

# Geoengineering Weather Modification Patents

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This list was originally published on Dane Wigington's GeoEngineering Watch website:

[Extensive List Of Patents](#)

Readers are encouraged to go to the website and explore lots of information about Weather Modification.

[0462795](#) – July 16, 1891 – Method Of Producing Rain-Fall

[803180](#) – October 31, 1905 – Means for Producing High Potential Electrical Discharges

[1103490](#) – August 6, 1913 – Rain-Maker

[1225521](#) – September 4, 1915 – Protecting From Poisonous Gas In Warfare

[1279823](#) – September 24, 1918 – Process and Apparatus for Causing Precipitation by Coalescence of Aqueous Particles Contained in the Atmosphere

[1284982](#) – November 19, 1918 – Process and Apparatus for Procuring and Stimulating Rainfall

[1338343](#) – April 27, 1920 – Process And Apparatus For The Production of Intense Artificial Clouds, Fogs, or Mists

[1358084](#) – November 9, 1920 – Method of Producing Fog Screens

[1619183](#) – March 1, 1927 – Process of Producing Smoke Clouds From Moving Aircraft

[1665267](#) – April 10, 1928 – Process of Producing Artificial Fogs

[1892132](#) – December 27, 1932 – Atomizing Attachment For Airplane Engine Exhausts

[1895765](#) – January 31, 1933 – Artificial Production of Fog

[1928963](#) – October 3, 1933 – Electrical System And Method

[1957075](#) – May 1, 1934 – Airplane Spray Equipment

[1993316](#) – March 5, 1935 – Apparatus for and Method of Producing Oil Fog

[2052626](#) – September 1, 1936 – Method of Dispelling Fog

[2097581](#) – November 2, 1937 – Electric Stream Generator – Referenced in 3990987

[2173756](#) – September 19, 1939 – Process of Producing Fog or Mist by Partial and Flameless Combustion

[2352677](#) – July 4, 1944 – Artificial Fog Production

[2476171](#) – July 18, 1945 – Smoke Screen Generator

[2409201](#) – October 15, 1946 – Smoke Producing Mixture

[2480967](#) – September 6, 1949 – Aerial Discharge Device

[2527230](#) – October 24, 1950 – Method of Crystal Formation and Precipitation

[2527231](#) – October 24, 1950 – Method of Generating Silver Iodide Smoke

[2550324](#) – April 24, 1951 – Process For Controlling Weather

[2582678](#) – June 15, 1952 – Material Disseminating Apparatus For Airplanes

[2611992](#) – September 30, 1952 – Engine Exhaust Operated Fluent Material Distributor

[2614083](#) – October 14, 1952 – Metal Chloride Screening Smoke Mixture

[2633455](#) – March 31, 1953 – Smoke Generator

[2688069](#) – August 31, 1954 – Steam Generator – Referenced in 3990987

[2721495](#) – October 25, 1955 – Method And Apparatus For Detecting Minute Crystal Forming Particles Suspended in a Gaseous Atmosphere

[2730402](#) – January 10, 1956 – Controllable Dispersal Device

[2903188](#) – April 2, 1956 – Control of Tropical Cyclone Formation

[2756097](#) – July 24, 1956 – Process for Weather Control

[2801322](#) – July 30, 1957 – Decomposition Chamber for Monopropellant Fuel – Referenced in 3990987

[2835530](#) – May 20, 1958 – Process for the Condensation of Atmospheric Humidity and Dissolution of Fog

[2871344](#) – January 27, 1959 – Long Distance Communication System

[2881335](#) – April 7, 1959 – Generation of Electrical Fields

[2908442](#) – October 13, 1959 – Method For Dispersing Natural Atmospheric Fogs And Clouds

[2962450](#) – November 29, 1960 – Fog Dispelling Composition

[2963975](#) – December 13, 1960 – Cloud Seeding Carbon Dioxide Bullet

[3019989](#) – February 6, 1962 – Atmospheric Space Charge Modification

[2986360](#) – May 30, 1962 – Aerial Insecticide Dusting Device

[3046168](#) – July 24, 1962 – Chemically Produced Colored Smokes

[3056556](#) – October 2, 1962 – Method of Artificially Influencing the Weather

[3126155](#) – March 24, 1964 – Silver Iodide Cloud Seeding Generator

[3127107](#) – March 31, 1964 – Generation of Ice-Nucleating Crystals

[3131131](#) – April 28, 1964 – Electrostatic Mixing in Microbial Conversions

[3140207](#) – July 7, 1964 – Pyrotechnic Composition

[3174150](#) – March 16, 1965 – Self-Focusing Antenna System

[3234357](#) – February 8, 1966 – Electrically Heated Smoke Producing Device

[3274035](#) – September 20, 1966 – Metallic Composition For Production of Hydrosopic Smoke

