



The Design and Practical Implementation of a Microwave Generator – ANTITRAUL – Prototype used in Counterterrorist Missions

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The present paper highlights the way of developing on a scale of 1:1 a microwave generating device, a prototype that is designed for being used in the special missions assigned to military engineer specialists to combat terrorism. This device, used as a psychotronic weapon, can remotely neutralize various brain centers, thus preventing the terrorist action to be carried out by the person concerned. The paper presents in detail the organological construction and the operation of this device, also pointing out the advantages, the scientific novelty and the originality of the use of such a prototype in counterterrorist actions.

Keywords: *counterterrorism, psychotronic device, human-artificial "partnership", special missions.*

1. Introduction

The psychotronic weapons used in anti-terrorist missions are devices meant to manipulate the target group, initially possessing the brainwave control technology and being able to lead to "desired" reactions according to the created situation. These devices use electromagnetic waves that can influence human behavior, altering normality and turning terrorist groups into a bunch of easily controllable people or "*zombies easy to manipulate*". The electromagnetic waves have complex influences that can cause alterations in the human body, (with effects on the nervous system, heart, bladder, pancreas, liver, brain activity, teeth, etc.) resulting in the destruction of the individual or in its maiming.

In the present paper we suggest the practical realization of a psychotronic device based on extremely high frequency radiation that falls within millimeter wavelengths, comprising the range between 30 GHz and 300 GHz. This type of weapon can neutralize various centers of the brain and can cause the destruction or the complete cessation of any vital system from a distance. The weapon can act

on a single person and the maximum of efficiency and action on certain centers of the body is reached if the victim is relaxed or not moving. The psychotronic devices use radiations and frequencies similar to those emitted by a microwave oven with a frequency range of 3000 MHz. If these are used on a terrorist, they can cause convulsions of the lower limbs, burning of the soles, pains in the auditory and olfactory systems, cracklings and vertigo at the level of the central system, vomiting, headaches, etc.

2. Concept and practical realization of the *ANTITRAUL* functional psychotronic prototype

In the conception and realization of anti-terrorist weapon structures, the designers consider increasing the speed of their actions and diminishing the gauge dimensions in order to ensure the safety of action and reduce the number of victims. At present, for the purpose of mapping and transmitting information to specialists, in conflict zones, technological products such as sonar, radar, drones and mini robots structures equipped with electronic and audio-video equipments necessary to transmit data in real time. The realization and testing in the laboratory of the functional prototype *ANTITRAUL* revealed that the remote stimulation of the mentality of some subjects can lead to their spreading (thus avoiding terrorist actions), without altering the health of the subjects in cause. As a result of the preliminary research carried out, it was concluded that the development of such a functional prototype would affect the psyche of the subjects in a short (but non-lethal) manner, thus causing them to abandon the terrorist actions that may have a negative impact on the civilian population and society.

The microwave generator device (Figure 1), made in the Mechanical Engineering Laboratory, has the shape of a parallelepiped fixed on an immobile support base having the following dimensions: length $L = 0.280$ m, width $l = 0.240$ m and height $h = 0.220$ m, and the length of the fixed support $L_s = 0.500$ m. The functional characteristics of the device we made are the following: the working frequency of the applicator $f = 2.45$ GHz, ambient temperature $T_a = 20$ °C, the heating temperature of the component materials $T_m = 40$ °C, the anode current $I_a = 0.7$ A, the maximum intensity of the electrical current emitted by the cathode $J_c = 0.15$ A/cm², and the electrical crossings are T_{E1} , T_{E2} and T_{E3} .

During the execution of the prototype, we took into account the elements of protection against the emitted radiation due to the fact that a magnetron was used; thus we utilized: for α rays, a sheet of paper; for β rays, aluminum screens; for γ rays, lead screens; and for n rays, multi-layered waterscreens/heavy water/graphite.

The prototype was developed in a simple and efficient way, using electrical components that facilitate the interoperability of subsystems such as cables,

buttons, fan, resistors, magnetron (a variant chosen due to the fact that the radiation emitted by it is non-ionizing, being similar to those emitted by the MRI machine). The designed device also comprises two main circuits —an output one and a magnetic one.

