

ARTICLES PUBLISHED IN ISI JOURNALS

1. Simulation of mechanical parameters of sprayer boom / 2018 / Proceedings of ENGINEERING FOR RURAL DEVELOPMENT / Manea D., Gidea M., Marin E., Mateescu M.
2. Energy Management System Designed for the Interconnected or Islanded Operation of a Microgrid Using LabVIEW Software (capitol în carte) / 2018 / Smart Microgrids, Chapter 3 / El-Leathey L.-A.
3. Rapid prototyping of the injection device piston used for fertigation using 3D printing technology / 2019 / Revista Materiale Plastice, vol. 56, nr. 4 / Șovăială Gh., Chiriță A.-P., Anghel S., Manea D.
4. Advanced electrochemical treatment of the wastewater from cattle farm / 2019 / Proceeding of the 47th International Symposium „Actual Tasks on Agricultural Engineering” / Ungureanu N., Vlăduț V., Istrate I.A., Zăbavă B.Șt., Tociu C., Ferdeș M., Dincă M.
5. Smart system to monitor water treatment based on Raspberry PI computer / 2019 / Proceeding of the 47th International Symposium „Actual Tasks on Agricultural Engineering” / Zăbavă B.Șt., Ipate G., Voicu Gh., Dincă M., Ungureanu N., Ferdeș M., Vlăduț V.
6. Effect of ozone on Salmonella enteritidis and Escherichia coli in contaminated water / 2019 / Proceeding of the 47th International Symposium „Actual Tasks on Agricultural Engineering” / Ferdeș M., Dincă M., Ungureanu N., Zăbavă B.Șt., Paraschiv G., Toma L., Tociu C.
7. Utilization of the thermohydric stress in the psamosols area in southern Oltenia through the cowpea culture / 2019 / Proceedings of 8th International Conference on Thermal Equipment, Renewable Energy and Rural Development TE-RE-RD / Drăghici R., Drăghici I., Diaconu A., Croitoru M., Paraschiv A. N., Dima M. and Constantinescu M.
8. Experimental research on irrigation by condensation in solarium / 2019 / Proceedings of 18th International Scientific Conference Engineering for Rural Development / Mircea C., Manea D., Marin E., Mateescu M.
9. Computer assisted simulation of forage chopping process / 2019 / Proceedings of 18th International Scientific Conference Engineering for Rural Development / Popa R., Popa V.
10. Exhaustive approach to livestock wastewater treatment in irrigation purposes for a better acceptability by the public / 2019 / AIP Conference Proceedings / Tociu C., Ciobotaru I.E., Maria C., Déák Gy., Ivanov A.A., Marcu E., Marinescu F., Savin I., Norazian Mohamed Noor.
11. Technological alternatives for the treatment of livestock wastewater in order to ensure the quality conditions required for the irrigation of agricultural crops / 2020 / AIP Conference Proceedings / Tociu C., Déák Gy., Maria C., Ciobotaru I.E., Ivanov A.A., Marcu E., Marinescu F., Savin I.
12. Tertiary treatment of livestock wastewater in the context of alternative water resources for sustainable agriculture / 2020 / Rev.Chim.(Bucharest) / Tociu C., Maria C., Déák Gy., Ciobotaru I.E., Ivanov A.A., Marcu E., Marinescu F.
13. Determining the optimal printing conditions for the production of a fertigation pump prototype with FDM technology” / 2020 / Materiale Plastice / Chiriță A.-P., Șovăială Gh., Barbu V., Blejan M., Pavel I. / în evaluare.
14. Capitalization of wastewater-grown algae in bioethanol production / 2020 / Proceedings of 19th International Scientific Conference Engineering for Rural Development / Ungureanu N., Vlăduț V., Biriș S.Șt.