[3284005](#) – November 8, 1966 – Weather Control by Artificial Means

[3300721](#) – January 24, 1967 – Means For Communication Through a Layer of Ionized Gases

[3313487](#) – April 11, 1967 – Cloud Seeding Apparatus

[3338476](#) – August 29, 1967 – Heating Device For Use With Aerosol Containers

[3375148](#) – March 26, 1968 – Pyrotechnics Comprising Silver Iodate, Ammonium Nitrate, Nitrocellulose and Nitrate Esters

[3378201](#) – April 16, 1968 – Method for Precipitating Atmospheric Water Masses

[3410489](#) – November 12, 1968 – Automatically Adjustable Airfoil Spray System With Pump

[3418184](#) – December 24, 1968 – Smoke Producing Propellant

[3429507](#) – February 25, 1969 – Rainmaker

[3432208](#) – November 7, 1967 – Fluidized Particle Dispenser

[3441214](#) – April 29, 1969 – Method And Apparatus For Seeding Clouds

[3445844](#) – May 20, 1969 – Trapped Electromagnetic Radiation Communications System

[3456880](#) – July 22, 1969 – Method Of Producing Precipitation From The Atmosphere

[3518670](#) – June 30, 1970 – Artificial Ion Cloud

[3517512](#) – June 30, 1970 – Apparatus for Suppressing Contrails

[3534906](#) – October 20, 1970 – Control of Atmospheric Particles

[3545677](#) – December 8, 1970 – Method of Cloud Seeding

[3564253](#) – February 16, 1971 – System And Method For Irradiation Of Planet Surface Areas

[3587966](#) – June 28, 1971 – Freezing Nucleation

[3595477](#) – July 27, 1971 – Fog Dispersing Method and Compositions

[3601312](#) – August 24, 1971 – Methods of Increasing The Likelihood of Precipitation By The Artificial Introduction Of Sea Water Vapor Into The Atmosphere Winward Of An Air Lift Region

[3608810](#) – September 28, 1971 – Methods of Treating Atmospheric Conditions

[3608820](#) – September 20, 1971 – Treatment of Atmospheric Conditions by Intermittent Dispensing of Materials Therein

[3613992](#) – October 19, 1971 – Weather Modification Method

[3630950](#) – December 28, 1971 – Combustible Compositions For Generating Aerosols, Particularly Suitable For Cloud Modification And Weather Control And Aerosolization Process

[USRE29142](#) – May 22, 1973 – Combustible compositions for generating aerosols, particularly suitable for cloud modification and weather control and aerosolization process

[3659785](#) – December 8, 1971 – Weather Modification Utilizing Microencapsulated Material

[3666176](#) – March 3, 1972 – Solar Temperature Inversion Device

[3677840](#) – July 18, 1972 – Pyrotechnics Comprising Oxide of Silver For Weather Modification Use

[3690552](#) – September 12, 1972 – Fog Dispersal

[3722183](#) – March 27, 1973 – Device For Clearing Impurities From The Atmosphere

[3748278](#) – July 24, 1973 – Process and Agents Having an Influence on the Weather

[3751913](#) – August 14, 1973 – Barium Release System

[3769107](#) – October 30, 1973 – Pyrotechnic Composition For Generating Lead Based Smoke

[3784099](#) – January 8, 1974 – Air Pollution Control Method

[3785557](#) – January 15, 1974 – Cloud Seeding System

[3788543](#) – January 29, 1974 – Uniform Size Particle Generator

[3795626](#) – March 5, 1974 – Weather Modification Process

[3802971](#) – April 9, 1974 – Pyrotechnic Formulations for Weather Modification Comprising a Mixture of Iodates

[3808595](#) – April 30, 1974 – Chaff Dispensing System

[3813875](#) – June 4, 1974 – Rocket Having Barium Release System to Create Ion Clouds In The Upper Atmosphere

[3835059](#) – September 10, 1974 – Methods of Generating Ice Nuclei Smoke Particles For Weather Modification And Apparatus Therefore

