Vetroy Anatoly Nikolaevich, author of the unique cognitive modeling technology

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THE FUNDAMENTAL RESEARCHES FINANCING BRANCH

"COGNITIVE MODELING IN THE EXACT SCIENCES" ("OEMMPU")

OF "THE SF "SFA CMT" NAMED AFTER N.A. PROKOPENKO"

The developed "The fundamental researches financing branch "Cognitive modeling in the exact sciences"" ("OEMMPU")

treats to the fundamental researches financing divisions of "The scientific fund "System and financial analysis based on cognitive modeling technology" named after N.A. Prokopenko"

("The SF "SFA CMT" named after N.A. Prokopenko" — The SF) as the first SF in structure of "The SIO "Academy of cognitive natural sciences" ("The SIO "ACNS""), an additional component of science and education system of the modern country for the financing of creation, distribution and use of the fundamental main and derivative scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru) [see the fundamental researches financing branches and departments of The SF!]) it is executed by the principle of "administrative-economy submission";

2) works in several main directions, which allow to provide the financing of development, production and promotion of the fundamental main and derivative scientific results (my second report on SRW from 2006-2008(9) y. was submitted to "The SP bSETU" LETI"" and The Government of The RF for the translation, carrying out of int. action and receiving of "The Nobel Prize");

3) in cludes several various main divisions:

"The fundamental researches financing department" "The theory of the (theoretical) mechanics and gyroscopes" ("SM") (") [the financing of fundamental researches financing department "The theory of the chanics, theory of mechanics, theoretical bases of formation of parametrical cognitive models block for the complex system analysis of objects, processes and phenomena of theoretical mechanics, theory of ways of representation of structure of cognitive models and problem envir theoretical bases of cognitive modeling technology in theoretical mechanics, theoretical bases of formation of parametrical cognitive models block for the complex system analysis of objects, processes and phenomena of theoretical mechanics, theory of ways of representation of structure of cognitive models and problem environments: formal classical of the 0th generation (logical and production models), nonformal classical of the 0th generation (semantic network, frame network and ontology), formal new of the 0th generation (calculus of theory of sets and corteges on domains and innovative calculus of theory of sets and graphs), nonformal new of the 0th generation (multilevel structural scheme and multilevel encapsulated pyramids combining theory of graphs and theory of sets), flat of the 1st generation (cognitive circle and cognitive disc), volumetric of the 1st generation (cognitive cylinder, cognitive cone and cognitive sphere), flat and volumetric of the 2th generation (one, two, three, four, five-and more cognitive cognitive disc, cognitive cylinder, cognitive cone and cognitive sphere), hybrid of the 3th generation (combinations of the existing cognitive models), theory of adaptive automation means of research of objects, processes and phenomena of theoretical mechanics, theory of technical means of the complex system analysis support of difficult objects, processes and phenomena of theoretical mechanics (automation means of formation and research of cognitive circle, cognitive disc, cognitive cylinder, cognitive cone, cognitive sphere and others), theory of factors influencing to efficiency of functioning of objects, processes and phenomena of theoretical mechanics, theory of research of parameters of parametrical cognitive models block, theory of research of parameters of parametrical cognitive models block, theory of choice of statistical analysis methods of generated data sets, the ory of an alysis of production and phenomena of theoretical mechanics, theory of dispersion, regression, discriminant, clus

the financing of fundamental researches and developments in area "Theoretical mechatronics" theoretical bases, general tasks and methods of theoretical mechatronics, theory of general theoretical mechatronics, theory of mechatronics of liquid and gas, deformable firm body, theory of complex and special sections of theoretical mechatronics, theory of automation means and devices of mechatronics, theory of cognitive modeling technology in theoretical mechatronics (theory of hygroscope building)]. II. "The fundamental researches financing department "The theory of the mechanical-engineering, instrument making and metrology"" ("SPMPU") [the financing of fundamental researches and developments in area "Theoretical mechanical-engineering" theory of machines engineering science and details of machines, theory of machine-building materials, theory of technology of mechanical engineering, theory of foundry manufacture, theory of forge-stamp manufactures, theory of assembly manufacture, theory of cutting of materials, theory of electrical-physical-chemistry processing, theory of thermal and strengthening processing, theory of furnish of surfaces and drawings of coverings, theory of manufacture of products from powder materials, theory of manufacture of nonmetallic products, theory of machine-tool construction, theory of robotics, theory of tool manufacture, theory of mining mechanical-engineering, theory of metallurgical mechanical-engineering, theory of reactor constriction, theory of turbine construction, theory of special power theory of chemical and oil mechanical-engineering, theory of locomotive construction and carriage building, theory of engine construction, theory of motor car building, theory of ship building, theory of aircraft building, theory of space technics and rocket building, theory of hoisting-transport mechanical-engineering, theory of building and road mechanical-engineering, theory of communal mechanical-engineering, theory of tractor and agricultural mechanical-engineering, theory of mechanical-engineering for light industry, theory of polygraphic mechanical-engineering, theory of mechanical-engineering for food-processing industry, theory of mechanical-engineering for trade and public catering, theory of household machines and devices, theory of manufacture of weapon, theoretical bases of other branches of mechanical-engineering, theory of cognitive modeling technology in theoretical mechanical-engineering;

the financing of fundamental researches and developments in area "Theoretical instrument making" - theoretical bases of instrument making, theory of general technology of production and equipment in instrument making, theory of designing and constructing of devices, theory of devices for measurement of electrical and magnetical sizes, theory of devices for measurement of mechanical sizes, theory of devices for measurement of time and frequency, theory of devices for measurement of composition (structure) and physical-chemical properties of substances and materials, theory of devices for thermal-technical and thermal-physical measurements, theory of devices for measurement of acoustical sizes and characteristics, theory of devices for measurement of optical and lighting-technical sizes and characteristics, theory of devices for measurement of ionization radiations, theory of devices of not destroying control of products and materials, theoretical bases of general structural elements, units of measuring devices and systems, devices of interface and office equipment means, theory of cognitive modeling technology theoretical instrument making; the financing of fundamental researches and developments in area "The ore tical motor " "The ory of scientific bases and technical means of theoretical metrology and metrological support, theory of state, national and international systems and services of metrology, theory of measurement of separate sizes and characteristics, theory of standard samples of structure and properties of substances and materials, theory of cognitive modeling technology in theoretical metrology (theory of measurement)].

III. "The fundamental researches financing department"." "The theory of the power engineering and electrical-engineering" ("SE")

[the financing of fundamental researches and developments in area
"The oretical power-engineering" ("SE") theory of power resources, theory of power balance, theory of electrical-power engineering (industry), theory of thermal-power engineering (industry), theory of thermal-power engineering (industry), theory of heating engineering, theory of a to mic engineering (industry), theory of water-power engineering (industry), theory of helium-power engineering (industry), theory of wind-power engineering (industry), theory of wind-power engineering (industry), theory of direct transformation of energy, theory of cognitive modeling technology in the oretical power-engineering; the financing of fundamental researches and developments in area "The oretical electrical-engineering" the theory of electrical-engineering, theory of electro-technical materials, theory of electrical machines, theory of electrical devices, theory of transformers and electrical reactors, theory of power electrical condensers, theory of electrical drive, theory of electrical-thermy, theory of electrical-welding equipment, theory of wire and cable, theory of electrical isolators, theory of light engineering, theory of electrical-technical equipment of special purpose, of cognitive modeling technology théoretical electrical-engineering The fundamental researches financing branches and departments of The SF allow to the financing of development, production and promotion

of the main and derivative scientific results of CMT.