

**ELECTRONIC INVENTION INFO  
7TH INT'L INVENTORS'S DAY (IID) VIRTUAL CELEBRATION  
2014, 13 JUNE, HUNGARY**

**1. BULGARIA: BULGARIAN UNION OF INVENTORS (SIB)**



**2. FIRST EVER PATENTED INVENTION IN BULGARIA**



Title: Electric cooking utensils

Patent info: Bulgarian Patent Office, Patent No. 1, issued 26.08.1921

INVENTORS: Boris Nagashev

DESCRIPTION:

**3. TOP THREE BULGARIAN PATENTED INVENTIONS IN THE 20<sup>TH</sup> CENTURY**



3.1

Title: METHOD FOR CASTING UNDER PRESSURE

Patent info: Inv.No. 187/1961; priority date 26.01.1961

Inventor: Angel Balevski, academic (1910-1998)

Description: Method of casting under pressure light metal alloys in which, under the action of a pressure difference, the molten metal from a furnace, disposed in a hermetically sealed chamber, is displaced via a feed tube for molten metal and fills the cavity of a casting mold, disposed in another hermetically sealed chamber, wherein before the filling of the cavity of the casting mold with molten metal, the latter is subjected to a temperature and a metallurgical pretreatment in two furnaces, which are then in succession brought in position of casting and, at the same time or later, the casting mold is brought to desired temperature parameters, the process of casting is performed, the cast body is removed from the casting mold and the cycle is repeated. The temperature of the casting mold, before and after its filling with molten metal, is regulated by controlling the powers of the cooling and the heating systems arranged within the casting mold. During the solidification of the cast body until its removal, there is regulated the deformation state of the system cast body mold by controlling the clearance and the force of seizing between the cast body and the walls of the casting mold.



3.2

Title: COMPENSATION PARAMETRIC PULSE VOLTAGE STABILIZER

Inventor: Dimitar Mishev, academic (1933-2003)

Patent info: BG Pat. No.51848; Priority date 22.05.1984

Description: The stabilizer is used in secondary current supply sources and in pulse stabilizing devices in space equipment, etc. It has improved dynamic features, close to those of the single contour compensation pulse stabilizer during step-wise increase of the output load. The stabilizer includes a pulse converting stage, connected to a rectifying-filter bloc, a compensating unit and a pulse modulator. The modulator is connected with a comparison device, connected with a reference voltage source and with the output of the rectifying-filter bloc. The output of the compensating unit and the output of a flip-flop are connected with both inputs of an electronic switch, whose output is plugged to the pulse modulator. The inlet of the flip-flop is connected to the output of a differentiating unit, the input of which is connected with the output of a current-sensitive element, whose input is switched to the output of the rectifying-filter bloc.



3.3

Title: MEANS FOR EPILEPSY TREATMENT

Patent info: BG Pat. 49743 ; Priority: 14.02.1992

Inventor: Dimiter Pamukoff, Prof. Dr., MD

Description: Author of 12 medical patents. His latest inventions Broncho Pam© and Immuno Broncho Pam© range are the first clinically proven preparations to cure asthma completely, which is a novelty in medicine. It is important to note that clinical studies have demonstrated that the formulas are without side effects. Asthma is a chronic, sometimes debilitating condition that is considered incurable. The Global Initiative for Asthma estimates that nearly 300 million people worldwide have asthma due to pollution and other factors. Rise has been noted in the last 10 years and it is estimated that additional 100 million people could be diagnosed with asthma by 2025. (Source: The Global Initiative for asthma. His latest patent is developed jointly with Dr. Roxandra Pamukoff Peterson, Epidemiology. Broncho Pam© and Immuno Broncho Pam© range is awarded with many international prizes for contribution to innovation and medicine.

#### 4. TOP THREE BULGARIAN PATENTED INVENTIONS IN THE 21<sup>ST</sup> CENTURY



4.1

Title: COMPOSITION OF BIODEGRADABLE NON-HALOGENATED FLAME RETARDANTS AND THEIR USE

Patent info: BG Pat. 66262; Priority date – 19.05.2009

Inventor: Lidia Kostova, Dr. – engineer, chemist, innovator and entrepreneur

Description: The invention relates to a biodegradable halogen-free flame retardants composition used for fire-safety and prevention, that limits and extinguishes fires by means of increased resistance to ignition, slowing down burning rates and the rate of heat, smoke and toxic gas release from polymers with different physical and chemical properties and structure, such as textiles, wooden materials, paper, cardboard, corrugated board, leather, cellular

polystyrene, foamed polyurethane, and items made of them. The composition according to the invention contains orthophosphoric acid, urea, triethanolamine, ammonia water, polydimethylsiloxane, surfactant, which may be anionic, cationic, amphoteric, non-ionic or mixtures thereof and water.