[3835293](#) – September 10, 1974 – Electrical Heating Apparatus For Generating Super Heated Vapors

[3858805](#) – January 7, 1975 – Ice Nucleation by Micas

[3877642](#) – April 15, 1975 – Freezing Nucleant

[3882393](#) – May 6, 1975 – Communications System Utilizing Modulation of The Characteristic Polarization of The Ionosphere

[3887580](#) – June 3, 1975 – Method of Crystallization of Water in Supercooled Clouds and Fogs and Reagent Useful in Said Method

[3896993](#) – July 29, 1975 – Process For Local Modification of Fog And Clouds For Triggering Their Precipitation And For Hindering The Development of Hail Producing Clouds

[3899129](#) – August 12, 1975 – Apparatus for generating ice nuclei smoke particles for weather modification

[3899144](#) – August 12, 1975 – Powder contrail generation

[3915379](#) – October 28, 1975 – Method of Controlling Weather

[3940059](#) – February 24, 1976 – Method For Fog Dispersion

[3940060](#) – February 24, 1976 – Vortex Ring Generator

[3990987](#) – November 9, 1976 – Smoke generator

[3992628](#) – November 16, 1976 – Countermeasure system for laser radiation

[3994437](#) – November 30, 1976 – Broadcast dissemination of trace quantities of biologically active chemicals

[4042196](#) – August 16, 1977 – Method and apparatus for triggering a substantial change in earth characteristics and measuring earth changes

[RE29,142](#) – February 22, 1977 – Combustible compositions for generating aerosols, particularly suitable for cloud modification and weather control and aerosolization process

[4009828](#) – March 1 1977 – Organic Nucleating Agent for both Warm and Cold Clouds

[4035726](#) – July 12, 1977 – Method of controlling and/or improving high-latitude and other communications or radio wave surveillance systems by partial control of radio wave et al

[4096005](#) – June 20, 1978 – Pyrotechnic Cloud Seeding Composition

[4129252](#) – December 12, 1978 – Method and apparatus for production of seeding materials

[4141274](#) – February 27, 1979 – Weather modification automatic cartridge dispenser

[4167008](#) – September 4, 1979 – Fluid bed chaff dispenser

[4347284](#) – August 31, 1982 – White cover sheet material capable of reflecting ultraviolet rays

[4362271](#) – December 7, 1982 – Procedure for the artificial modification of atmospheric precipitation as well as compounds with a dimethyl sulfoxide base for use in carrying out said procedure

[4373391](#) – February 15, 1983 – Relative Humidity Sensitive Material

[4396152](#) – August 2, 1983 – Aerosol Dispenser System

[4402480](#) – September 6, 1983 – Atmosphere modification satellite

[4412654](#) – November 1, 1983 – Laminar microjet atomizer and method of aerial spraying of liquids

[4415265](#) – November 15, 1983 – Method and apparatus for aerosol particle absorption spectroscopy

[4470544](#) – September 11, 1984 – Method of and Means for weather modification

[4475927](#) – October 9, 1984 – Bipolar Fog Abatement System

[4600147](#) – July 15, 1986 – Liquid propane generator for cloud seeding apparatus

[4633714](#) – January 6, 1987 – Aerosol particle charge and size analyzer

[4643355](#) – February 17, 1987 – Method and apparatus for modification of climatic conditions

[4653690](#) – March 31, 1987 – Method of producing cumulus clouds

[4684063](#) – August 4, 1987 – Particulates generation and removal

[4686605](#) – August 11, 1987 – HAARP Patent / EASTLUND PATENT – Method and apparatus for altering a region in the earth's atmosphere, ionosphere, and/or magnetosphere

[4704942](#) – November 10, 1987 – Charged Aerosol

[4712155](#) – December 8, 1987 – Method and apparatus for creating an artificial electron cyclotron heating region of plasma

[4744919](#) – May 17, 1988 – Method of dispersing particulate aerosol tracer

[4766725](#) – August 30, 1988 – Method of suppressing formation of contrails and solution therefor

[4829838](#) – May 16, 1989 – Method and apparatus for the measurement of the size of particles entrained in a gas

[4836086](#) – June 6, 1989 – Apparatus and method for the mixing and diffusion of warm and cold air for dissolving fog

[4873928](#) – October 17, 1989 – Nuclear-sized explosions without radiation

[4948257](#) – August 14, 1990 – Laser optical measuring device and method for stabilizing fringe pattern spacing

