
maximum velocity wind turbine  
converter of zero-point electromagnetic radiation energy to electrical energy  
2-to-1 cylinder noble gas power plant  
cold operating start technology for 100 miles/gallon automobiles  
Boyce hydrogen carburetor  
continuous charger for batteries – flux shifter  
magnetically powered rotary unit  
DiMatt Wankel closed-cycle freon/rotary turbine and generator  
fluid thrust diode  
Russian electrochemical energy source  
high-voltage injection of rain water into cold fog  
SPARTEC vacuum triode amplifier  
portable power supply solar unit for hot water for Sterling engine  
advanced Stirling cycle power unit  
vapor generator  
gas-generating BingoFuel Reactor  
remediating nuclear waste with electron-captured protons with significant net energy gain  
Brown nuclear battery  
Nova-Neal compression engine  
Nova phase change engine  
Brinsbury hydrogen steam rotary engine  
gate impulse turbine  
flux capacitor  
pressurized vapor driven rotary engine  
self-restoring mechanical oscillator engine  
energy buoyancy source  
reactionless AC synchronous generator  
pulsed capacitor discharge electric engine  
zero point energy modules  
electrostatic frequency converter  
Swiss M-L converter  
'negative' resistance in carbon fibers  
neutrino voltaics  
plasma biomass gasification  
Moe-Joe spherical orgone energy accumulator significantly increases vehicle mileage  
Electrodynamic field generator  
Stirling Energy Systems utility solar  
ENECO solid-state chip converts heat to  
W2 Energy Birthing Affordable, Renewable Petrol  
SolarCube™ by Green and Gold Energy  
Cool Earth Solar – inflatable solar concentrator  
EEStor Ceramic 'Battery' – 'energy storage' ultra-capacitor device made from ceramics  
nanotube supercapacitor battery  
multifactorial hydrogen reactor  
preloaded ZrO<sub>2</sub>-PdNi-D nanostructured cold fusion/lattice assisted nuclear reaction quantum electronic devices  
DayStar Technologies' Silicon-Free Solar Cells – unique metal foil

## Energy (Cont'd)

Sines reluctance generator uses thin film superconductivity, vortices and magnetic flux gates  
Nelson Scientific's device captures free electrons in a vacuum for electricity  
Solar Hydrogen Energy Corporation – process converts landfill methane into clean hydrogen  
Enviromission Solar Towers are like an inverted funnel  
bladeless turbine with wide range of waste-heat-harnessing applications; produces methanol  
cadmium telluride thin film solar PV modules  
thermoelectric generator  
salt water flow cell  
radiation-free fusion process fuses boron-11 with a proton; results in carbon-12.  
offshore wind technology  
Kokhala: Electricity from low-temperature heat 120+ degrees and storage  
StarTech's waste-to-energy plasma arc technology  
Rauen superclassical ambient heat engine based on Proell effect  
StarRotor continuous-cycle engine could replace internal combustion engine  
plasma focus fusion may be far more feasible and less expensive approach to hot fusion  
Kanarev's electrolysis process enables water to be main power  
hydrino process generates light, power, plasma, and a vast class of new compositions of matter  
vanadium redox battery is low cost and environmental impact; superior deep cycling life and can  
be mechanically refueled in minutes  
Blue Energy's highly efficient underwater vertical-axis windmill-like generator  
Zotloterer gravitational vortex mini-power plant is simple to construct, has a turbine efficiency of  
80% but is safe for fish due to low turbine speed. The gravitational vortex hydro technology  
can be applied in rivers with water drop as little as 0.7 meters.  
Flynn Research magnet power motor/generators; flux fields within core increase motor output by  
3.5x or more. Possible solid-state generator applications. Also in all future motors.  
Verdant Power low-impact kinetic hydropower solutions harness energy from rivers and tides  
Valentin Technologies 130 MPG car seats 5 passengers car, free-piston hydrostatic powertrain  
vertical axis wind turbine creates pull on the back side for 40%+ efficiencies, doesn't kill birds  
Correas' pulsed abnormal glow discharge reactor produces about 1 kW DC electricity  
Skystream's wind generator designed specifically for the grid-connected residential market  
Cyclone Technologies Schoell Cycle Engine is external combustion engine; uses any fuel  
Engineair's ultra-efficient rotary compressed-air motor  
Hydristor converts vehicles into green hybrids with variable vane hydraulic pump/motor  
permanent magnetic levitation wind power generator 20% more efficient wind turbines  
MotorWind's plastic micro wind turbine brings generation cost down to around 1 cent/KWH  
A123 Systems lithium-ion battery replaces cobalt oxide in lithium-ion cells with nanophosphate  
gun engine is environmentally friendly and transmission-free; 92% efficient; based on fired bullets  
massive yet tiny internal combustion engine features multiple firings in one cycle to give 40  
times higher power-to-weight ratio, low parts count, low maintenance, high efficiency  
Quasiturbine four-chamber Wankel-like engine burns fuel using photo-detonation  
Plurion Systems zinc/cerium redox battery has highest power density; 250kW - 5MW  
Steorn all-magnetic motor  
sea wave power plants can generate electricity for 2 cents per kWh.  
Nansulate Paint insulates and generates electricity from thermal difference between inside and  
outside temperatures  
Laddermill generator is high-altitude series of wings or kites connected to ground via cable  
MDI Air Car uses compressed air to push its engine's pistons, 68 mph tops, range 125 miles  
AquaBuOY generator is competitive with onshore and offshore wind farms and fossil fuels  
Vesperman's List of Inventions

