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**PROCEEDINGS OF THE VI INTERNATIONAL
SCIENTIFIC PRACTICAL CONFERENCE
“INTERNATIONAL SCIENTIFIC COOPERATION
IN THE EURASIAN SPACE”
VI ISPC ISCEAS 2021
25-26 February 2021 Aachen, Germany**



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APPLICATION OF THE ELECTROMAGNETIC VIBRATION DRIVE IN INTENSIVE VIBROTECHNOLOGIES OF AGRICULTURAL AND WATER SECTORS

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Abstract: The article deals with the application of a controlled electromagnetic vibration drive for intensive vibration technologies in the water sector. A method is proposed for regulating the amplitude and frequency of the working body of the vibrating unit, which improves the efficiency of mechanical vibration and energy indicators. The result of a constant magnetic field, an electromagnetic field, and low-frequency mechanical vibrations on specific electrical conductivity of distilled water was studied. Newly formed (fresh), three-day- and six-day-old distilled water was used.

Keywords: electromagnet, electromagnetic vibration, intensive vibration, water sector, amplitude, frequency

I. INTRODUCTION

In various fields of engineering and technology, highly efficient vibration and vibration impact machines are widely used. The variety of types and operating conditions of vibrating units determines the requirements for their basic structure, design and performance. In practice, various types are used - electromagnetic, inertial, eccentric, hydraulic, etc. The process of cleaning bulk and viscous masses from coarse fractions belongs to the field of intensive vibration technologies. The vibrating screens used in this case, equipped with eccentric or inertial drives, have significant disadvantages. At certain vibration frequencies, large forces of inertia arise in them, which are transmitted to the bearings of the eccentric or unbalanced shafts, which leads to their premature failure. In addition, the shaking mode of operation reduces the durability and wear resistance of the sieve cloth. To regulate the amplitude and frequency of oscillations in these drives, it is required to stop the machine and alter the eccentrics and unbalances [1].

II. SIGNIFICANCE OF THE SYSTEM

Recent residential and occupational epidemiological studies indicate a statistical association between 50-60 Hz magnetic field exposure and the risk of developing some kinds of tumors. Several experimental researches have been carried out in vitro and in vivo to verify the possibility that some cell functions may be influenced by ELF (Extremely Low Frequencies: 0-300 Hz) electric and magnetic fields. Such researches are very important to assess if the statistical association indicated by the epidemiological studies is actually due to a cause-effect relationship between ELF electric and magnetic fields and carcinogenesis. In this review we describe the present state of the experimental research, focusing our attention on the effects of ELF fields on the immune system. We also describe some theoretical researches whose aim is to identify possible mechanisms of interaction between ELF fields and biological systems which may provide biological plausibility to the observed effects [2].

More advanced electromagnetic oscillation exciters of reciprocating action, while the working body receives the necessary oscillatory movements without intermediate rotation mechanisms. The