[1338343](#) – August 14, 1990 – Process and Apparatus for the production of intense artificial Fog

[4999637](#) – March 12, 1991 – Creation of artificial ionization clouds above the earth

[5003186](#) – March 26, 1991 – Stratospheric Welsbach seeding for reduction of global warming

[5005355](#) – April 9, 1991 – Method of suppressing formation of contrails and solution therefor

[5038664](#) – August 13, 1991 – Method for producing a shell of relativistic particles at an altitude above the earths surface

[5041760](#) – August 20, 1991 – Method and apparatus for generating and utilizing a compound plasma configuration

[5041834](#) – August 20, 1991 – Artificial ionospheric mirror composed of a plasma layer which can be tilted

[5056357](#) – October 15, 1991- Acoustic method for measuring properties of a mobile medium

[5059909](#) – October 22, 1991 – Determination of particle size and electrical charge

[5104069](#) – April 14, 1992 – Apparatus and method for ejecting matter from an aircraft

[5110502](#) – May 5, 1992 – Method of suppressing formation of contrails and solution therefor

[5156802](#) – October 20, 1992 – Inspection of fuel particles with acoustics

[5174498](#) – December 29, 1992 – Cloud Seeding

[5148173](#) – September 15, 1992 – Millimeter wave screening cloud and method

[5242820](#) – September 7, 1993 – Army Mycoplasma Patent Patent

[5245290](#) – September 14, 1993 – Device for determining the size and charge of colloidal particles by measuring electroacoustic effect

[5286979](#) – February 15, 1994 – Process for absorbing ultraviolet radiation using dispersed melanin

[5296910](#) – March 22, 1994 – Method and apparatus for particle analysis

[5327222](#) – July 5, 1994 – Displacement information detecting apparatus

[5357865](#) – October 25, 1994 – Method of cloud seeding

[5360162](#) – November 1, 1994 – Method and composition for precipitation of atmospheric water

[5383024](#) – January 17, 1995 – Optical wet steam monitor

[5425413](#) – June 20, 1995 – Method to hinder the formation and to break-up overhead atmospheric inversions, enhance ground level air circulation and improve urban air quality

[5434667](#) – July 18, 1995 – Characterization of particles by modulated dynamic light scattering

[5436039](#) – July 25, 1995 – Artificial Snow in an Aggregate Form of Snow Granules

[5441200](#) – August 15, 1995 – Tropical cyclone disruption

[5492274](#) – February 20, 1996 – Method of and Means for Weather Modification

[5546183](#) – August, 13, 1996 – LIDAR Droplet Size Monitor for In-Flight Measurement of Aircraft Engine Exhaust Contrails, Droplets and Aerosols

[5556029](#) – September 17, 1996 – Method of hydrometeor dissipation (clouds)

[5628455](#) – May 13, 1997 – Method and apparatus for modification of supercooled fog

[5631414](#) – May 20, 1997 – Method and device for remote diagnostics of ocean-atmosphere system state

[5639441](#) – June 17, 1997 – Methods for fine particle formation

[5762298](#) – June 9, 1998 – Use of artificial satellites in earth orbits adaptively to modify the effect that solar radiation would otherwise have on earth's weather

[5800481](#) – September 1, 1998 – Thermal excitation of sensory resonances

[5912396](#) – June 15, 1999 – System and method for remediation of selected atmospheric conditions

[5922976](#) – July 13, 1999 – Method of measuring aerosol particles using automated mobility-classified aerosol detector



[5949001](#) – September 7, 1999 – Method for aerodynamic particle size analysis

[5984239](#) – November 16, 1999 – Weather modification by artificial satellites

[6025402](#) – February 15, 2000 – Chemical composition for effectuating a reduction of visibility obscuration, and a detoxification of fumes and chemical fogs in spaces of fire origin

[6030506](#) – February 29, 2000 – Preparation of independently generated highly reactive chemical species

[6034073](#) – March 7, 2000 – Solvent detergent emulsions having antiviral activity

[6045089](#) – April 4, 2000 – Solar-powered airplane

[6056203](#) – May 2, 2000 – Method and apparatus for modifying supercooled clouds

[6315213B1](#) – June 21, 2000 – Method of modifying weather

[6110590](#) – August 29, 2000 – Synthetically spun silk nanofibers and a process for making the same