## Energy (Cont'd)

Manchester (UK) Bobber is patented new wave energy device  
Papp's noble gas engine utilizes nuclear process to generate tremendous energy  
Torbay's magnetic transgenerator uses repelling power of magnets  
thermionic solar cells use amorphous diamond nanostructures; 50% efficiency; half cost of silicon thermal  
hydraulic engine generates from low heat input 180°F; silent; solar, geothermal or waste heat  
Norsk Hydro floating wind turbine captures off-shore winds in deep water; no footing needed  
flexible very thin film photovoltaic solar panels consist of unique metal alloy  
very quiet O'Conner wind turbine can operate at low speeds while tolerating high wind speeds  
Neo-AeroDynamic Wind/Water Turbine employs lift on the leeward edge, harnessing turbulence  
low-impact hydrokinetic turbine harnesses tide and river flow without harming fish; no dam needed  
Ecowatts Thermal Energy Cell is an electrolysis based energy cell that converts electrical power into  
heat at an efficiency significantly greater than that of a conventional immersion heater.  
Tectane's Aquahol is made from sorghum; water-ethanol ups mileage by 20-40%  
converting abandoned oil wells which contain hot water to geothermal plants  
SkyBuilt uses shipping containers as foundation for renewable off-grid energy systems  
Magenn's Floating Wind Generators use inflatable, rotating balloon  
Matteran Energy produces electricity and refrigeration from 150 degrees F water  
D2Fusion has cold fusion home heaters and electricity generators  
Kanzius radio wave generator splits water into hydrogen and oxygen causing the oxygen to burn RF  
Nanometer-scaled generator produces direct current with mechanical energy from ultrasonic waves  
Australian process makes ultra-thin silicon solar cells  
Milkovic two-stage mechanical oscillator leverages secondary oscillations for 12-to-1 power gain  
closed loop ammonia turbine-powered generator uses solar and other forms of low-temperature heat  
Searl effect generator cheaply and safely produces electricity without fuel, pollution, friction, or noise  
RSI Silicon debuts a far more inexpensive method of producing solar grade silicon  
low-cost inflatable electric car is announced as world's first crash-proof, long range, flat-pack vehicle  
PowerPlus retrofit water overspray for gas turbines cuts emissions 40%, saves fuel and ups capacity  
Crower's six-stroke engine adds two strokes to inject water which turns to steam and cools engine  
MagneGas plasma arc flow reactors process liquid wastes into clean burning fuel known as magneGas  
thermoacoustics converts heated gas into sound waves to cook, cool, and/or generate electricity  
pump-less, hydraulically operated, super-high-pressure diesel injector - 30% more power with less fuel  
cylindrical Joe cell harnesses orgone energy to power a vehicle with no fuel line connected  
Magnetronic motor uses small magnetic force to control large magnetic force; retrofit cars  
BiosFuel directly uses water for fuel directly; bypasses hydrogen. Catalyst mixes water with waste oil  
photosensor measures daylight to send signal to microcontroller that adjusts power for lights  
Whisson vertical windmill cools air passing through whirling blades; then traps water from condensate  
hydrogen boost technology improves vehicle fuel economy  
bi-directional energy tower exploits differences in air density and earth density for passive solar power  
two-piston combustion engine drives magnets by induction coils; generates electricity, not torque  
Green steam engine runs on very low steam pressure and volume, low cost, lightweight, few parts  
Revetec cam-drive engine uses pair of counter-rotating scissor cams, triples torque  
Edwards heat pump is like solar hot water heater without collector panels, very efficient  
WhalePower wind turbine has blades that mimic humpback whale's flipper, capturing more wind  
pyramidal antenna transfers atmospheric electrostatic discharge impulses into circuit; converts to AC  
thin, light, flexible polymer-based battery packs more power than standard alkaline battery  
Tesla wireless power and free energy from ambient  
Golka high-powered tesla-type energy tower

