

The graphic features a stylized globe with a grid of dots and lines, overlaid on a city skyline silhouette. The text 'enterprise europe' is written in a white, lowercase, sans-serif font across the bottom of the graphic.

enterprise europe

Boletín de Oportunidades de Cooperación: Emergentes

Boletín nº 140
Febrero 2016



Agencia Andaluza del Conocimiento
CONSEJERÍA DE ECONOMÍA Y CONOCIMIENTO



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Otras Tecnologías Industriales

Research & Development Request

A surface metrology company is seeking an SME for Eurostars application consortium

Summary

An SME from Latvia operating in the surface metrology field has developed a new generation ultra-high performance non-contact surface metrology instrument with capabilities well beyond those of existing technology. The company seeks an SME partner from Germany, Sweden or United Kingdom - an end-user of the technology - for the Eurostars program application.

Creation Date 07 January 2016
Expiration Date 22 January 2017
Reference RDLV20151215001

Details

Description

The rapid development and miniturization of consumer electronics demands new measurement challenges arise each year that existing metrology solutions cannot address. For example, the slightest deviation from the intended size of a smartphone's internal components can lead to thousands of smartphones being impossible to assemble.

The company is a surface metrology R&D company operating out of Riga, Latvia. It has developed

a new generation of ultra-high performance, non-contact surface metrology instruments based on a unique technology of white light optical interferometry. The company is going to develop a project proposal for Eurostars-2 programme.

An SME partner from Germany, Sweden or United Kingdom is sought for the project consortium.

This SME would be a potential end-user of the technology, e.g. integrating it into their production line to address prevailing metrology needs.

Deadline of the call is February 18, 2016.

Deadline for expression of interest is January 15, 2016.

The expected duration of the project is two years.

Advantages and Innovations

The profilometer offers a number of unique capabilities in comparison with the existing ones:

- A very high operating speed and large field of view, allowing the entire sample to be imaged quickly.
- A large step-height (vertical component view), for detailed analysis of discontinuous surfaces.
- The ability to make measurements from a distance up to 1 m, meaning that large surfaces can be measured with the instrument being moved, rather than very heavy objects having to be moved.
- An integrated anti-vibration algorithm that removes the need of additional, highly-expensive equipment to ensure measurement stability.

Technical Specification or Expertise Sought

The company seeks industrial applications of the technology. The partner SME should be able to identify requirements and technical specifications, so that the profilometer can be adjusted and integrated into its manufacturing process.

Stage of Development

Field tested/evaluated

Comments Regarding Stage of Development

The company has a functioning lab prototype that has successfully performed measurements for one of the largest global HDD manufacturers. The technological readiness level (TRL) is 6.

IPR Status

Secret Know-how, Patent(s) applied for but not yet granted

Comment Regarding IPR status

Plan to submit PCT by September 2016.
Measurement algorithms are Secret know-how.

Keywords

Technology

| | |
|----------|--|
| 03003 | Apparatus Engineering |
| 05003002 | Optics |
| 05005 | Micro- and Nanotechnology |
| 09001007 | Optical Technology related to measurements |

Market

| | |
|----------|---|
| 03005 | Laser Related |
| 03007003 | Other analytical and scientific instrumentation |
| 08002002 | Industrial measurement and sensing equipment |
| 08006001 | Process control and logistics |
| 09003001 | Engineering services |

NACE

| | |
|----------|---|
| M.71.2.0 | Technical testing and analysis |
| M.72.1.9 | Other research and experimental development on natural sciences and engineering |

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME ≤ 10

Turnover

<1M

Partner Sought

Type and Role of Partner Sought

Type of partner sought: an SME facing a metrology challenge, operating in the field of development of metrology solutions or a provider of metrology services. The company should meet Eurostars criteria.

Tasks to be performed by the partner sought: To define technical requirements for solving the existing metrology challenges, to help specify how the profilometer has to be adjusted for integration into the production or service line and implement the technology.

