

## Patents list (2000-2020):

1. **V. Surducan**, E.Surducan, O.R. Bruj, G. Mihăilescu, Dispozitiv de încărcare, măsură și echilibrare prin comutare secvențială a acumulatorilor conectate în banc ([Device for accumulators charging, measure and balancing by sequential commutation](#)) **Patent pending A00363, 2019.**
2. A.Ciorîță, **V.Surducan**, E.Surducan, Dispozitiv fotografic pentru observarea în timp real a evoluției materialului biologic macroscopic *in vitro* ([Automated photographic device for real-time monitoring of in vitro biological samples](#)), **Patent pending A00053, 2019.**
3. **V. Surducan**, E.Surducan, C. Neamțu, Arie de senzori de temperatură pentru caracterizarea omogenității încălzirii alimentelor ([Temperature sensors array for characterizing food heating homogeneity](#)), **Patent pending: RO132883 (A0), 2018.**
4. **V. Surducan**, R. Gutt, E.Surducan, Dispozitiv microconvertor ridicător de tensiune și metodă de realizare a acestuia, ([Step up voltage micro-converter and method of manufacturing thereof](#)) **Patent pending A10036, 2018.**
5. S. D. Iancu, E.Surducan, **V.Surducan**, [Monolithic dual band antenna](#), **Patent pending: KR20180051494 (A), CN108140709 (A), EP3326214 (A1), US2017025757 (A1), WO2017015265 (A1), 2018.**
6. **V.Surducan**, E.Surducan, Automat mobil pentru micro-irigare cu măsurarea umidității solului și funcționare autonomă ([Mobile automatic micro-irrigation device with soil moisture measurement and autonomous operation](#)), **Patent pending: RO131669 (A0), 2017.**
7. A.Limare, E.Surducan, **V.Surducan**, C.Neamtu, E. Di Giuseppe, Microwave heating device, **Patent pending: RO131921 (A2), EP2947961 (A1), WO2015177244 (A1), 2017.**
8. E.Surducan, **V.Surducan**, C. Neamtu, [Broadband antenna and rectenna made therewith, for collecting electrosmog and converting the same into electric energy](#), **Patent pending: RO131697 (A0), 2017.**
9. **V.Surducan**, E.Surducan, D.Dadârlat, Aplicator de microunde cu arie de detectori integrați pentru măsurarea temperaturii, ([Microwave applicator with integrated detector area for temperature measurement](#)), **Patent pending: RO131080 (A2), 2016.**
10. **V.Surducan**, E.Surducan, N.Gligan, G.Blanita, Dispozitiv de reducere a pierderilor în rețele de apă ([Device for reducing losses in faulty water networks](#)), **Patent RO131580 (B1), 2016.**
11. C.D.Tudoran, **V.Surducan**, E.Surducan, D.Dadârlat, Sistem portabil pentru prepararea rapidă a biodiselului ([Portable system for quick preparation of biodiesel fuel](#)), **Patent pending: RO131127(A2), 2016.**
12. C.D.Tudoran, M.C.Tudoran, **V.Surducan**, E.Surducan, D.Dadârlat, N.I.Toșa, Reactor cu plasmă rece pentru obținerea biodiselului ([Cold plasma reactor for preparing biodiesel fuel](#)), **Patent pending: RO131043 (A2), 2016.**
13. E.Surducan, **V.Surducan**, Dispozitiv pentru conectarea unei camere la o incintă de tratament în câmp de microunde de putere pentru obținerea în timp real a imaginilor probei procesate ([Device for connecting a camera to a treatment enclosure under power microwave field for taking over in real time images of a processed sample](#)), **Patent RO129276 (B1), 2014.**
14. **V.Surducan**, E.Surducan, Driver universal pentru controlul motoarelor pas cu pas unipolare ([Universal driver for unipolar stepper motors](#)) **Patent RO128962 (B1), 2013.**
15. **V. Surducan**, E.Surducan, A. Limare, Bloc de stabilizare și control destinat alimentării curentului de filament al magnetronelor ([Stabilization and control block for the current filament supply of the magnetrons](#)), **Patent pending RO130089 (A2), 2013, Patent granted by OSIM decision 6/72 30.05.2019.**
16. E.Surducan, **V. Surducan**, Adela Halmagyi, Stimularea dezvoltării plantelor în câmp de microunde, ([Plant growth stimulation in microwave field](#)) **Patent RO125068 (B1), 2012.**
17. E.Surducan, **V.Surducan**, L. M. Soran, I. Bros, Metoda de separare cromatografică pe strat subțire în câmp de microunde și instalație pentru aplicarea acestei metode, ([Thin layer chromatography in microwave field and installation for](#)) **Patent RO123363 (B1), 2011.**
18. **V.Surducan**, E.Surducan, Sistem de alimentare pentru releu electronic pilotat de microcontroler ([Power supply for electronic relay, microcontroller driven](#)) **Patent RO126003 (B1), 2011.**

19. E.Surducan, **V.Surducan**, Metodă și traductor pentru măsurarea temperaturii în procesările efectuate în câmp de microunde de putere ([Method and transducer for temperature measurement in microwave power field processing](#)) **Patent RO125999 (B1), 2011.**
20. V. Coman, S. Kreibik, **V. Surducan**, P. Bodoga, V. Avram, Procedeu de obținere a sensidiscurilor pentru antibiograme ([Procedure for antibiogram sensidisk manufacture](#)) **RO00122152 (B1), 2009.**
21. E.Surducan, **V.Surducan**, Procedeu și instalație pentru procesare dinamică a substanței în câmp de microunde de putere ([Procedure and installation for dynamic processing of substance in microwave field](#)) **Patent RO112063 (B1), 2008.**
22. E.Surducan, S.Filip, **V.Surducan**, Metoda de activare a cauciucului de tip EPDM în plasmă de microunde ([EPDM activation method in microwave plasma](#)) **Patent RO116624 (B1), 2001.**
23. E.Surducan, **V.Surducan**, Procedeu și dispozitiv pentru încălzirea fluidelor fără pierderi dielectrice în câmp de microunde de putere ([Method and device for heating fluids without dielectric losses in the microwave power field](#)) **Patent RO116515 (B1), 2001.**
24. E.Surducan, **V.Surducan**, Traductor termografic pentru radiație de microunde de putere ([Thermographic transducer for power microwave radiation](#)), **Patent RO116506 (B1), 2001.**
25. E.Surducan, **V.Surducan**, G.Nagy, S.Filip, Instalație de tratament în câmp de microunde cu control de mod ([Treatment device in microwave field with mode control](#)) **Patent RO116514 (B1), 2001.**

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