[6263744](#) – July 24, 2001 – Automated mobility-classified-aerosol detector

[6281972](#) – August 28, 2001 – Method and apparatus for measuring particle-size distribution

[20030085296](#) – November 2, 2001 – Hurricane and tornado control device

[6315213](#) – November 13, 2001 – Method of modifying weather

[2002009338](#) – January 24, 2002 – Influencing Weather Patterns by way of Altering Surface or Subsurface Ocean Water Temperatures

[20020008155](#) – January 24, 2002 – Method and System for Hurricane Control

[6382526](#) – May 7, 2002 – Process and apparatus for the production of nanofibers

[6408704](#) – June 25, 2002 – Aerodynamic particle size analysis method and apparatus

[6412416](#) – July 2, 2002 – Propellant-based aerosol generation devices and method

[6520425](#) – February 18, 2003 – Process and apparatus for the production of nanofibers

[6539812](#) – April 1, 2003 – System for measuring the flow-rate of a gas by means of ultrasound

[6553849](#) – April 29, 2003 – Electrodynamic particle size analyzer

[6569393](#) – May 27, 2003 – Method And Device For Cleaning The Atmosphere

[20040060994](#) – April 1, 2004 – Method for Influencing Atmospheric Formations

[20040074980](#) – April 22, 2004 – Method and Device for Generating a Liquid Mist

[0056705 A1](#) – March 17, 2005 – Weather Modification by Royal Rainmaking Technology

[6890497](#) – May 10, 2005 – Method For Extracting And Sequestering Carbon Dioxide

[2446250](#) – January 4, 2007 – A dust or particle-based solar shield to counteract global warming

[20070056436](#) – March 15, 2007 – Challenger to Natural Twisters, Technology

[20070114298](#) – May 24, 2007 – Hurricane Abatement Method and System

[20070158449](#) – July 12, 2007- Tropical Hurricane Control System

[20070215946](#) – September 20, 2007 – Broadband Communications System via Reflection from Artificial Ionized Plasma Patterns in the Atmosphere

[7965488](#) – November 9, 2007 – Methods Of Removing Aerosols From The Atmosphere

[8048309](#) – August 28, 2008 – Seawater-Based Carbon Dioxide Disposal

[20100072297](#) – September 24, 2008 – Method for controlling hurricanes

[7434524](#) – October 14, 2008 – Machine to Get Rid of Hurricanes

[8012453](#) – October 27, 2008 – Carbon Sequestration And Production Of Hydrogen And Hydride

[20090008468](#) – January 8, 2009 – How to Tame Hurricanes and Typhoons with Available Technology

[7520237](#) – April 21, 2009 – Hurricane Prevention System and Method

[20090255999](#) – October 15, 2009 – Production or Distribution of Radiative Forcing Elements

[20090290761](#) – November 26, 2009 – Upper Troposphere and Lower Stratosphere Wind Direction, Speed, and Turbidity Monitoring using Digital Imaging and Motion Tracking

[7645326](#) – January 12, 2010 – RFID environmental manipulation

[7655193](#) – February 2, 2010 – Apparatus For Extracting And Sequestering Carbon Dioxide

[20100074390](#) – March 25, 2010 – Method for Weather Modification and Vapor Generator for Weather Modification

[20100127224](#) – May 27, 2010 – Atmospheric Injection of Reflective Aerosol for Mitigating Global Warming

[7748662](#) – July 6, 2010 – Aerial Delivery System

[20100170958](#) – July 8, 2010 – Hurricane Mitigation by Combined Seeding with Condensation and Freezing Nuclei

[20100252648](#) – October 7, 2010 – Climate Processor

[20100282914](#) – November 11, 2010 – Enhanced Aerial Delivery System

[20110005422](#) – January 13, 2011 – Method and Apparatus for Cooling a Planet

[20110049257](#) – March 3, 2011 – Method and Apparatus for Local Modification of Atmosphere

[20110101124](#) – May 5, 2011- Hurricane Abatement System and Method

[2011073650](#) – June 23, 2011 – Atmospheric Delivery System

[20110168797](#) – July 14, 2011 – Method of Weakening a Hurricane

[20110174892](#) – July 21, 2011 – Apparatus and Related Methods for Weather Modification by Electrical Processes in the Atmosphere

[20110198407](#) – August 18, 2011 – Method and Apparatus to Break Up or Annihilate Typhoons, Tornadoes, Cyclones or Hurricanes

[20110204159](#) – August 25, 2011 – Weather Management Using Space-Based Power System