Type and Size of Partner Sought

SME 11-50, SME <10, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Technology Offer

Innovative patented technology for inorganic waste volume reduction

Summary

An Italian SME specialised in innovative solutions for waste valorisation has patented a new system to reduce the volume of inorganic waste which could be applied to industry, commercial activities and private users. This is a low cost production technology which allows to reduce waste volumes over 95%. Partners for license agreements or technical cooperation are sought.

Creation Date 15 January 2016
Expiration Date 22 January 2017
Reference TOIT20160112001

Details

Description

An Italian SME specialised in innovative solutions for waste valorisation has developed and patented a new system to reduce the volume of inorganic waste. The system can be applied to industry, commercial activities and private users and therefore the Italian company is looking for partners interested in adapting the technology to their needs or might be interested in further development through technical cooperation. The company is also interested in license agreements for their patented technology.

The technology patented by the company allows to cut plastic bottles, aluminium cans and glass bottles in pieces of 1 centimeter of diameter and consequently the volume waste can be reduced by over 95%. The system might be adapted to other machines treating waste or it might be used as a separate machine. The system can be used at home as a household appliance, near drink vending machines for minimizing this kind of waste, in the horeca field as a support for kitchens in restaurants or hotels or for ships and caravans because of their low space availability for waste.

The system is the result of years of study and research and it has been actually patented at international level and industrialized, so it is ready for the market.

The system represents an alternative to other expensive systems known today as the compaction one.

Comparing the cost of compactors with the cost of the presented system, the latter is 30% lower. This technology also allows to insert in the same machine different materials, for example glass, plastic, aluminium or paper to obtain waste volume reduction and dramatically decrease the frequency of delivery of waste for collection. Consequently, there are several benefits resulting from the technology use, starting from the needed space reduction for waste storage up to the environmental benefits resulting in a smaller amount of travels that collection means must perform. Furthermore, all recovered waste will be already pre-processed and will suffer less processing to become a new product, so there will be an evident overall lower production of pollutant emissions.

Advantages and Innovations

Normally, industrial cutting technologies are expensive and it is necessary to use very large engines to process waste. Other used technologies are compaction systems which allow anyway limited volume reduction.

The cutting technology proposed by this company combines the possibility of using small engines with a more effective waste reduction (the initial volume can be reduced by more than 95%).

For example, in a bag waste of 120 liters size, by using a compaction system, it is possible to contain about 290 0.5 liters plastic bottles, whereas this technology allows a 120 litres size bag waste to contain about 600 plastic bottles.

Another important feature of this technology is related to the one centimeter pieces resulting from this cutting system. These pieces are raw materials ready to be reused for new products. Without performing further processing it is thus possible to create a short, economic and environmentally sustainable recycling process.

Stage of Development

Already on the market

IPR Status

Patent(s) applied for but not yet granted, Copyright

Comment Regarding IPR status

International patent application

Keywords

Technology

| | |
|----------|---|
| 03010 | Household Goods & Appliances |
| 10002013 | Clean Production / Green Technologies |
| 10003004 | Recycling, Recovery |
| 11001 | Socio-economic models, economic aspects |
| 11008 | Creative services |

Market

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|----------|---------------------------------------|
| 07002005 | Other retailing |
| 07004008 | Other consumer products |
| 07005001 | Fast food restaurants |
| 07005003 | Hotels and resorts |
| 08004004 | Other pollution and recycling related |

NACE

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|----------|--|
| C.24.1.0 | Manufacture of basic iron and steel and of ferro-alloys |
| C.28.9.9 | Manufacture of other special-purpose machinery n.e.c. |
| E.38.1.1 | Collection of non-hazardous waste |
| E.38.3.2 | Recovery of sorted materials |
| E.39.0.0 | Remediation activities and other waste management services |

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:
Companies

- Specific area of activity of the partner:
Manufacturers and any companies active in home appliances, horeca, vending machines, naval, caravan, recycling, waste valorization

- Task to be performed by the partner sought:
Companies operating in the above mentioned sectors might be interested in adapting the technology to their needs or might be interested in further development through technical cooperation. The company is also interested in license agreements for their patented technology.