15. Wastewater electrooxidation using stainless steel electrodes / 2020 / Proceedings of 9th International Conference on Thermal Equipment, Renewable Energy and Rural Development TE-RE-RD 2020 / Ungureanu N., Vlăduț V., Cristea M., Cujbescu D.
16. Water scarcity and wastewater reuse in crop irrigation / 2020 / Sustainability, special number "Sustainable Wastewater Treatment and Reuse" / Ungureanu N., Vlăduț V., Voicu Gh.
17. Hybrid RES Mobile Innovative System Optimized for DC-DC Applications (capitol carte) / 2020 / Solar Energy Conversion in Communities. Springer Proceedings in Energy. Springer, Cham / Onose B. A., Murgescu I., Sontea Ș. A.

ARTICLES PUBLISHED IN BDI JOURNALS

1. CAD-CAE model for the structural analysis of a drip tape injection equipment for subsurface irrigation. / 2018 / Proceedings of 24th edition - International Conference on Hydraulics and Pneumatics – HERVEX / Gheorghe G., Manea D., Mateescu M., Popa R., Popa V., Șovăială Gh.
2. Considerations on irrigation and fertilization of agricultural crops on sandy soils in arid, semiarid and dry sub-humid climate / 2018 / Proceedings of 24th edition - International Conference on Hydraulics and Pneumatics – HERVEX / Șovăială Gh., Matache G., Popescu A. I., Popescu A.M. C., Drăghici I., Manea D., Septar L.
3. Removal of pathogens from dairy wastewater by UV treatment / 2018 / Proceedings of 24th edition - International Conference on Hydraulics and Pneumatics – HERVEX / Ungureanu N., Vlăduț V., Ferdeș M., Zăbavă B.Șt., Dincă M.
4. Contributions to the development of the fertirrigation equipment field / 2018 / Proceedings of International Symposium ISB-INMA'TEH 2018, "Agricultural and Mechanical Engineering" / Șovăială Gh., Anghel S., Matache G., Popescu A., Radu O., Manea D.
5. Research on the treatment of livestock wastewater by oxidative degradation processes / 2018 / Tociu C., Maria C, Manea D., Constandache A, Ciobotaru I.E., Ivanov A., Marcu E., Marinescu F., Savin I.
6. Microbiological analysis of raw wastewater from a dairy farm / 2018 / Proceedings of International Symposium ISB-INMA'TEH 2018, "Agricultural and Mechanical Engineering" / Ungureanu N., Vlăduț V., Ferdeș M., Dincă M., Zăbavă B.Șt., Voicța I.
7. Advanced technologies for wastewater treatment by ozonation / Proceedings of International Symposium ISB-INMA'TEH 2018, "Agricultural and Mechanical Engineering" / Zăbavă B. Șt., Voicu Gh., Ungureanu N., Dincă M., Ferdeș M., Vlăduț V.
8. Comparative study of advanced wastewater treatment using electrochemical oxidation and photocatalysis methods / 2018 / Proceedings of International Symposium ISB-INMA'TEH 2018, "Agricultural and Mechanical Engineering" / Dincă M., Ungureanu N., Ferdeș M., Zăbavă B. Șt., Vlăduț V.
9. Studies on the need to apply irrigation to crops grown under sandy soils in southern Oltenia / 2018 / Proceedings of International Symposium ISB-INMA'TEH 2018, "Agricultural and Mechanical Engineering" / Draghici I.
10. Reuse of wastewater for irrigation, a sustainable practice in arid and semi-arid regions / 2018 / Proceedings of 7th International Conference on Thermal Equipment, Renewable Energy and Rural Development TE-RE-RD / Ungureanu N., Vlăduț V., Dincă M., Zăbavă B.Șt.
11. Wastewater disinfection by chlorination, ozonation and ultraviolet (UV) – a review / 2018 / Proceedings of 7th International Conference on Thermal Equipment, Renewable Energy and Rural Development TE-RE-RD / Zăbavă B.Șt., Voicu Gh., Paraschiv G., Dincă M., Ungureanu N., Ionescu M.

