

Patents registered at OSIM (authors members of the research unit will be highlighted in bold font)

Label P#	Year registered (1)	Authors (i)	Patent title	Name of the patent office
P1	2007	Cecilia Podaru, Ioana Dinoiu, Gabriela Dragan, Marioara Avram	Ampermeter sensor for detecting glucose and process for carrying out the same	121575/30.11.2007
P2	2008	Ileana Cernica, Elena Manea, Ioana Dinoiu	Process for producing a light-sensitive microarray	121795/30.04.2008
P3	2009	Ileana Cernica	Process for making a PIN photodiode for fibre optic communications	122468/30.06.2009
P4	2009	Elena Manea, Podaru Cecilia, Cernica Ileana Viorica, Ciuciumiş (Matei) Alina, Moldovan Carmen Aura	Process for preparing matrix lattices of microcells on a glass substrate	122451 30.06.2009
P5	2009	Gabriel Moagar-Poladian	Process and equipment for conoscopic measurements, in thin optical anisotropic layers	122379 30.04.2009
P6	2009	Purica Munizer, Budianu Elena, Manea Elena	Process for making a detection photonic micro-structure, with optical micro-cavity	122387 30.04.2009
P7	2009	Gabriel Moagar-Poladian, Victor Moagar-Poladian	Structure intended for the thermal management of integrated circuits and microsystems	122466 30.06.2009
P8	2009	Kusko Mihai, Dumbrăvescu Niculae, Manea Elena, Podaru Cecilia	Process for manufacturing diffraction binary optical elements with phase contrast	122511 30.07.2009
P9	2009	Raluca Muller, Obreja Paula Virginia Nicoleta, Cristea Mihaela Dana, Manea Elena, Kusko Mihai	Process for making a silicon-integrated bio-sensor, with optical detection, with wave guide made of polymers	122382 30.04.2009
P10	2009	Victor Moagar-Poladian, Gabriel Moagar-Poladian	Structure for the adhesion of microsystems and integrated circuits	122467 30.06.2009

P11	2009	Simion Monica Liliana, Kleps Irina, Angelescu Anca, Ignat Teodora Magdalena, Miu Mihaiela Silvia, Bragaru Florentina Adina, Crăciunoiu Florea, Condac Eduard	Process for making a biochip having the function of amplifying specific dna fragments by polymerase chain reaction	122612 30.09.2009
P12	2009	Avram Marioara, Kleps Irina, Angelescu Anca	Process for making a spin valve transistor	122168/30.01.2009
P13	2009	Coraci Antonie, Podaru Cecilia, Manea Elena, Iancu Eremia, Moagar Poladian Victor	Process for manufacturing microfluidic devices	122449 30.06.2009
P14	2009	Manea Elena, Podaru Cecilia, Budianu Elena, Munizer Purica, Coraci Antonie, Popescu Alina	Process for manufacturing a high efficiency solar cell on monocrystalline silicon	122515 30.07.2009
P15	2010	Virgil Ilian, Lucian Galateanu, Marius Bazu, Liviu Mircea Ilian	Process for mechanically testing MEMS devices	122963 28.05.2010
P16	2010	Virgil Ilian, Lucian Galateanu, Marius Bazu, Liviu Mircea Ilian	Stand for the mechanical and climatic testing of micro-systems	122964 28.05.2010
P17	2011	Lucian Galateanu, Marius Bazu, Virgil Ilian	Structures with junction barriers based on the optical acceleration of generation-recombination at deep levels	126169 30.03.2011
P18	2008	T. Beica, S. Frunza, Rodica Moldovan, Irina Zgura, A. Dinescu,	Method, measurement cell and experimental setup for the determination of temperature dependence of optical birefringence of liquid crystals	122061B1/28.11.2008
P19	2011	Gabriel Moagar- Poladian	Microelectrodes for electrical discharges in gases and vacuum	Decizion 6/70 from 30.09.2011

(1) Between 2007 and 2011

Patent Requests registered at OSIM (authors members of the research unit will be highlighted in bold font)

RP#	Year registered (1)	Authors (i)	Patent title	Name of the patent office
RP1	2007	Gabriel Moagar-Poladian	Device for detecting infrared radiation	A-00239/ 03.04.2007
RP2	2007	Lucian Galateanu, Virgil Ilian, Marius Bazu, Nicolae Cimpoca	Constructive system for making microsensors based on microorganisms photosynthesis inhibition process	A-00329/ 17.05.2007 A-00751/ 30.10.2007
RP3	2007	Lucian Galateanu, Virgil Ilian, Marius Bazu, Cecilia Podaru	Micro-biosensor for diuron detection, based on photosynthesis inhibition at cyanobacteria	A-00330/ 17.05.2007 A-00752/ 30.10.2007
RP4	2007	Gabriel Moagar-Poladian	Method and device for determining the refractive index	A-00 668/ 26.09.2007
RP5	2008	Vasilica Schiopu, Ileana Cernica	Manufacturing Method for Yttrium Aluminium Garnet Cerium Doped used as phosphorous in Emissive Optoelectronics Applications	A-00060/ 25.01.2008
RP6	2008	Gabriel Moagar- Poladian	Procedure and system for measuring ultra-small displacements by using total internal reflection	A-00371/ 21.05.2008
RP7	2008	Vasile Obreja	Assembling and encapsulation method of power electronic modules	A-00703/ 11.09.2008
RP8	2008	Vasile Obreja	Supercapacitor and its manufacturing process	A-00704/ 11.09.2008
RP9	2009	Gabriel Moagar-Poladian	Nanostructured materials with electro-optical properties	A-00066/ 22.01.2009
RP10	2009	Gabriel Moagar-Poladian	Electric field sensor	A-00171/ 24.02.2009
RP11	2009	Gheorghe Sajin, Florea Craciunoiu, Andrei Muller, Alina Bunea	Method of controlled scanning of radiation characteristic of the microwave antenna with CRLH (Composite Right / Left Handed) cells by magnetic biasing	A-00281/ 1.04.2009
RP12	2009	Gheorghe Sajin, Florea Craciunoiu, Andrei Muller, Alina Bunea	Frequency tunable CRLH antenna structure by varying a magnetic biasing field	A-00282/ 1.04.2009
RP13	2009	Gabriel Moagar-Poladian, Victor Moagar-Poladian	Method for slicing semiconductor and dielectric wafers by using laser radiation	A-00404/ 27.05.2009