## Energy (Cont'd)

DePalma N-1 homopolar generator  
Puharich method and apparatus for splitting water molecules  
Schmidt hydraulic wind turbine  
hydrogen fuel system kit  
over 30 methods of producing hydrogen as fuel for automotive, home, industrial and scientific uses  
novel aqueous electrolysis methods for converting water into hydrogen and oxygen  
Rasmussen water-to-energy electrolysis process  
Boyce brown's gas carburetor  
Meyer water fuel cell-powered car  
solar-produced hydrogen turned into liquid hy-fuel  
engine runs on water  
motionless electromagnetic generator  
Frank Richardson magnetic electrical generator  
Frank Richardson bladeless steam turbine  
advanced form of plasma-discharge energy  
thorium powerpack  
IPMS thorium-227 electricity generator  
Spiteri water pump  
magnatron – light-activated cold fusion magnetic motor  
Johnson permanent magnet motor  
Hendershot magnetic motor  
8-kilowatt battery-popper motor  
Hitachi magnet motor  
vacuum triode amplifier  
'school girl' motor and battery energizer  
Model T Ford generator with magnets added  
Takahashi magnetic Wankel motor  
Kawai motive power generating device  
Grander magnetic motor  
John Richardson 90+ mpg carburetor  
John Richardson atomic isotope generator  
Fish/Kendig variable venturi carburetor  
Belland 100 mpg carburetor that runs on gasoline fumes  
Brandt 90 mpg carburetor  
Myers efficient carburetor  
Wiseman fuel savers  
Ogle 100+ mpg oglemobile  
Pogue 200+ mpg carburetor  
Caggiano 100+ mpg fuel implosion vaporization system  
Bbolon automobile steam engine  
magnetic vortex hyper-ionization device  
vibrating energy source  
Stewart cycle heat engine  
flywheel/dual hydraulic cylinder  
Christopher Bird/Walter has list of 48 suppressed energy inventions  
Schauberger jet-turbine  
standalone water-based electricity generator

