

LISTA DE LUCRĂRI

Prof.univ.emerit dr.ing, POPESCU MIHAI OCTAVIAN

I. TEZA (E) DE DOCTORAT (T)

**Stingerea arcului electric de joasa tensune, 1983, conducator stiintific
prof.dr.doc.ing.Gheorghe Hortopan**

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V. BREVETE DE INVENȚIE / INOVAȚII SAU CREAȚII ARTISTICE (B,A)

B - Brevete de invenție.

Predescu M; Craciunescu A; Popescu M O; Popescu Claudia Patent RO126616-B1,Process for mounting the structures of photovoltaic systems on an irregular surface, such as the surface of a terrace of a building, with minimal arrangements

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obținute prin competiție, pe bază de

Pn – naționale

Director/responsabil

- 1.Cercetări interdisciplinare privind testarea asistată de calculator a echipamentelor electrice
- 2.Cercetări avansate, teoretice și experimentale privind îmbunătățirea performanțelor de comutație ale aparatelor de joasă și medie tensiune
- 3.Filtre active de putere cu convertoare statice
- 4.Cercetări interdisciplinare privind comutația curenților intensi, înregistrarea fenomenelor rapide și CEM
- 5.RAFER - Retea Academica a Facultatilor de Electrotehnica din România
- 6.Convertoare statice în regim de comutație - filtre active de putere
- 7.Sisteme expert pentru diagnoza echipamentelor electrice
- 8.SOCEC – Structuri optime ale convertoarelor în comutație cc-cc
- 9.Cercetări privind comanda eficientă a convertoarelor statice utilizate în tracțiunea urbană
- 10.GRAFSICON – Grafuri pentru modelarea convertoarelor electroenergetice
- 11.ECOSISTEL Cercetări privind ecosistemele electrotehnologice închise în contextual dezvoltării durabile.
- 12.Tehnologie de producere autonomă a energiei electrice cu module fotovoltaice în centrală de 30kWp conectată la rețea PV-GRID
- 13.NETROV Platforma de cercetare și tehnologică de dezvoltare a roboților subacvatici utilitari cu dezvoltarea unui minirobot pentru investigații subacvatice
- 14.Micromotor asincron monofazat cu poli ecranati, cu circuit magnetic neconventional
- 15.SAPET BIO Sisteme autonome avansate de producere a energiei electrice și termice utilizând biogazul ca sursă regenerabilă
- 16.SPCA-FV Soluții performante pentru realizarea echipamentelor destinate protecției catodice a structurilor metalice din zone izolate utilizând surse regenerabile

17. COGENEX Cercetari privind cresterea fiabilitatii grupurilor cogenerative si reducerea costurilor de productie prin cresterea gradului de automatizare si alinierea la normele comunitatii europene
18. ICEMECOS - Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor
19. MACSOLIN – 2006-2007 Mediul electromagnetic ambiant in cladiri cu centrale solare incorporate
20. CONEXEOL Dezvoltarea unui sistem inovativ de servicii de expertiza, analiza si consultanta in domeniul sistemelor eoliene conectate la retea
21. SIPECEI Sistem inteligent programabil pentru eficientizarea consumurilor de energie electrica in iluminatul public urban si rural
22. TOYROV Platformă tehnologică pentru construcția miniroboților subacvatici telecomandați prin cablu, utilitari și de agreement

Membru in echipa

1. Cercetari interdisciplinare privind modernizarea aparatelor de comutatie
2. CECOR – Cercetari privind impedanta de cuplaj a cablurilor coaxiale romanesti
3. VARROM _ Varistoare autonome romanesti
4. Studiu de evaluare a perturbatiilor electromagnetice din CHE
5. ASCEM- Aplicatii software de compatibilitate electromagnetica
6. Identificarea semnalelor de interferenta produse de sursele de alimentare de curent continuu
7. AMPELMAG Amprenta electromagnetica a surselor de poluare a mediului ambiant in zone rezidentiale
8. REMIL Dezvoltarea de sisteme modulare de alimentare cu energie electrică din surse regenerabile a unităților militare aflate în teatre de operații sau în garnizoana si a obiectivelor civile din zone fără retea electrică
9. Sistem hibrid de energie regenerabila bazat pe turbina eoliana cu ax vertical cu panouri fotovoltaice integrate si suspensie magnetica -WIPHRES
10. Un nou contactor de joasa tensiune, cu comutatie in vid, tip compact – New Vacuum Low Voltage Compact Contactor -NeWaLC