RP14	2009	Lucian Galateanu, Marius Bazu, Virgil Ilian	Proceeding for reliability selection of semiconductor chips with p-n junctions, based on the optical acceleration of generation-recombination at deep levels	A-00415/ 02.06.2009
RP15	2009	Gheorghe Sajin, Florea Craciunoiu, Andrei Muller, Alina Bunea	Method of controlled working frequency of microwave devices with CRLH (Composite Right / Left Handed) cells by magnetic biasing	A-00501/ 30.06.2009
RP16	2009	Gabriel Moagar-Poladian, Victor Moagar-Poladian	Calibration procedure of the cantilever thermal expansion in thermal dip pen nanolithography	A-00687/ 7.09.2009
RP17	2009	Cosmin Obreja, Elena Manea, Liliana Staicu	Device to hold and realize an electrical contact on a silicon wafer surface	A-00940/ 17.11.2009
RP18	2009	Paula Obreja, Elena Budianu, Dana Cristea, Mihai Kusko, Roxana Rebigan		A-01026/ 7.12.2009
RP19	2010	Ileana Cernica, Vasilica Schiopu, Alina Matei	Techniques for surface processing before metal deposition and photolithography on Langasite piezoelectric substrates in piezoelectric microsensor manufacturing	A-01026/ 7.10.2010
RP20	2010	Ileana Cernica, Florian Pestritu	Humidity, temperature and contaminants detection microsystem in corn and/or industrial plants stocking silos for small/medium farms	A-01042/ 2.11.2010
RP21	2010	Valentin Buiculescu, Dan Neculoiu, Alexandru Muller	Apparatus for signal processing from RFID cards with back-scattering modulation	A-01073/ 08.11.2010
RP22	2010	Lucian Galateanu, Marius Bazu, Virgil Ilian	Enzymatic microbiosensor for organophosphorus insecticides detection by a flow injection analysis	A-01264/ 30.11.2010
RP23	2010	Carmen Moldovan, Bogdan Firtat, Rodica Iosub, Dan Necula, Cornel Radu, Cecilia Codreanu	Miniaturized impedimetric sensor for pesticides detection	A-01355 /16.12.2010
RP24	2011	Gabriel Moagar-Poladian	Procedure of optically assisted 2D and 3D fountain pen nanolithography	A-00571/ 16.06.2011
RP25	2011	Gheorghe Sajin, A.Voicu, Mihaela Carp	Measurement method of the impedance of the metamaterial circuit structures with open-circuit or short-circuit transmission line stubs	A-00743/ 28.07.2011

RP26	2011	Gabriel Moagar- Poladian	Element for thermal and acoustic insulation	A-00778/ 04.08.2011
RP27	2011	Gheorghe Sajin, A.Voicu, Mihaela Carp	Metamaterial millimeter wave antenna matched with transmission line stubs	A-00792/ 8.08.2011
RP28	2011	Carmen Moldovan, Bogdan Firtat, Rodica Iosub, Dan Necula, Cornel Radu, Cecilia Codreanu, Nita Codreanu	Temperature, pH and dissolved oxygen miniaturized sensors for biological media monitoring	A-00803/ 10.08.2011
RP29	2011	Gabriel Moagar- Poladian	Procedure for obtaining semiconductor nanoparticles of the same size	A-01143/ 14.11.2011
RP30	2011	Marioara Avram, Ina Ruxandra Petrescu, Marius Andrei Avram, Antonio Marian Radoi	„Method for mapping of tumor tissues architecture based on gold nanoparticles surface plasmon resonance”	A/01255/28.11.2011
RP31	2009	F. Babarada, E. Manea , C. Ravariu	Fabrication procedure of silicon devices for detection and characterization of electrically charged biological molecules	A- 01023 / 07.12.2009
RP32	2011	Rodica Voicu, Mihaela Carp, Raluca Muller	Micro-switch device with ohmic contact for electrostatic actuation based on SU8 photopolymer: device structure and fabrication procedure	A/01256/28.11.2011

(1) Between 2007 and 2011