## Energy (Cont'd)

Warwick's Ampliflaire efficient wood-burning stove  
Idaho inventor's advanced zero-point energy device  
Hudlow method of converting garbage and tires to gasoline, etc  
Newman energy machine  
Bill Jenkins knows of free energy machine  
Volcheck engine powered by gas with unusual expansion properties  
IPMS thermal electric cooling devices  
Timothy Trapp's 127 energy technologies  
Diggs liquid electricity engine  
hyper-cap e-converter  
Moray radiant energy pump/electricity generator  
small electrical power converter  
Yater heat-to-electricity converter  
Trombly-Kahn closed-path homopolar generator  
Trombly-Farnsworth solid-state oscillating electromagnetic system  
Reich orgone energy motor  
using low-grade heat, such as the heat from your hand to make electric power  
ambient thermal energy 'power' for single family home, excess power sold to local utility  
H2HyPod producer of hydrogen for internal combustion engines  
water-fueled internal combustion engine with Garrett electrolytic carburetor  
metamatter for revolutionary energy sources and rocket engines  
motionless electromagnetic generator  
Q-cell  
WIN zero point electrical energy converter  
vortical energy  
conversion of aluminum internal combustion engine to magnetic motor  
motor/generator with electro-magnetically separated magnetic poles  
capacitive step-down transformer is a less costly, safer substitute for inductive transformers  
Sola-Q self-focusing omni-directional solar cooker  
Aaftaab furnace  
super steam technology  
flying saucer engine  
electron spiral toroid Spheromak micro-fusion reactor (space launch costs reduced by 95%)  
induction coil coating increases generator output by one-third  
wind turbine conversion  
nano-membrane pyro-gasification process  
high-temperature incinerator  
phase-conjugate-resonator Tesla coil  
direct energy conversion  
Casimer-layered electrodynamic generator  
thin-film power generating disks  
Testatika free energy machine  
high-density charge clusters technology  
energy catalyzer  
cold fusion reactor with electric-to-thermal energy conversion  
self-recharging energy generating gel cells  
MulTask dome multiple-output omni-directional solar power generator

## Energy (Cont'd)

high-expansion magnetohydrodynamic liquid metal generator  
Power Chip thermo-ionic generator  
double-exposure flat plate solar collector  
protium H+ stoichiometric hydrogen gas generator  
closed-loop phase-change gas system  
self-recharging capacitive discharge thermal generator  
ceramic electrodynamic wafer  
solid-oxide fuel cell  
magnetic drive generator  
Don Smith's generator  
OASIS electric power unit  
Ergenics metal hydride heat engine converts solar hot water into electricity for less than 1¢/kwh

## Advanced Self-Powered Electric Vehicle

solid-state Quantum High-Energy Density Storage or Retrieval (QUENSORTM) device  
nickel-iron and new lead-acid battery  
NiMH batteries; solid-state lithium-ion batteries  
IPMS crystal lattice energy storage/battery device  
Ukrainian capacitor-like battery  
Richardson blade-less tesla-type steam turbine  
closed-cycle freon/rotary turbine  
compressed air-driven air-conditioner/heater  
advanced computer-controlled suspension system  
low-temperature diamond or titanium nitride coating of vehicle parts  
AuroraTek's self-charging electric bike  
self-charging electric vehicle  
switched reluctance motor  
Stanley A. Meyer's water fuel cell-powered car  
water engine  
water-fueled internal combustion engine with Garrett electrolytic carburetor  
Brown's gas carburetor  
water-to-energy electrolysis process  
noble gas plasma engine  
Clem over-unity vegetable oil engine  
multi-chambered rotary compression engine  
closed-cycle Freon/rotary turbine, conical vortex heat exchange engine  
four environmental heat engines  
Volcheck: engine powered by gas with unusual expansion properties  
isotopic semiconductor batteries  
liquid electricity engine  
90+ mpg carburetor  
salt water flow cell car  
conversion of aluminum internal combustion engines to magnetic motor  
Muller motor/generator  
perm-mag motor  
fuel saver that nearly doubles miles per gallon of gasoline