12. Factors that influence the efficiency of the decanting process – a review / 2018 / Proceedings of 7th International Conference on Thermal Equipment, Renewable Energy and Rural Development TE-RE-RD / Zăbavă B.Șt., Voicu Gh., Dincă M., Ungureanu N., Ferdeș M.
13. Microalgal systems for wastewater treatment – review / 2019 / Proceedings of 6th International Conference „Research People and Actual Tasks on Multidisciplinary Sciences” / Ungureanu N., Vlăduț V., Biriș S.Șt., Zăbavă B.Șt., Popa M.
14. Types of treatment plants for livestock wastewater / 2019 / Proceedings of 6th International Conference „Research People and Actual Tasks on Multidisciplinary Sciences” / Popa M., Ungureanu N., Vlăduț V., Biriș S.Șt., Zăbavă B.Șt.
15. Study of water turbidity determination using standard samples / 2019 / Proceedings of 6th International Conference „Research People and Actual Tasks on Multidisciplinary Sciences” / Zăbavă B.Șt., Voicu Gh., Ungureanu N., Dincă M., Ferdeș M., Safta V.V., Ipate G.
16. Considerations on intelligent irrigation solutions / 2019 / Proceedings of the Sixth International Conference Research People and Actual Tasks on Multidisciplinary Sciences / Mircea C., Manea D., Marin E., Popa R., Popa V., Covaliu C. I.
17. Emerging contaminants in wastewater / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Ungureanu N., Vlăduț V., Biriș S.Șt.
18. TiO₂ photocatalyst in wastewater treatment – review / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Ungureanu N., Biriș S.Șt., Vlăduț V., Zăbavă B.Șt., Popa M.
19. Technologies for wastewater disinfection / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Popa M., Ungureanu N., Vlăduț V., Zăbavă B.Șt., Biriș S.Șt.
20. Eco-technologies for wastewater treatment: constructed wetlands / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Popa M., Ungureanu N., Vlăduț V., Biriș S.Șt.
21. The use of plants in the wastewater treatment – a review / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Zăbavă B.Șt., Voicu Gh., Ungureanu N., Dincă M., Ferdeș M., Popa M., Matei D.D.
22. Computer aided analysis of the air flow created by the chopping drum from a forage harvester / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Popa R., Popa V.
23. Kinematic analysis of retractable fingers of a cereal combine harvester / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Popa V., Popa R.
24. Considerations on the precision mobile irrigation / 2019 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Popescu M., Manea D., Popa R., Popa V., Manole T., Jinga V.
25. Low power energy system for generating electricity from solar and wind sources / 2019 / Proceedings of 2019 International Conference on Hydraulics and Pneumatics - HERVEX / Șovăială Gh., Rădoi R.I., Matache G., Popescu A.I., Barbu V.
26. Mechanical-hydraulic control mechanism for differential piston injection devices / 2019 / Proceedings of 2019 International Conference on Hydraulics and Pneumatics - HERVEX / Șovăială Gh., Matache G., Anghel S., Popescu A.I., Necula C., Manea D.

27. Evaluation of the quality and availability for irrigation of water from different sources from southern oltenia / 2019 / ANNALS OF THE UNIVERSITY OF CRAIOVA. Series: Agriculture-Montanology-Cadastre, Vol. XLIX / Drăghici R., Croitoru M., Drăghici I., Diaconu A., Constantinescu M., Stoica M.M., Dima M.
28. Advanced treatment solutions intended for the reuse of livestock wastewater in agricultural applications / 2019 / IOP Conf. Series: Materials Science and Engineering / Tociu C., Deák Gy., Maria C., Ivanov A.A. , Ciobotaru I.E. , Marcu E. , Marinescu F. , Cimpoeru C., Savin I., Constandache A.C.
29. A review of the fertigation on the fruit trees / 2019 / Current Trends in Natural Sciences, nr. 8, issues 16/ Septar L., Stoli I.
30. Behaviour of maize plant to thermohydric stress in the area of sandy soils, according to the fertigation regime / 2020 / ANNALS OF THE UNIVERSITY OF CRAIOVA. Series: Biology, Horticulture, Food products processing technology, Environmental engineering, Vol. CCV (LXI) / Stoica M. M., Drăghici I., Drăghici R., Constantinescu M., Croitoru M., Paraschiv A. N., Băjenaru M. F.
31. Aspects regarding the treatment of slaughterhouse wastewater / 2020 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Ungureanu N., Vlăduț V., Popa (Ivanciu) M.
32. Nutrient removal from wastewater by microalgae *Chlorella vulgaris* / 2020 / Proceedings of International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering / Ungureanu N., Vlăduț V., Popa (Ivanciu) M.