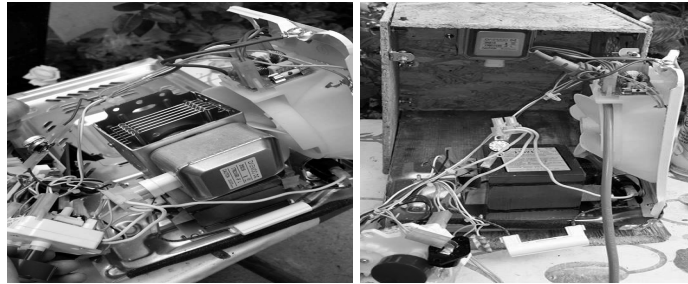


Figure 1. Views inside the component of the ANTITRAUL psychotronic prototype

The magnetron (Fig 2a, b) represents the essential element in generating the microwave flux, representing a power oscillator. It is represented by a cylindrical vacuum tube made of two electrodes (an anode and a cathode/filament), an antenna and permanent magnets functioning on the basis of pulses.

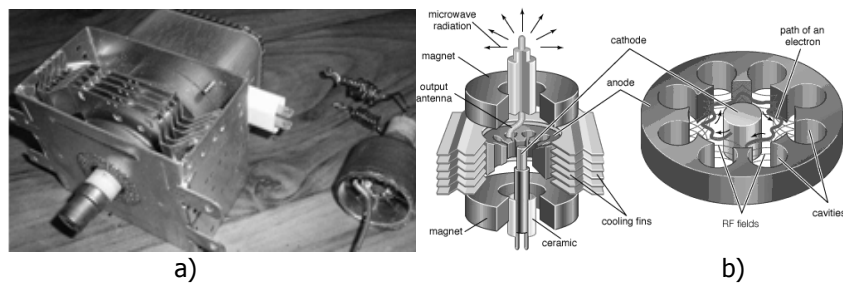


Figure 2. Assembling the magnetron in the component of the prototype:
a) overview; b) the components of the magnetron

The functioning of the magnetron is based on the movement of the electrons, generated by the cathode, to the anode, under the influence of the electric field generated by the anode voltage applied to the tube and of the magnetic field generated by the permanent magnets. Under the influence of the electric field, the electrons tend to move linearly and, under the influence of the axial magnetic field, their trajectory will be a circular one, from the anode to the cathode. The magnetron has resonant cavities embedded in the metal anode made of copper and uses, in its functioning, a narrow band width, transforming the 50 Hz frequency of the network into a high frequency of 2.451 GHz.

The device (Figure 3) has a supply voltage of 220 V, which is taken over by the network filter and applied to the high frequency transformer. The transformer has a primary winding that is connected to the supply voltage and two secondary windings, one to supply the magnetron cathode, and the other, by means of rectifier circuit, forms the anode voltage. The prototype is equipped with a switch that controls the turning on/off of the device, a fan that maintains the low temperature of the component equipment and two contacts needed to power the control indicator and the commissioning of the weapon. In the secondary circuit, there appears a very high voltage, which is rectified by means of a diode, the winding providing the voltage necessary for the functioning of the magnetron and, implicitly, for the generation of electromagnetic waves directed toward the target.



Figure 3. Assembling the psychotronic prototype

The prototype works by means of the magnetron that emits the microwaves, which are then filtered and directed, through an aluminum tube, toward the target. Among the advantages of using microwave energy for functional prototype of psychotronic weapons, we mention the following: transporting it without polluting the environment and the relatively low maintenance costs.

3. Conclusion

This paper addresses a relatively new field of combat that has as an objective the reduction of human casualties among both soldiers and the civilian population involved in conflicts. The psychotronic weapons based on extremely high-frequency radiation can neutralize rebel populations from a distance without causing casualties and without affecting the quality of the life of the individual. The device represents a new vision related to this type of weapons, having as well-determined purpose the changing of the behavior of the individual in society as well as of certain groupings as a whole. Theoretically, there exists the possibility of remote mind control, and certain situations can be explained physically: an electromagnetic pulse weapon is a device that uses the compression of a magnetic flux.

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