## Advanced Self-Powered Electric Vehicle (Cont'd)

Walden amplified magnetic motor  
other over-unity magnetic motors  
orgone energy motor  
IPMS thermal electric cooling devices  
Cool Chips thermo-ionic refrigerator  
torsion field radio without dropouts over all of Planet Earth  
(unibody) basalt/carbon fiber foam body/frame made with IPMS high-temperature gas plasma detonator  
Seanic View's electric DC motor component which greatly increases efficiency  
one of more than a dozen candidate on-board fuel-less battery chargers.  
electric vehicle power source  
Bedini battery charger  
catalyst induced hydrino transition cell  
Maxwell Technologies ultra-capacitor  
nickel-iron battery  
Edwin Baldwin's super-capacitor  
melanin battery-generator  
nickel metal hydride batteries  
solid-state lithium-ion batteries, liquid metal battery  
John Hutchison's self-charged battery  
endless electric field generator  
Brown nuclear battery  
Joe's orgone energy cell  
Moe-Joe orgone energy cell  
Yasunori Takahashi's ultra-capacitor  
thin-film electrolytic cells  
torsion field energy storage applications  
graphene polymer battery  
motive power generating device

## Materials

torsion field makes possible exotic new materials  
torsion field geo-physical devices can be calibrated to locate mineral deposits, water and subterranean structures  
diamond semiconductor devices (spin-off from aforementioned low-temperature diamond coating)  
IPMS micro-channels and filters  
IPMS-Chernovitsky super ceramics  
IPMS high-temperature gas plasma detonator  
IPMS-Kiev and Arzamas-16 super magnets  
electric field permanently trapped in material  
manufacture of synthetic diamond  
manufacture of synthetic sapphire and ruby  
high-temperature material has low heat transfer, lightweight, insulates more than asbestos, less toxic  
transparent polymer  
ultrasonic energy blends and hardens gel of polyester resin and water into very hard and strong sheets  
unusual single crystal structure oriented plastic 1.1 micron film  
polarizing-analyzing filters

## Materials (Cont'd)

ultra-purification of semiconductors such as silicon, germanium, copper, zinc, tin, etc  
Novolac resin, used to "pot" or encapsulate integrated circuits  
non-linear and linear optical crystals for optical communications, etc  
edge-emitting luminescent crystals are new light sources, for communications, lighting, medical uses  
method for "launching" soliton-like forms  
super-conductive manganite substrates  
low-cost Teflon [tm] coating on glass, metal and wood  
amplified ionization filtration technologies non-linear crystals for opto  
electronics (optical transistors) for optical fiber communications switching  
metallizing is hard coating in liquid bath on nearly all metals, silicides,  
diamonds, carbides, nitrides bearing coating ...basically doubles the price, minimum  
torsion field photographic applications which are capable of imaging the interior of virtually any  
substance or structure without X-rays

“Diamonds... of several types made in the laboratory: a] diamonds and cubic boron nitride All of these are for industrial applications, not gems. We are talking about grit...small crystals. b] Diamond films... thin layers for "windows" in, on and for satellites, X-ray detectors, X-ray tubes and source tool emitters radioactivity detectors – many, many kinds. The big hit: Diamonds ...for heat sinks for electronics applications ... Diamonds to be used as the king of semiconductors and detectors. We are not talking about gems... or pretty and fat pieces... these are VERY thin films ... and fine dies, blades... tiny expensive pieces. Very precise and very pure metals, non metals, and compounds. NEW: there are several types of 'detectors' and diode materials that are "new" and unusual... many come from the era of 1895 to 1935 and out to 1957. But, today, no one even knows of them. Ask ANY electronics person if I came to him and handed a thing that looked like a resistor ... with a ceramic and glass hermetically sealed opaque package... and he or she hooks it to a meter or oscilloscope... no markings on this thing.... and I hold it up to a light bulb... and read FIVE VOLTS or briefly hold a match or flame of a cigarette lighter under it... for less than 1/10<sup>th</sup> second and get a pulse of slightly OVER five volts? What is it? I can produce these for you now. This is the very tip of the list. There is an entire ARRAY of very valuable devices that do nothing but switch, control and/or modulate light... the light used in communications. These are simply made of glasses, and clear minerals of various types. The last companies of these types... small ones have been being bought up by the IBMs and Ciscos for from 10 to 80 millions of dollars. Check the stories of businesses involved with the optical aspects of communications by light. Anything "fiber-optics". Fiber switchers, routers, cross-point switches... the list goes on. All of these types of signal path devices are in use now... but they are not anywhere near enough. The market is projected in the billions in the next 2 and 3 years. And it will go up.”