PARTICIPATION IN NATIONAL / INTERNATIONAL CONFERENCES / SYMPOSIA

- International Conference on Hydraulics and Pneumatics – HERVEX, 7-9 noiembrie 2018, Băile Govora, România;
- International Symposium ISB-INMA’TEH 2018, Agricultural and Mechanical Engineering, 1-3 noiembrie 2018, București, România;
- The 14th Annual Meeting „Durable Agriculture – Agriculture of the Future”, 27-29 septembrie 2018, Craiova, România;
- 7th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), 31 mai -2 iunie 2018, Drobeta Turnu Severin, România;
- The 47th International Symposium Actual Tasks on Agricultural Engineering, 5–7 martie 2019, Croația, Opatija;
- 6th International Conference Research People and Actual Tasks on Multidisciplinary Sciences, 12 – 15 iunie 2019, Lozenec, Bulgaria;
- International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering, 31 oct. - 1 nov. 2019, București, România;
- The 15th Annual Meeting Durable Agriculture – Agriculture of the Future, 7-8 noiembrie 2019, Craiova, România;
- The 8th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Târgoviște, Romania, 6-8 iunie 2019;
- 5th International Conference on Green Design and Manufacture (IConGDM), Bandung (Indonesia), 29-30 April 2019;
- International Conference on Innovative Research (ICIR), Iasi, 16-17 May 2019;
- 7th International Conference Advanced Materials Engineering & Technology (ICAMET), Seoul (Korea), 29-30 November 2019;
- 19th International Scientific Conference Engineering for Rural Development, 20-22 mai 2020, Jelgava, Lituania (on-line);

- 9th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2020), 26-27 iunie 2020, Constanța, România (on-line).

PARTICIPATIONS IN FAIRS, EXHIBITIONS AND RESEARCH SALONS



Diplomă
se acordă

Dlui/Dnei: Manea D., Popescu M., Drăchici I., Murgescu I., Șovăială G.
din cadrul INMA București

Pentru: **Rampă de udare mobilă universală**
Cu ocazia participării la ediția a IV-a

UGAL INVENT
SALONUL INOVĂRII și CERCETĂRII
16-18 Octombrie 2019
Galați - România

Rector, **Prof. dr. ing. Iulian Gabriel Bîrsan**
Președinte Salon UGAL INVENT 2019, **Prof. dr. ing. Cătălin Fetcău**

Eveniment organizat sub patronajul
Ministerului Cercetării și Inovării

MOLDOVA AGCPI

Expoziția Internațională Specializată
„INFOINVENT”
Ediția a XVI-a

DIPLOMĂ
MEDALIA DE ARGINT

se acordă
DRAGOȘ MANEA, MARIAN POPESCU, IULIAN DRĂGHICI,
ION MURGESCU, GHEORGHE ȘOVĂIALĂ

pentru
RAMPĂ DE UDARE MOBILĂ UNIVERSALĂ

PREȘEDINTELE
COMITETULUI ORGANIZATORIC
PREȘEDINTELE JURILUI

20-23 noiembrie 2019,
Chișinău, Republica Moldova

SOCIETATEA INVENTATORILOR DIN ROMÂNIA

**Târgul Internațional de Invenții
și Idei Practice**

Se acordă **DIPLOMĂ DE PARTICIPARE**

pentru: Tehnologii inovative pentru irigarea culturilor în condiții de
climat arid, semiarid, și submed-uscăt

