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Theoretical analisys of comparison of modern characteristics and parameters natural light for improving electrical current from perspective solar panels civil aircrafts

Actuality of natural light and solar panels problems well known, because its theoretically unites known earlier types of emissions. Relevance of its influence on hand-made emission: laser light ,gas-discharge lamps light and incandescent lamps, radio emission, that used in technical tools are also known.

The problem in general and its connection with the solution of scientific problems, shows, that in order to create more powerful electric current, which creates by light we need to solve the fundamental question is whether this is possible at all, in theory. To improve power of electric current, we propose to develop a method for controlling the process of exposure on natural light.

The research aims to solve important scientific problem – composition of natural light and its influence according to the theory on power of electric current in the study of the environment. To solve this problem we propose isolate from the sunshine one elementary ray and consider it.

Today, the source of the photon field is a hyperfrequency elementary generator , that works in sun plazma. The term "photon", as known from history, was introduced into science by G. Lewis in 1929., therefore, classical physics mistakenly takes for a photon not for a particle, but for a second portion of energy is a mono beam.

First of all, science asserts that particles are emitted by pairs whose orbits lie in the same plane, but their direction of motion at each moment of time is anti-equinox. It means , that if first photon is left, then second is always right , if the first in on top, then second is on bottom, etc. Thus, the leading role is played by the forces of electron-beam interaction E_1, although the forces of electron-photon interaction E_2 also play an important role, which consists in the formation of the tangential force of the photons at the moment of their intersection with the axis of the beam, at the opposite mouth. Lets determine the tangential force F_{0i} for photons in this way

$$F_{oi} = \frac{a \cdot E_1 \cdot E_2}{l_i} = \frac{a \cdot E_i}{l_i} = 4,11060867 \cdot \frac{7 \cdot 10^{-34}}{4 \cdot 10^{-7}} = 1,0276521 \cdot 10^{-27}$$

The personal contribution of the authors is to uncover the mechanism, introduction of a modern view and development of a method for managing the process of increasing the power of electric current under the influence of natural light.

The new approach to solving problems is as follows. Compare two types of

laser radiation and natural sunlight, to determine their different *k*. If in the process of simulation we compare the value *A* by laser beam with value A_σ, we find

$$k = \frac{A}{A_0} = 1{,}32317037 \cdot 10^{10}$$

$$S_i = \frac{\frac{S_{o\partial}}{k}}{k} = 7{,}55760617 \cdot 10^{-11}$$

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The scientific result obtained on the basis of the application of the theory of radiation and the scientific-methodical apparatus of the study is as follows. In order to concentrate the energy of a beam of rays of sunlight with a cross section in $S_{o\partial}$ ($м^2$) to laser beam ray you need to squeeze it to the intersection S_i . The secret of such a high concentration of energy in a bundle of laser light is that it is not a bundle of elementary rays, but one compact ray of a fundamentally different structure , than nature light. There are no such emission in the nature, because it fully created by humans .

Efficiency our method is that , що for practical calculations of parameters, characteristics and estimation of the influence of natural light, more accurate analytical relationships between the components of the system of amplification of the electric current of a solar battery are used..

The hypothesis for solving existing problems is to increase the power of electric current. Own electron velocity is $v=57 \cdot 10^{-3}$,*м/с,* and the distribution of electric current by conductor is equal to the speed of light $c=2{,}99792467 \cdot 10^8$ м/с. Modern physics knows that consumers of electric current of solar panels can not consume electrons as fuel. No one cant prove, that consumers scattered free electrons as exhausted body or they was stored as a nuclear waste after Chernobyl NPP. Electrodynamic constant v_0 is a function of a gyromagnetic constant of electrons, although $g_э=2{,}8992629\ 10^8$, *Cl / kg* = *Const* ≠ *c* and close to her by module. As it has been established, beam is a vortical stream of electric along a negative axial field($-1{,}9876643 \cdot 10^{-27}$, *Кл*) with a step speed v_0 . In physics v_0 (m/s) is the velocity of the vortex distribution along the conductor, or is the stepping velocity of the vortex elektryno.

$$v_0 = \frac{\epsilon}{м_\epsilon \cdot E_{O\partial} \cdot v_{O\partial}^{-1}} = g_э \cdot E_{O\partial} \cdot \tau_{O\partial} = 2{,}89926297 \cdot 10^8, = const \quad (2.33)$$

where

$E_{o\partial}$ = *1, V/m* – unit voltage of the electric field of the conductor.

Received in 1868 J. Maxwell is the result of measuring the speed of light $c'=2{,}887 \cdot 10^8$ *m/s*, it turned out to be less than the true value of the electrodynamic constant v_0, getted by modern physics, only on *0,66885%*, but differs from the speed of light on *4,0946%*. Then the step move of the positive field along the conductor is its electric current I_i (*Cl/s*), which is proposed to be considered on the model and presented by a new mathematical equation

$$I_i = \epsilon \cdot V_i, \tag{2.34}$$

where

$\epsilon = 1{,}9876643 \cdot 10^{-27}$, *Cl* – elektryno charge;

V_i – Frequency of the electron passage through the intersection of the conductor with current.

The development of the theory uses the position of modern physics, which fully confirms the fact, that even laser beam pusle, stretched in space by a length $l=v_0 \cdot \tau=4{,}34889$ *m*, is not an electric light, but an electric beam, which is similar in nature to a current conductor. This pulse is generated by an eddy current electryno along the negative axial field of the beam consisting of n_p vortex packets, with the distance between them $h=\lambda=1{,}06 \cdot 10^{-6}$, *м*. At the same time each package is formed by n_m orbits, and on each orbit, step by step, address k_m electryno with c_2 parameters and with spatial interval between them $\Delta l=2 \pi r / k_m=2{,}2430214 \cdot 10^{-7}$, *m*.

After numerical mathematical resourch, we get a solution to the problems through the use of the modern theory of radiation, which is based on the last sixty discoveries in physics

Conclusion

Perspectives of further research in the scientific direction are that for the first time an unconventional approach to solving problems was proposed through the creation of a modern theory of radiation. This allows you to make more accurate calculations when designing systems and complexes that include electrical batteries. The proposed new theory is supported by fundamental research and calculation data from modern physics used in the work to confirm the results obtained during the simulation.

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