

# Phenomenon of electric current rotation in nonlinear electric system

## Violation of the law of charge conservation in the system

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The description of an electrical nonlinear device, which reliably works with efficiency of more than 1, is given. For the first time, physical processes in a circuit, which lead to the formation of abnormally strong current at a limited section of the circuit, were experimentally registered. Due to them, the mode of superhigh efficiency occurs. It was supposed that a source of boosting charges forming overcurrent was a physical vacuum.

Search of new energy carriers is being developing all over the world. The reason is clear: the widely used organic fuel is coming to an end. Ecological problems are beginning to concern even staunch optimists not to mention pessimists.

Experiments conducted recently in different countries prove that this problem has a solution. It is a good sign that, for example, a few dozen of electrical and mechanical devices are known (patented) and operating with efficiency of more than 1. This effect is being explained by the suggestion that such devices (or circuits) interact under certain working conditions with an unknown and unused energy carrier and obtain extra output from it. Many authors think that this energy carrier is space-time, which contains (theoretically) enormous energy reserves. The suggestion is proved by a number of well-known experiments (Kazimir's effect, formation of the electron-positron couple etc.).

In this case, the following questions are urgent: which properties of the circuit or the operation mode can cause generation of extra energy? Which physical processes contribute to this?

The majority of devices and circuits with extra-high efficiency, which are known to the author, are rotating systems. Construction elements, liquids in useful capacities, electromagnetic fields in circuits rotate. Most likely this particular feature (rotation) can be considered as a key to energy storeroom of space-time.

However, it is known that rotation itself cannot cause any unexplained effects. But, for instance, during the experiments of N.A. Kozyrev on changing of weights of bodies [1], rotation was accompanied by irreversible physical processes. The result was positive.

In the given report, a phenomenon formed during the operation of electric rectifying circuit (irreversible process in the nonlinear circuit), **in case an element generating current rotation is included in its load**, is described. The element is passive and has no energy sources [2]. During operation with the element, from the point of view of a stranger, an obvious violation of the law of electric charge conservation happens in the circuit. The effect is the following: in case a sequential circuit of the rectifier is used, a pulse current appears in its sector (in the load circuit). It flows through the load and diodes and its quantity exceeds input current from the power supply (the circuit of 220V, 50 Hertz) by 1.5 – 2 times. If the rectifier's circuit is improved, it can exceed by 3 times and more. The overcurrent flows only along the closed internal circuit: load – diodes of rectifier bridge – element generating rotation (converter). Naturally, reasonable belief appears that overcurrents are caused by an unknown auxiliary charge source.