Pi - internationale.-

Director/responsabil

- 1,2 EXSYSTRADE - Expert System for Traction Drive Equipment -Joint Research Program P.U.B. - N.T.U. Athens

Membru in echipa

1. HIPOVAR –High Power Varistance, COPERNICUS EEC Programme
2. LOVARC- Low Voltage Arc High Vacuum Chambers NATO-STI EEC Programme
3. PV Enlargement ; FP 5 EEC Programme

F – Alte lucrări de cercetare – dezvoltare

Contracte de cercetare/consultanță - director/responsabil

1. Cercetari si experimentari privind imbunatatirea comutatiei la contactoarele de regim greu - Electroaparataj SA
2. Converteare de masura pentru convertizoare statice de putere- ICPE Tg.Mures
3. Elaborare standard SR EN 55015 Limite si metode de masura a perturbatiilor radioelectrice produse de corpurile de iluminat electric si echipamente similare- ASRO
4. Elaborare standard. SR EN 60555-1 Perturbatii produse in retelele de alimentare de aparatele electrocasnice si echipamente s imilare; Partea I-a Definitii
5. Elaborare standard SR EN 61000-3-2 Compatibilitate electromagnetica ; Limitele pentru emisiile de curenti armonici $I_n < 16 \text{ A}$
6. Elaborare standard 4. SR EN 61000-4-8 Compatibilitate electromagnetica; Incercari la campuri magnetice de frecventa industrială

Contracte de cercetare/consultanță - membru în echipă

1. Fiabilitatea aparatelor de joasa tensiune. Instalatii de incercare si metodologie
_ Electroaparataj SA
2. Fiabilitatea variatoarelor de turatie V3-2M- Electrotehnica SA
3. Balast pentru lampa cu aprindere rapida de 40 W- ROMIUX
4. Fiabilitatea convertizorului CMTR- Electrotehnica SA
5. Fiabilitatea convertizorului CMM-Electrotehnica SA
6. Determinarea marimilor electrice si fotometrice ale lampilor cu descarcari-ICSPM
7. Imbunatatirea performantelor tablourilor de distributie de tip DISTRIBLOC-
ICEMENERG
8. Comutatie neconventionala – contactoare cu vid , ICPE SA
9. Cercetari privind optimizarea lamelelor bimetal- Electroaparataj SA
10. Lampa speciala pentru detectarea cetii de ulei-INMT
11. Optimizarea pe calculator a proiectarii subansamblelor aparatelor electrice de comutatie- Electroaparataj SA
12. Cercetari si proiectari privind contactor si intreruptor cu vid- ICPE SA
13. Studii si cercetari in vederea realizarii statiei de incercari sintetice a intreruptoarelor de inalta tensiune- ICSIT MTAE Craiova
14. Cercetari si experimentari privind stabilirea fiabilitatii operationale a echipamentelor auto-Electroaparataj SA
15. Cercetari si model experimental de eclator cu trigger pentru statia de incercari sintetice- ICSIT MTAE Craiova
16. Cercetari privind procese de comutaie in vid- ICPE SA
17. Studiu privind stabilirea unor noi directii de cercetare in domeniul aparatelor electrice-ICPE SA
18. Studiu privind tehnica intreruperii curentilor intensi in vid avansat ICPE SA
19. Studiu tehnico-economic de fezabilitate privind baza materiala pentru incercari de compatibilitate electromagnetica. ICPE SA