

REMOVING FINE PARTICULATE MATTER FROM THE ATMOSPHERE USING ANIONS

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Abstract: general properties of the anions are presented and proposed an installation for cleaning solids nanoparticles suspended in the atmosphere.

Key words: anions, Lenard effect, Marx generator.

1. ANIONS

An anion is a **negatively charged** ion that is **biologically beneficial** and produced mostly in wilderness areas. Most people feel revitalized immediately when they are in the forest or stand next to a waterfall because these places are filled with anions. When anions are absorbed into the human body, they provide many positive health benefits.

1.1. Benefits of Anions

Air Purification

- Eliminate of toxic gases and bad odors
- Eliminate organic waste materials such as cigarette smoke
- Remove micro dust
- Reduce dust mites
- Ozone Free (0.000PPM)

Health Improvement

- Strengthen immunity
- Increase blood circulation
- Increase metabolism
- Relieve asthma & allergies
- Hasten recovery from fatigue

Protection against Viruses

- Kill viruses in the air including H1N1
- Sanitize, destroying 99.9% of bacteria
- Sterilize germs and molds
- Stop electromagnetic waves

2. EFFECTS OF ANIONS

- Negative ions [Anions] improve blood circulation, increasing the rate of blood flow.
- Anions purify the blood by increasing alkalinity and balancing the ratio of certain minerals in the blood.
- Increase calcium in the body, so bones get stronger and the heart gets stronger
- Increase resistance against infections by increasing the number of globulin immune elements in the blood stream
- Control of the autonomic nervous system
 - Revitalizes all the organs of the body as well as the nervous system, the blood system, and the lymph system
 - Plays a critical role in strengthening weakened immune functions
- Hasten recovery from fatigue

- Lower the serotonin levels in the blood and bring about healthy biochemical reactions in the body and brain
- A heavy concentration of anions stops
 - Micro waves
 - Radio waves
 - Electromagnetic waves
- **Purify the air**
 - Eliminate organic waste materials such as cigarette smoke, sulfurous acid gas, nitric oxide compound and carbon monoxide.
 - Remove bacteria, viruses, and micro dust
- Eliminate of toxic gases and bad odors by ionizing chemicals that cause bad smells
- Concentration is enhanced
- Emotions calm down
- Relieve atopic (dry skin) syndrome and skin allergies
 - 15% of anions are absorbed by breathing
 - 85% of anions are absorbed through the skin
- Neutralize cations that cause inflammation and infections
- Relieve asthma
- Promote plant growth by increasing potassium, calcium, and other inorganic ions in the plant's cell
- Increase the lifespan of animals

3. THE CONTAMINATED AIR PURIFICATION PROCESS BY NEGATIVE IONS [ANIONS]

STEP 1

When anions are released, they attach to positive ions or cations (such as odor, toxic gases, cigarette smoke, micro dust mites, pollen, dander, dust, etc.) in the air.

STEP 2

Once anions (negative ions - beneficial molecules) and cations (positive ions - harmful molecules) are combined, anions neutralize the harmful effects of cations and create clusters.

STEP 3

Neutralized clusters drop on the floor. Remaining anions floating in the air are absorbed to human bodies from breathing and through the skin.

- Lowers our stress levels
- Boosts our energy levels
- Acts as a natural anti-depressant
- Strengthens our immune system
- Helps us sleep better
- Reinforces collagen production
- Improves our blood circulation
- Increases mental energy

And specifically for anions in sanitary napkins, negative ions help:

- Balance PH and hormone levels
- Protect against germs in the air
- Reduce inflammation
- Fights against vaginal irritations and infections
- Eliminate unwanted odor

The purpose for which it is made this presentation is practical.

It is known that, especially at intersections, roundabouts, generally in cities, but also in industrial areas or areas under construction, concentrations of nanoparticles with dimensions PM10 - PM2.5 appreciably exceeds permissible limits. Furthermore, these types of particles can not be removed from the atmosphere than by injection anion. To increase the action of ions, we can consider Lenard effect: near waterfalls with microscopic water droplets loaded with negative electric charge - anions - constitute the centers of condensation and attract particles of dust in the air. Follow submitting their gravity.

For this purpose, we propose the construction of an installation made up of two parts:

A mechanical part in order to produce a fine mist;

Some electric voltage multiplier Marx generator type, with which the water particles to be injected with electrical charge. Are thus obtained -the water particles identical to those generated by the Lenard effect.

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