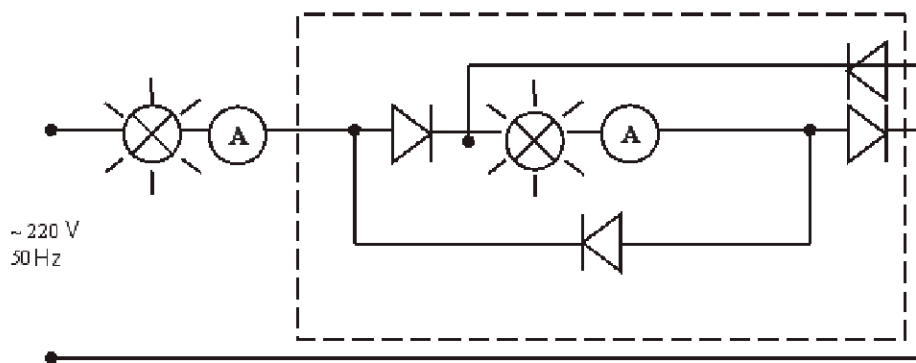


Fig. 1

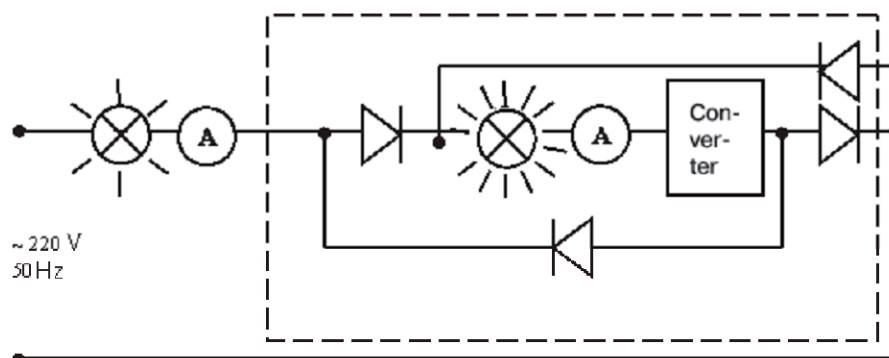


Fig. 2

This increase of current strength in a diagonal of the rectifier bridge leads to generation of output in the load of the experimental circuit, which exceeds enter output by 2 – 4 times. It is especially clear if incandescent lamps are used as output indicators. The circuit demonstrating this experiment is shown on Fig. 1 and 2.

Two identical lamps using ampere rating of 0.3 amperes were included in the circuit: one was located between the voltage source (network) and the rectifier and another was included in the load diagonal. Both lamps were included consecutively in relation to the voltage source and, therefore, without the converter (Fig. 1) and lit with the same brightness. During inclusion of the load consecutively with the converter's lamp (Fig. 2), an unusual effect occurs: converter is a passive element containing active resistance but an amperemeter included into the diagonal shows that, in spite of losses, current increases there and, accordingly, the lamp in the diagonal begins

to light much brighter. The lamp, which is included between the voltage source and the rectifier, does not react to the converter and lights with the same brightness. The amperemeter, measuring current through it, shows that current from the external voltage source does not change during inclusion of the converter.

The circuit works sufficiently stably during this operation mode. The above mentioned measurements were carried out hundreds of times and demonstrated an ideal recurrence.

During thorough investigation of the operation mode of this nonlinear "exotic" circuit, it was discovered that a free (proper) process occurs in the load diagonal of the rectifier. The reason of it is jumping of the pulse current's derivative in points of time when the current is equal to zero. As a result, the rectifying circuit plays a role of a peculiar generator of free processes and they regularly

occur in the load diagonal. Certainly, the current of free process exists in the load circuit (lamp – converter – diodes) besides current from the external generator.

It is necessary to mention that the current of free process has a reactive nature and does not use energy of the external generator.

We must also pay attention to the fact that free processes play a fundamentally important role in the operation of the known “exotic” circuits, such as Avramenko’s plug and Tesla’s resonance transformer.

It is important for us, however, that the occurrence of free processes in the circuit is caused by peculiarities of change of electromagnetic field’s energy, which is formed by reactive elements of the circuit [3] and, thus, change of the state of space-time adjoining the mentioned elements. Two experimental facts exist: change of electromagnetic field’s energy (change of space-time’s state) during the occurrence of free processes in the circuit and significant increase of current in this circuit accompanying occurrence of free processes. Comparing these facts, a supposition appears that the source of overcurrent, which is formed only due to the increase of quantity of elementary charges on the given circuit’s section (the seeming violation of the law of charge conservation is demonstrated

by this), is a local area of space-time where free process exists. It can be caused, for example, by occurrence of electron-positron couples due to vacuum deformation [4] in the given local area under the described conditions. Or, if we have another initial supposition, it is caused by the convergence of a unitron field, which probably leads to the same [5]. In any event, reasons of this phenomenon depend on real processes taking place in physical vacuum.

Obviously, the occurrence of overcurrent in the load circuit of the given circuit leads to the abnormal increase of its efficiency.

Further research and development directed at the increase of overcurrent in nonlinear systems could lead to the application of this method of extra electric energy generation to industrial power engineering.

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