Type of Partnership Considered

License agreement
Technical cooperation agreement

Technology Offer

Ultrasonic antifouling method and apparatus for cooling circuits of ships and yachts

Summary

An Italian company has invented an ultrasonic method and apparatus to prevent the formation of marine flora and fauna within the cooling circuit of ships and yachts. The system complies with the relevant international standards for maritime applications and pollution requirements. No harmful chemicals are used and the apparatus can be integrated into existing systems. The energy consumption is limited compared to other technologies. The company is looking for a technical cooperation agreement.

| | |
|-----------------|------------------|
| Creation Date | 21 April 2015 |
| Expiration Date | 01 February 2017 |
| Reference | TOIT20150409001 |

Details

Description

An ultrasonic antifouling system developed by an Italian company permits to prevent the formation of marine flora and fauna within the cooling circuit of ships and yachts. The implemented solution is easy to apply and consists of an ultrasound generator connected via ordinary cables to a series of transducers distributed along the pipe lines and the filter of the cooling systems. Transducers can be connected to existing systems by means of a welded stainless steel sleeve. Thanks to such steel sleeve, transducers can be applied without drilling the pipes and operate with no direct contact with the sea water running through the pipes. This makes the system safer and more reliable and the installation can be done while the ship is normally operating.

The ultrasonic waves vary from 17,000 to 25,000 Hz and are spread through the cooling circuit in order to create a sort of antihabitat for the marine flora and fauna. This results in a reduction by 80 to 90% of the flora and fauna within the system.

The proposed system complies with the relevant national and international standards (i.e. the U.S. Coast Guard Pollution and Sanitation Requirements for Foreign Flag Vessels). Compared to most commonly used technologies, this solution does not use liquid chemical additive or toxic substance but non-destructive vibration at high frequency without causing damages or relevant alterations to the marine environment.

The company is looking for a technical cooperation agreement with system integrators dealing with industrial plants engineering and manufacturing. The potential partner should be experienced with water-based cooling systems and water-based industrial plants.

The proposed technical co-operation should focus on exploring further application areas such as:

- Power plants with cooling systems based on sea water
- Fire Fighting Pumps/ Plant operating with sea water
- Osmosis plants.

If needed the partner will be trained first and then will be asked to provide proper technical feedback for adapting, tuning and installing the system into the above mentioned areas.

Advantages and Innovations

- 100% Ecological system
- No harmful chemicals
- No parts to be replaced periodically
- Low power consumption
- Easy installation into existing systems.
- Low Cost

Stage of Development

Already on the market

IPR Status

Secret Know-how

Keywords

Technology

| | |
|----------|------------------------------------|
| 02009005 | Shipbuilding |
| 03003 | Apparatus Engineering |
| 05003001 | Vibration and Acoustic engineering |
| 10004009 | Marine Environment |

Market

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|----------|--|
| 03004002 | Components testing equipment |
| 05008001 | Marine products |
| 08003007 | Other industrial equipment and machinery |
| 08004004 | Other pollution and recycling related |
| 09001007 | Other transportation |

NACE

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| M.74.9.0 | Other professional, scientific and technical activities n.e.c. |
|----------|--|

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME ≤ 10

Turnover

<1M

Partner Sought

Type and Role of Partner Sought

System integrators dealing with industrial plants engineering are sought

- Specific area of activity of the partner: water based cooling systems, water based industrial plants.

Technical co-operation: the company would like to explore further application areas such as:

-Power plants with cooling systems based on sea water

- Fire Fighting Pumps/ Plant operating with sea water

- Osmosis plants. The potential partner is supposed to be experienced on such new areas. The partner will be trained first and then will be asked to provide a proper technical feedback for adapting, tuning and installing the system into the above mentioned fields.

