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по атомной энергии
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Russia's Federal Nuclear Center - Russia's Scientific and Research Institute of Experimental Physics (RFNC - VNIIEF) reviewed patent information, descriptive documents and the demonstration video on the «RKM – Rotation Piston Machine» technology presented on January 28, 2001.

The following conclusions are based on the review of the technology by the RFNC – VNIIEF technical experts:

1. The RKN technology is a new type of machine for the transformation of stored chemical or mechanical energy into mechanical motion. The underlying principle of the technology is the rotation of a multi-oval piston inside a multi-oval chamber around two alternating axes.
2. The RKM technology may be applied in internal combustion engines working on various types of fuels, in pneumatic and hydraulic motors, and in pumps. The technology could be developed for application in the following areas:
 - automobile manufacturing;
 - ship building;
 - aircraft manufacturing;
 - oil-and-gas industry and mining;
 - machine tools, agricultural machinery and consumer products;
 - generation of mechanical and electrical energy for a variety of applications.
3. The RKM technology could utilize the following sources of energy:
 - gasoline, kerosene, diesel fuels and other oil and coal products;
 - alcohol and other renewable organic fuels,
 - flammable gases, including hydrogen and methane;
 - fluids under pressure and compressed air (in hydro- and pneumatic motors).

4. The apparent main advantage of the RKM principle is the power density several times higher than in any existing internal combustion engine. As a result, power generators utilizing the RKM technology would be several times smaller and lighter than conventional engines, motors and pumps.
5. Estimates indicate that the efficiency ratio of the RKM machines would be several percentage points higher than in the machines using back-and-forth motion of the piston, and almost twice that of the Wankel rotary engine. The RKM technology also holds several other apparent advantages over existing technologies.

Integration into the RKM technology of state-of-the-art achievements in classic machine building, materials research, and other areas of science and technology is both desirable and feasible.

In the opinion of RFNC – VNIIEF, the RKM technology is substantially innovative and holds a significant potential for development and broad application.

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