

# Diverse Wetter-Manipulations-U.S. –Patente von 1920 bis 2013Veröffentlicht am [1. Oktober 2011](#)

## United States Patent and Trademark Office

[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

[1631753](#) – June 7, 1927 – Electric Heater – Referenced in 3990987

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

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

[928963](#) – October 3, 1933 – Electrical System And Method

[1957075](#) – May 1, 1934 – Airplane Spray Equipment<sup>2</sup>

[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

[2591988](#) – April 8, 1952 – Production of TiO<sub>2</sub> Pigments – Referenced in 3899144

[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 – Referenced in 3990987

[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 Hydrosopic 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 – Referenced in 3990987

[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](#) – This patent is a reissue of patent US3630950 – 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 Atmospher

[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 – Reissue of: 03630950 – 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 earth's 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  
adetoixifixation 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

[553849](#) – 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

[7,645,326](#) – January 12, 2010 – RFID environmental manipulation

[8,079,545](#) – December 20, 2011 – Ground based Manipulation and Control of Aerial Vehicle during nonflying operations

[0117003](#) - Oct 05.2012 – Geoengineering Method Of Business Using Carbon Counterbalance Credits

[8373962](#) – February 12, 2013 – Charged seed cloud as a method for increasing particle collisions and

for scavenging airborne biological agents and other contaminants

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