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The concept of lava flow controlled use as a source of energy and materials

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Our civilization is facing an urgent need to include innovative, large-scale sources of energy and raw materials into its technological cycles. Alternative energy is not only the use of solar, wind and tidal seas, it is also the energy of volcanic magma, whose potential is underestimated and not yet used. This potential source is still inspires awe. To find ways to control the outflow of lava and use it for the needs of humans is a task of the nearest future. We propose a method of remote control of lava flow which is based on a special design of a pipe which is lowered into the crater of a volcano. The magma is raised with the help of a well-known method for raising liquids, the airlift. This article includes description of the new opportunities to use magma energy to obtain: a cheaper electricity from the superheated steam; hydrogen by electrolysis as energy storage method; variable dimension materials for construction with density from 150kg/m³ to 3000 kg/m³ by using it as raw material; fertilizers from the cooled magma; heat to transport by tankers thermos. There is potential for the establishment of a whole new industry that will produce cheap electricity, hydrogen, rare metals, fertilizers and innovative construction materials.

Biography

Anuar Kulmagambetov has graduated from Karaganda Polytechnic Institute in 1974. He is a Specialist in Automated Information Systems. In 1978, he did his Post-graduation from the Institute of Mathematics and Mechanics of Kazakhstan. In 1990, he was a Senior Scientist at the Institute of Control Science of the USSR Academy of Sciences. He has completed his PhD in Model Parallel Management of Databases. He has published more than 25 papers during this period.

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