Autor(i) D. Manea, I. Murgescu, I. Draghici, C. Tociu, Gh. Șovăială,
Manole, M. Ungureanu, L. Septar

PREȘEDINTE JURIU, **Prof. univ. dr. ing. Marius Gabriel PETRESCU**
PREȘEDINTE S. I. R., **Prof. univ. dr. ing. Constantin Marin ANTOHI**

Plonești, 9 mai 2019

SALONUL INTERNAȚIONAL AL CERCETĂRII ȘTIINȚIFICE, INOVĂRII ȘI INVENTICII

PRO INVENT
EDIȚIA XVIII, 18-20 NOIEMBRIE 2020
CLUJ-NAPOCA

DIPLOMA
DE EXCELENȚĂ
ȘI MEDALIA DE AUR

Se acordă **DUMITRAȘCU Andrei, MARIN Eugen, MANEA Dragoș, GANEA-CHRISTU Ioan, POPA Vlad**

De la **Institutul Național de Cercetare-Dezvoltare pentru Mașini și Instalații destinate Agriculturii și Industriei Alimentare INMA București**

Pentru **SISTEM DE SCHIMBARE RAPIDĂ A ORGANULUI PENTRU DESCHIS RIGOLE ÎN VEDEREA ÎNGROPĂRII TUBURILOR / BENZILOR DE IRIGARE PRIN PICURARE**

PREȘEDINTELE SALONULUI, **Prof. dr. ing. VĂZDNE TOPIA**, Rector al Universității Tehnice din Cluj-Napoca
PREȘEDINTELE JURILUI, **Prof. dr. ing. RADU MUNTEANU**

SALONUL INTERNAȚIONAL AL CERCETĂRII ȘTIINȚIFICE, INOVĂRII ȘI INVENTICII

PRO INVENT
EDIȚIA XVIII, 18-20 NOIEMBRIE 2020
CLUJ-NAPOCA

DIPLOMA
DE EXCELENȚĂ
ȘI MEDALIA DE AUR

Se acordă **Manea Dragoș, Murgescu Ion, Șovăială Gheorghe, Tociu Carmen, Ungureanu Nicoleta, Manole Emilia Sofia, Gidea Mihai**

De la **Institutul Național de Cercetare-Dezvoltare pentru Mașini și Instalații destinate Agriculturii și Industriei Alimentare INMA București**

Pentru **GRUP DE POMPARE MOBIL PENTRU ALIMENTAREA INSTALAȚIILOR DE IRIGARE**

PREȘEDINTELE SALONULUI, **Prof. dr. ing. VĂZDNE TOPIA**, Rector al Universității Tehnice din Cluj-Napoca
PREȘEDINTELE JURILUI, **Prof. dr. ing. RADU MUNTEANU**

Diploma of Achievement
MEDAL INVENTICA 2020

Offered to
**D.MANEA1, M. POPESCU1, I. DRĂGHIC2, I.MURGESCU3,
Ghe. ȘOVĂIALĂ4 INMA București, ZSCDCPN Dăbuleni, SICPE-CA, 4INOE 2000**



National Institute Of Research - Development For Machines And
Installations Designed To Agriculture And Food Industry - INMA Bucharest
UNIVERSAL MOBILE WATERING BOOM

in recognition of high scientific contribution and loyalty to
the XXIV-th INTERNATIONAL EXHIBITION OF INVENTICS

