

POSSIBILITIES OF COMBINED WAYS OF TREATMENT FOR SELECTED WASTE TYPES USING AN EXPERIMENTAL EQUIPMENT FOR PHYSICAL WASTE TREATMENT WITH THE INTENTION OF THEIR FURTHER USE

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This article presents possibilities of a unique device for industrial waste treatment using a patented process, and outlines possible future directions. This device, using different physical processes, individually or in synergy, e.g. combined effects of ultrasonic waves, focused microwave field, arc discharges, electrostatic field and the exposure to ultra-violet radiation, is intended to degrade dangerous substances in waste, reducing its hazardous properties for the environment and to prepare the waste for future applications (material or energy), i.e. separately or in combination with other technology processes, such as biotechnology.