

(Enders, Moritz 'Wetterwaffen - Utopie oder Wirklichkeit?', *Deutsche Wirtschaftsnachrichten*.)

[...]

1103490 – August 6, 1913 – Rain-Maker

1225521 – September 4, 1915 – Protecting From Poisonous Gas In Warfare

1338343 – April 27, 1920 – Process And Apparatus For The Production of Intense Artificial Clouds, Fogs, or Mists

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

1928963 – October 3, 1933 – Electrical System And Method

1957075 – May 1, 1934 – Airplane Spray Equipment

2097581 – November 2, 1937 – Electric Stream Generator – Referenced in 3990987

2409201 – October 15, 1946 – Smoke Producing Mixture

2476171 – July 18, 1945 – Smoke Screen Generator

2480967 – September 6, 1949 – Aerial Discharge Device

2550324 – April 24, 1951 – Process For Controlling Weather

2582678 – June 15, 1952 – Material Disseminating Apparatus For Airplanes

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

2801322 – July 30, 1957 – Decomposition Chamber for Monopropellant Fuel – Referenced in 3990987

2881335 – April 7, 1959 – Generation of Electrical Fields

2908442 – October 13, 1959 – Method For Dispersing Natural Atmospheric Fogs And Clouds

2986360 – May 30, 1962 – Aerial Insecticide Dusting Device

2963975 – December 13, 1960 – Cloud Seeding Carbon Dioxide Bullet

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

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 Hygroscopic Smoke

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

3410489 – November 12, 1968 – Automatically Adjustable Airfoil Spray System With Pump

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

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

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

3722183 – March 27, 1973 – Device For Clearing Impurities From The Atmosphere

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

3795626 – March 5, 1974 – Weather Modification Process

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

3877642 – April 15, 1975 – Freezing Nucleant

3882393 – May 6, 1975 – Communications System Utilizing Modulation of The Characteristic Polarization of The Ionosphere

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

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

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

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

5441200 – August 15, 1995 – Tropical cyclone disruption

5486900 – January 23, 1996 – Measuring device for amount of charge of toner and image forming apparatus having the measuring device

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 satellite

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

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

6315213 – November 13, 2001 – Method of modifying weather

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

0056705 A1 – March 17, 2005 – Weather Modification by Royal Rainmaking Technology

6890497 – May 10, 2005 – Method For Extracting And Sequestering Carbon Dioxide

7965488 – November 9, 2007 – Methods Of Removing Aerosols From The Atmosphere

8048309 – August 28, 2008 – Seawater-Based Carbon Dioxide Disposal

8012453 – October 27, 2008 – Carbon Sequestration And Production Of Hydrogen And Hydride

7645326 – January 12, 2010 – RFID environmental manipulation

7655193 – February 2, 2010 – Apparatus For Extracting And Sequestering Carbon Dioxide

8079545 – December 20, 2011 – Ground based Manipulation and Control of Aerial Vehicle during nonflying operations

0117003 – October 5, 2012 – Geoengineering Method Of Business Using Carbon Counterbalance Credits – alternate link

US8373962 – February 12, 2013 – Charged seed cloud as a method for increasing particle collisions and for scavenging airborne biological agents and other contaminants