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

Radio transmission technique with two free space modes

Summary

A German University developed a radio transmission technique that exploits two free space modes of the same frequency for transmission. The main advantages are a simple design that reduces the number of devices and a reduction of power consumption. The German University offers licenses to companies active in the communication sector or the possibility of a technical cooperation in order to advance the technology.

| | |
|------------------------|------------------|
| Creation Date | 20 January 2016 |
| Expiration Date | 03 February 2017 |
| Reference | TODE20160120001 |

Details

Description

Most current radio transmission techniques use locally generated signals for the demodulation of the received signals. The electronic devices like synthesizers and local oscillators needed for the demodulation are expensive and require much space.

A German university offers a technique that exploits two free space modes of the same frequency for transmission. In addition to the wanted signal the emitter provides a signal at the same frequency for the demodulation, which is orthogonal to the wanted signal. Thus there is no need for a local oscillator or a synthesizer in the receiver, which means significant reduction in the number of electronic devices. Besides this the requirements on the transmitter oscillator are much less than in conventional system as wanted signal and demodulation signal originate from the same source. Additionally there is also a significant decrease of power consumption. Especially in the GHz-range this technique has obvious cost advantages. It can be used with almost all modulation schemes and it is insensitive to the Doppler effect as the signal for demodulation is sent with the wanted signal.

An interesting field of application is short range transmission like car to car communication, RFID-technology or chip to chip communication to replace connections by wire.

Industrial partners from the communication sector are sought for licensing or technical co-operation to adapt the technology to their applications and to advance it.

Advantages and Innovations

- Simple design: Compared to conventional systems there is a reduced number of devices
- Power consumption is reduced
- Low requirements to sender oscillator
- Applicable to the most modulation schemes
- Simple application

- Up to the high GHz-range
- Insensible to Doppler-effect

Stage of Development

Available for demonstration

IPR Status

Patents granted

Comment Regarding IPR status

Patents are granted in Europe, the US and Japan.

Keywords

Technology

| | |
|----------|------------------------------|
| 01006009 | Signal Processing |
| 03007 | Sound Engineering/Technology |

Market

| | |
|----------|---|
| 01006005 | Other communications (not elsewhere classified) |
|----------|---|

NACE

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|----------|---|
| M.72.1.9 | Other research and experimental development on natural sciences and engineering |
|----------|---|

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Partner Sought

Type and Role of Partner Sought

The University offers innovative companies active in the communication industry the possibility of licensing or a technical cooperation in order to advance/adapt the technology to their processes and requirements.

Type of Partnership Considered

License agreement
Technical cooperation agreement

Technology Offer

Biocompatible aminoacid cationic surfactants

Summary

A Spanish research institution has developed a new family of biocompatible cationic surfactants derived from histidine with enhanced surface properties, no toxicity and antimicrobial and antifungal activity. These compounds could be used in food, cosmetic, biomedical and pharmaceutical applications. Companies interested in patent licensing and/or in research collaboration for the development of these surfactants' applications are sought.

| | |
|------------------------|------------------|
| Creation Date | 14 December 2015 |
| Expiration Date | 09 February 2017 |
| Reference | TOES20151214002 |

Details

Description

Surfactants are one of the most representative chemical products, used in a great number of basic and industrial applications. However, as they can adversely affect aquatic environment, there is an increasing demand for novel environmentally friendly surfactants from renewable resources.

Surfactants derived from amino acids are compounds of great interest due to their "natural" origin, multifunctional capabilities and safety profile. A new family of cationic surfactants based on the histidine aminoacid is presented, showing an enhanced surface-activity and good antimicrobial and antifungal activity comparable to conventional cationic surfactants. These features together with their high biocompatibility make them as perfect candidates to be used in surfactant formulations.