## Communications and Computers

torsion field communications  
harmless torsion field cell phones would offer instant wideband communications with other torsion  
field cell phones anywhere on Planet Earth without dropouts.  
torsion field remote monitoring devices  
torsion field long-range sensors  
torsion field astrophysical monitoring and metering devices  
three-dimensional holographic television  
wireless video conferencing  
dialog language replacement system  
astronomical methodologies for acquiring information from sun activity, sun spot activity, meteor activity,  
photosphere and magnetosphere activity, and ionosphere activity. These activities can and do cause  
disruption of electrical power. The methods can warn of power surges.

## Communications (Cont'd)

method for making several types of novel antenna including but not limited to antenna at distance off the ground with no tower, active antennas, physically small yet electrically large antennas, and invisible antenna  
methods of light manipulation for communications, such as internet switches and similar using water to make light from fluorescent lamp  
magnetic maser systems  
new methods of making light  
US Patent 5842002: Computer virus trap  
highly directional and inexpensive gravimetric sensor; detects objects in space and plots their position  
computer chip cooling technology enabling the world's fastest personal computers  
methods of communications  
new method of making a length of cable a sensitive mechanical or microphonic transducer  
new method of producing miniature low-cost tagging RF transmitters for Bluetooth, etc

## Security

low-cost ultra-low frequency accelerometer, used in many industries for different uses from detecting earthquakes to setting off air bags in automobiles.  
sensing of interaction of near electric field evanescent waves with matter and other fields  
methods of seeing properties of solid matter for many uses. Images of the insides of devices and packages can be made as in airport security and to detect explosives  
sensing of concealed weapons such as hidden pistols  
improved ballistic armor is new kind of "bullet proof vest" to stop rifle bullets and knife  
3-D visualization of electronic waveforms is new method of "seeing" electronic signals. One application is detecting buried non-metallic or "plastic" anti-personnel land mines. (Mike Windell also has a method of detecting metallic land mines and other metallic objects up to 60 feet deep.)  
novel magnetic ultra-low frequency sensing and analysis of mechano and magneto seismic activity

## Health

Genesis electromagnetic frequency generator  
zappers  
restoring an organism to match its genetic template  
electronic brainwave tuner for permanent cure of substance addiction  
bio-energetic spheres  
electrolyzed oxidizing water  
ultimate system modeling software with cardiology as one application  
theory of an anti-proton source and/or anti-neutron source, and Dotto ring for anti-aging  
reversal of the order to disorder arrow in the second law of thermodynamics  
(Both of these methods require large, high-energy linear accelerator facilities. For 50 million dollars all aging, disease, and decay processes could be reversed in a one-mile radius)  
defibrillator technology which uses no batteries  
acquisition of biological signals by means of optical methods as opposed to bio-potential methodologies, for methods of sensing brain waves and heart beat but needs no electrical wires. Can help in preventing sudden infant death and also can help doctors in many areas of health.  
US Patent 5724982: Apparatus and method for measuring fluid flow (such as inside blood vessels)  
US Patent 5439003: Apparatus and method for measuring fluid flow (such as inside blood vessels)

## Health (Cont'd)

virtual telemedics system  
torsion field dental imagers would bypass the harmful effects of X-ray dental imagers  
novel method for side tone training of professional singers and for helping hearing impaired