INVENTICA 2020
Iasi, Romania

29-31 July 2020

GENERAL MANAGER
NATIONAL INSTITUTE OF INVENTICS
Prof. Neculai SEGHEDEM PhD

SILVER MEDAL

is presented to

TOCIU CARMEN, DEÁK GYÖRGY, MARIA CRISTINA, CIOBOTARU IRINA ELENA,
IVANOV ALEXANDRU ANTON, MARCU ECATERINA,
VLĂDUȚ NICOLAE VALENTIN, MANEA DRAGOȘ

for commending an excellent and creative effort to invent


METHOD FOR THE ADVANCED TREATMENT OF LIVESTOCK WASTEWATER


exhibited at the


PERLIS INTERNATIONAL ENGINEERING INVENTION & INNOVATION EXHIBITION
(PI-EN-EX) 2020

held on

MAY 18th - 21st, 2020
UNIVERSITI MALAYSIA PERLIS


PROFESSOR T.S. DR. MOHD MUSTAFA AL BAKRI ABDULLAH
 Chairman PI-EN-EX 2020
 Vice President World Invention Intellectual Property Associations




OKLEVÉL
Diploma


IDEA-EXPO 2020 Őtlet, Újdonság, Találmány,
 Nemzetközi kiállítás és vásár Hódmezővásárhely
 IDEA-EXPO 2020 IDEA, Novelty, Invention,
 International Exhibition and Fair, Hódmezővásárhely, Hungary


**Manea Dragoș, Popescu Marian, Drachici Iulian,
 Murgescu Ion, Sovaiala Gheorghe**
 (National Institute for Research-Development of Machines and Installations
 Designed for Agriculture and Food Industry – INMA Bucharest)
 România


Fedelőőrök/ Inventorok Creative
UNIVERSAL MOBILE WATERING RAMP
 Találmány-alkotás Invention-Creation

Sikeres bemutatással **IDEA**-díjjal részesít
 has been awarded the IDEA Award for its successful presentation

Hódmezővásárhely,
 2020-10-31


 Sigeș Zoltán
 Őtlet Club 19 Igazgatója elnöke


 Dan Iulian
 elnök




**SOCIETATEA INVENTATORILOR
 DIN ROMANIA**


**Târgul Internațional
 de Invenții și Idei Practice**

Premiul InnovaMotion Sensors

Autor: Manea Dragoș

Pentru **INVENȚIA / IDEEA DE AFACERI:**
RAMPĂ DE UDARE MOBILĂ UNIVERSALĂ

Laureat al Premiului Jurii
 Târgului Internațional de Invenții și Idei Practice - 2020
 INVENT - INVEST 2020
 18-30 decembrie 2020

Președinte Juriu,
 Prof.univ.dr.ing. **Radu MUNTEANU**
 Președinte SIR,
 Prof.univ.dr.fiz. **Constantin Marin ANTOHI**



INVENT - INVEST 2020


**SOCIETATEA INVENTATORILOR
 DIN ROMANIA**


**Târgul Internațional
 de Invenții și Idei Practice**

Diploma de Excelență jubilară „SIR-30”

Autori: Manea Dragoș, Murgescu Ion, Sovaială Gheorghe, Tociu
 Carmen, Ungureanu Nicoleta, Manole Emilia Sofia, Gidea Mihai


Pentru **INVENȚIA / IDEEA DE AFACERI:**
**Grup de pompare mobil pentru alimentarea
 instalațiilor de irigare**


Laureat al Premiului Jurii
 Târgului Internațional de Invenții și Idei Practice - 2020
 INVENT - INVEST 2020
 18-30 decembrie 2020

Președinte Juriu,
 Prof.univ.dr.ing. **Radu MUNTEANU**
 Președinte SIR,
 Prof.univ.dr.fiz. **Constantin Marin ANTOHI**



INVENT - INVEST 2020


DIPLOMA




AWARDED FOR
**SYSTEM FOR QUICK REPLACEMENT OF
 FURROW OPENING WORKING PART TO BURY
 DRIP IRRIGATION TUBING / TAPES**
 A – 00577 / 2019

