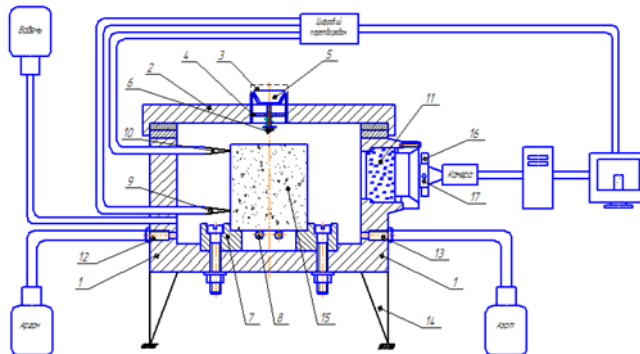




Course: Machine building

1. **Name of innovative development:** Mechanotron control system in the mode of self-propagating high-temperature synthesis.
2. **Purpose and scope:** Mechanotron control system in the mode of self-propagating high-temperature synthesis coordinates control of the processes of sintering, ensures the work of the SVS reactor in the mode of resource and energy saving. Application in metallurgical, chemical, food, machine-building and other industries.
3. **The main characteristics, the essence of development:** Application of the latest computer technologies and software products will allow the development of a new effective mechanical control system in the mode of self-propagating high-temperature synthesis, which coordinates the control of the processes of sintering, which will ensure the operation of the SVS reactor installation in the mode of resource and energy conservation.
4. **Comparison with the world analogues, the main advantages of development:** The proposed mechanotron control system in the mode of self-propagating high-temperature synthesis allows, in comparison with manual control, to increase 16% efficiency, including a 12% reduction in power consumption, to increase by 14% the sintering efficiency.
5. **The State of Intellectual property protection:** The patent of Ukraine for the utility model has been obtained.
6. **Demand on the market:** Development will allow to increase process productivity and quality of manufactured products.
7. **Condition of development readiness:** The SVS reactor was made. Have passed the appropriate tests in a research laboratory.
8. **Color illustrations, photo development:**



9. **Coordinators for communication:**
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