## Agriculture and Technical Solutions to Water Shortages

atmospheric water generation with post-processing units added to air conditioners and refrigeration units  
world's richest mineral fertilizer  
aquaponic food factory  
etheric weather engineering  
OASIS machine produces water by flowing air over a surface colder than the air's dew point temperature  
vapor generator 1  
snow vaporization  
hydrosonic pump  
water purification and pest control with electrical coils  
oil viscosity  
soil decontamination  
vapor generator 2  
air well  
Spiteri water pump  
primary water  
Saltech's dynamic vapor recovery with zero discharge of brine  
massive freshwater reserves under the ocean  
solar-powered Watly provides internet, energy, and drinking water  
graphene desalination membrane  
NanoCeram water purification technology  
Archimedean desalination

## Waste Treatment

Brac Systems recycles and filters gray water from showers and laundry for toilet flushing  
high-temperature incinerator  
Korell sewage treatment method  
hydro-cavitator  
soil remediation system  
solid waste recovery  
Hutchison-Lazaryan radio/audio frequency generator for cleaning oil-polluted ocean water

## Radioactive Waste Treatment

theory of an anti-proton source and/or anti-neutron source  
'refresher-regenerator' reverses the order-to-disorder arrow in the second law of thermodynamics  
Canadian method neutralizes radioactive waste using an esoteric technology  
Purdue U patent describes relatively inexpensive way of getting rid of radioactive material  
collective ion accelerator treats both solid and liquid nuclear waste

## Radioactive Waste Treatment (Cont'd)

Hawkings' generator makes yard-long white spark of cold electricity several inches in diameter; substances inserted in spark sometimes transmute to heavier elements  
dematerialization devices A, B, C and D using highest powered positive ions ever  
photo-deactivation using gamma rays  
implosion machine is electric arc welder modified to duplicate nature's ball lightning  
Barker invented easiest, most effective, and least messy method for remediation of radioactive waste  
Dr. Ronald Gillembaro's method of neutralizing waste  
combine Brown's gas with bucking magnetic fields inside a plasma ball  
transmutation of low-level nuclear waste into glassy substance with super high voltage  
Searl effect generator-powered anti-gravity spacecraft for one-way trip out of solar system  
Hamel's gravito-magnetic device-powered anti-gravity spacecraft for one-way trip out of solar system  
Russian process uses liquid lead bismuth to trigger transforming in the form of neutrons  
96% reduction of radioactivity by welding with Brown's gas; further reduction is possible by utilizing liquefied Brown's gas  
accelerator-driven transmutation of waste  
Brown's gas-metal matrix process  
photoremediation  
Wilhelm Reich's oranur effect method can denaturize radiation sources  
ZIPP fusion process  
RIPPLE fission process  
low-energy nuclear transmutation electrolytic cells  
plasma induced/injected transmutation  
Kervran transmutation reactions in biological systems  
recovery of uranium from incinerated low-level radioactive waste using super-critical CO<sub>2</sub>  
plasma gasification melting converts radioactive waste into inert material and clean energy  
e.coli cleans up nuclear waste cheaply, efficiently – Birmingham University  
compact low-energy nuclear remediation with ultra-low momentum neutron generator  
methods of influencing radioactivity decay  
geomelting can encase nuclear waste in glass that is harder than concrete and lasts 200,000 years  
destroy radioactive waste with fusion-fission hybrid reactor  
ultra-low momentum neutrons produced by low-energy nuclear reactions for transmutation  
Radha Roy's process transmutes unstable isotopes to stable ones by knocking out the extra neutrons by bombarding them with photons (produced as x-rays) in an electron linear accelerator  
DOE's deep underground burial of radioactive waste at cost of \$150 billion  
DOE opposes radioactivity neutralization to preserve source of bomb-grade uranium and plutonium  
Santilli's certain resonating means which stimulate the decay of nuclei which are naturally unstable  
entombment of Fukushima reactors – Use 3D/4D printing to build entombments of the Fukushima reactors in layers of hemp concrete, lead, and tungsten with a hemp plastic exterior  
French vitrification program  
ceramic wasteforms – 'synthetic rock'  
environmental heat engines for emergency nuclear fuel cooling  
controlled disturbance of aether density influences radioactivity decay  
radioactivity of any radioactive material can be reduced by placement in artificial gravity field.  
large finned containers buried in deepest ocean trenches  
remediating nuclear waste with electron-captured protons with significant net energy gain  
transmutation with lasers