[20110284649](#) – November 24, 2011 – Apparatus and Method for the Mitigation of Rotating Wind Storms

[8079545](#) – December 20, 2011 – Ground based Manipulation and Control of Aerial Vehicle during nonflying operations

[20120024971](#) – February 2, 2012 – Methods for Environmental Modification with Climate Control Materials and Coverings

[8262314](#) – September 11, 2012 – Method for Decreasing the Intensity and Frequency of Tropical Storms or Hurricanes

[0117003](#) – October 5, 2012 – Geoengineering Method Of Business Using Carbon Counterbalance Credits

[20120267444](#) – October 25, 2012- Artificial Freezing Apparatus and Freezing Method Therefor

[20120286096](#) – November 15, 2012 – Aerial Delivery Devices, Systems and Methods

[20130008365](#) – January 10, 2013 – System and Method for Decreasing the Intensity and Frequency of Tropical Storms or Hurricanes

[8373962](#) – February 12, 2013 – Charged seed cloud as a method for increasing particle collisions and for scavenging airborne biological agents and other contaminants

[20130038063](#) – February 14, 2013 – Apparatus and Method for Inhibiting the Formation of Tropical Cyclones

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[8402736](#) – March 26, 2013 – Method and Apparatus for Suppressing Aeroengine Contrails

[8439278](#) – May 14, 2013 – Apparatus for Producing a Mass of Water Vapor, Apparatus for Producing, Moving, and Climbing a Mass of Water Vapor, and Method of Causing Artificial Stimulation of Rain

[20130175352](#) – July 11, 2013 – Method to Influence the Direction of Travel of Hurricanes

[20130186127](#) – July 25, 2013 – Ice Floater for Facilitating Ice-Freezing on Water Surface

[20130206912](#) – August 15, 2013 – Moisture Dispersion

[20140055876](#) – February 27, 2014 – Method for Controlling Land Surface Temperature using Stratospheric Airships and Reflector

[20140131471](#) – May 15, 2014 – Apparatus to Channel Large Air Masses for Climate Modification

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[8944363](#) – February 3, 2015 – Production or Distribution of Radiative Forcing Agents

[20150077737](#) – March 19 2015 – System and Methods for Monitoring an Environment

[9002660](#) – April 7, 2015 – Device and Method for Determining and Indicating Climate-Relevant Effects of a Contrail Produced by an Airplane

[20150230415](#) – August 20, 2015 – Methods for Decreasing Local Temperature using High Albedo Materials

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[9311539](#) – April 12, 2016 – Aircraft Contrail Detection

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[9589473](#) – March 7, 2017 – Method and System for Automatically Displaying Flight Path, Seeding Path, and Weather Data

[9715039](#) – July 25, 2017 – Apparatus and System for Smart Seeding within Cloud Formations

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[20180006422](#) – January 4, 2018 – Methods for Disrupting Hurricane Activity

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[9924640](#) – March 27, 2018 – Modifying Sunlight Scatter in the Upper Atmosphere

[20180217119](#) – August 2, 2018 – Process and Method for the Enhancement of Sequestering Atmospheric Carbon through Ocean Iron Fertilization, and Method for Calculating net Carbon Capture from said Process and Method

[10189753](#) – January 29, 2019 – Fog-Generating Device Comprising a Reagent and Ignition Means

[10314249](#) – June 11, 2019 – Systems and Methods of Inducing Rainfall

[10375900](#) – August 13, 2019 – Rain Induced by Supercontinuum Laser Beams

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[10701871](#) – July 7, 2020 – Systems for Maintaining and/or Decreasing Water Temperature using High Albedo Materials

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[2021063943](#) – April 8, 2021 – Bacterial Preparations for Ice Nucleation

[20210153442](#) – May 27, 2021 – Systems and Methods for Rain Cloud Initiation

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[20210329922](#) – October 28, 2021 – Compositions and Methods for Enhanced CO2 Capture and Storage

[20210329852](#) – October 28, 2021 – Method for Preventing a Formation of, and/or for Dispersing, a Tropical Cyclone, and Arrangement Therefor

[20210352856](#) – November 18, 2021 – Aerial Electrostatic System for Weather Modification

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[23220065599](#) – March 3, 2022 – Rocket for Artificial Rainfall using Ejection Hygroscopic Flare

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[2022094269](#) – May 5, 2022 – Reflective Hollow SRM Material and Methods

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