**Dumitrașcu Andrei, Marin Eugen, Manea Dragoș,
 Ganea-Christu Ioan, Popa Vlad**
 National Institute for Research - Development of Machines
 and Installations designed for Agriculture
 and Food Industry

INTERNATIONAL EXHIBITION INVENTCOR
 DEVA 2020



DIPLOMA




AWARDED FOR
**MOBILE PUMPING GROUP FOR WATER SUPPLY
 OF IRRIGATION INSTALLATIONS**
 A – 00586 / 2019

**Manea Dragoș, Murgescu Ion, Sovaială Gheorghe,
 Tociu Carmen, Ungureanu Nicoleta, Manole Emilia
 Sofia, Gidea Mihai**
 National Institute for Research - Development of Machines
 and Installations designed for Agriculture and Food Industry

INTERNATIONAL EXHIBITION INVENTCOR
 DEVA 2020



PATENT APPLICATIONS FOR NATIONAL AND INTERNATIONAL LEVEL

1. Rapid change system of the organ for open streams for burial of drip irrigation tubes / bands / OSIM / A 00577/ 20.09.2019 / Dumitrașcu A., Marin E., Manea D., Ganea I., Popa V.
2. Drum for drip irrigation tube / OSIM / A 00497 / 14.08.2019 / Manea D., Popa R.
3. Mobile mechanical system of photovoltaic source for irrigation installations / OSIM / A 00730 / 12.11.2019 / Murgescu I., Onose B.A., Șontea St. A.
4. Universal mobile watering boom / OSIM / A 00566 / 13.09.2019 / Manea D., Popescu M., Drăghici I., Murgescu I., Șovăială Gh.
5. Process for advanced treatment of wastewater from livestock farms – EpurAgroTech/EchO / OSIM / A 00399/2019 / Tociu C., Deak G., Maria C., Ciobotaru I.E., Ivanov A.A., Marcu E., Vlăduț N.V., Manea D.
6. Mechano-hydraulic control mechanism / OSIM / A 00692/29.10.2019 / Anghel S., Șovăială Gh., Matache G., Manea D.
7. Mobile pumping group for supplying irrigation systems / OSIM / A 00586 / 24.09.2019 / Manea D., Murgescu I., Șovăială Gh., Tociu C., Ungureanu N., Manole E., Gîdea M.
8. Autonomous pumping device for fertigation / European Patent Office / Application number EP20020494.9, 27 October 2020 / Pavel I., Șovăială Gh., Matache G., Necula C., Manea D.

WORKSHOP 2019

On the occasion of the International Symposium ISB INMATEH - Agricultural and Mechanical Engineering, on October 31, 2019, at the headquarters of INMA Bucharest, the Workshop was organized with the theme *The current stage regarding the results of the Complex Project INNOVATIVE TECHNOLOGIES FOR IRRIGATION OF AGRICULTURAL CROPS IN ARID, SEMIARID AND SUBHUMID-DRY CLIMATE - SMARTIRRIG*, attended by the partners from the consortium, teachers (Cluj-Napoca Technical University, University of Craiova, USAMV Timișoara) and representatives from the economic environment (NHR Agropartners, Maschio Gaspardo Romania).



Aspects during the Workshop 2019

WORKSHOP 2020

On 15.07.2020, at the headquarters of the partner SCDCPN Dăbuleni was organized a workshop to which were invited interested specialists from the partners in the complex project, as well as local farmers, potential beneficiaries. The project director presented the results obtained within the complex project (underground irrigation / fertigation technology, innovative mobile system for power supply of irrigation and fertigation installations using photovoltaic and wind energy, precision mobile irrigation system), highlighting the advantages, the principle of operation, the composition, the main technical characteristics, the working parameters and the economic effects of the implementation in operation. During the practical demonstration, the necessary operations for

commissioning, the necessary adjustments were presented and the tests were performed in the working plot prepared for this purpose.



Aspects during the Workshop 2020