## Radioactive Waste Treatment (Cont'd)

flame-free incineration of radioactive waste in a catalyzer

list of 60 patents for transmutation of radioactive elements to nonradioactive in "Radioactivity Neutralization Methods" in [www.padrak.com/vesperman](http://www.padrak.com/vesperman)

conditioning electromagnetic potentials, fields and waves to treat and alter matter by directly engineering spacetime

a negative potential applied to alpha-emitting radioactive material will enhance alpha decay

'Hutchison effect' for neutralizing both radioactive waste and dispersed radioactivity within 75 miles

a cool solution to radioactive waste disposal

piezonuclear reactions in solutions cavitated by ultrasound

adding organic molecules can positively affect the bioremediation of uranium

GE Hitachi plans to turn nuclear waste into fuel

plasma induced/injected transmutation

China finds way to extend life of nuclear fuel 60 times

hybrid nuclear fusion-fission produces neutrons through fusion to surrounding transuranic waste

best results for radioactive liquids have been demonstrated in the processing of thorium for a 30-minute period and achieving a reduction of radioactivity of about 90% from a liquid sample.

AmoTerra's process involves confined explosions involving proprietary mixtures of materials

extremely weak, non-classical, higher group symmetry electromagnetic fields can alter radioactivity

graphene oxide can decontaminate radioactive fluids

## Space Travel Innovations

colliding plasma toroid fusion reactors could lift payloads into orbit with 99% cost savings

Mike Hanson's flying saucer engine

magnetic vortex drive engine

torsion field makes possible revolutionary new propulsion systems

Searl effect generator

anti-gravity ether shield

space drive engine

torsion field communications

ground transportation for colonies on Mars and Earth's moon

gravito magnetic device

warp drive would travel faster than light

David Burns' anti-gravity spacecraft

torsion field may 'uncurve' space and enable advanced propulsion devices

meta-stable helium as rocket propellant

Dotto anti-gravity thermionic couple

electric rocket

Moe-Joe orgone energy cell

inertia reduction, and possible impulsion by conditioning electromagnetic fields

inertia-less spacecraft and anti-gravity

Domestic Lens for telescopes

double magnetic fields plasma reactor

atomic powered plasma rocket engine

tubular shaped interstellar space craft

nuclear electric rocket

Walden inertial propulsion system

## Space Travel Innovations (Cont'd)

microwave engine could revolutionize space travel  
Nassikas superconducting thruster

## Education

torsion field-linked network of computerized segmented courses

## Urban Design

21<sup>st</sup> century city adjacent to Tonopah airport, includes architect Jorg Ostrowki's ideas  
Foundation of New Society  
New Zealand building  
Roger Scherrer knows of clever urban designs  
Zooid Mission is "a blueprint for the city of the future"  
Belize government has express interest in rural and urban community design

## Number of Inventions in Each Category

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Energy	286
Advanced Self-Powered Electric Vehicle	60
60Materials	35
Communications and Computers	20
Security	8
Health	16
Education	1
Agriculture and Technical Solutions to Water Shortages	21
Waste Treatment	7
Radioactive Waste Treatment	124
Space Travel Innovations	27
Urban Design	7
<b>TOTAL</b>	<b>611</b>

**DISCLAIMER:** Inclusion of any invention or technology described in this list of inventions does not in any way imply its suitability for investment of any kind. All investors contemplating any investments in these devices and technologies should first consult with a licensed financial professional. Prospective investors should exhaustively perform their own investigation of pertinent facts and allegations of facts. Investors should also ensure thorough compliance with regulations of the federal Securities and Exchange Commission and appropriate state securities divisions. For more information, see <http://www.zpenergy.com/modules.php?name=News&file=article&sid=1655>.

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