Structurally, these compounds are built by combination of non-polar long chains with histidine to form linear and gemini amphiphilic structures. Both types of structures exhibit a good antimicrobial profile against several bacterial species both Gram-negative and Gram-positive. The Spanish research center has broad experience in the development surfactants. The center is searching for companies that could be interested in the use of these surfactants for industrial application, under a patent license. Companies interested in this technology should carry out either by themselves or through research collaboration with this organization some further work to reach the market for tailored applications.

Advantages and Innovations

The main advantages of this family of surfactants are:

- Simple structure based on renewable raw materials.
- Low toxicity in comparison to classical quaternary ammonium surfactants (QUATS)
- Extraordinary ability to aggregate, with micellization at low concentrations (CMC at μM range).
- Antimicrobial activity tested, showing low levels of minimal inhibitory concentration (MIC) against many Gram-positive and Gram-negative bacteria.
- Due to their emulsifying and antimicrobial capacity these surfactants could be used as

alternatives to conventional surfactants in cosmetic and personal care formulations, in food preservation or in biomedical applications.

Stage of Development

Under development/lab tested

IPR Status

Patent(s) applied for but not yet granted

Keywords

Technology

| | |
|----------|----------------------------------|
| 03001001 | Cleaning Technology |
| 03004009 | Soaps, detergents |
| 03004010 | Special chemicals, intermediates |
| 03004011 | Care, Hygiene, Beauty |

Market

| | |
|----------|--|
| 07004002 | Health and beauty aids |
| 07004008 | Other consumer products |
| 07006 | Other Consumer Related (not elsewhere classified) |
| 08001023 | Other chemicals and materials (not elsewhere classified) |

NACE

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|----------|--|
| M.72.1.1 | Research and experimental development on biotechnology |
|----------|--|

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: SME or multinational

- Specific area of activity of the partner - Manufacture of household cleaning products.
Manufacturers of ingredients for cosmetic use.
Surfactants producers. Pharma industry

- Task to be performed by the partner sought: development of industrial applications to reach de market

pecific area of activity of the partner - Manufacture of household cleaning products.
Manufacturers of ingredients for cleaning products

Task to be performed by the partner sought - Evaluate the technology and consider technical cooperation or licensing

Type of Partnership Considered

License agreement

Research cooperation agreement

Technology Offer

A fully automated contact printer for nanopatterning based on soft lithography

Summary

A biomedical instrumentation focussed French SME is developing and commercializing equipment for nanopatterns fabrication by microcontact printing (or stamping). The heart of this innovation is based on a magnetic stamp. The SME is looking for commercial agreement with technical assistance, technical cooperation agreement, and licensing preferably in Japan.

Creation Date 16 December 2015
Expiration Date 13 January 2017
Reference TOFR20151216001

Details

Description

A French SME, very active in R&D with more than 30% of its annual turnover invested for innovative projects, is focussed on biomedical applications. The company is developing and commercializing equipment for nanopatterns fabrication by microcontact printing (or stamping).

Others existing technologies deal with micro or nanopatterning. For example, ink jet printing is a similar technology. Its drawbacks compared to the microcontact printing are:

- the low resolution (ink jet: 20µm, microcontact printing: 100nm)
- the protocol optimization

As another example, the electron beam lithography has a much higher resolution than the microcontact printing (10nm VS 100nm). However, the cost of these equipment is more expensive and the scaling-up and industrialization is very complex.

With this technology and this equipment, there is a compromise between nanometric resolution of patterns, industrialization and the cost of equipment.

This technology has a larger range of applications (biosensor, flexible electronics, semiconductor, surface chemistry, ...).

The product is already on the market.

The heart of this innovation is based on a magnetic stamp.

It has an application lab with a French academic lab in order to study proof-of-concept. It has access to facilities as clean room, cell culture, ...

The SME is looking for commercial or technical partnership to develop this activity to Japan. For example, a partnership with a company working on Nano characterization could be studied in order to propose a nano-platform, or OEM contract could be discussed.

Advantages and Innovations

Compared to the existing solutions, the main advantages of this technology are:

- A full automation of the process. (usually, it is done by hand)
- Various inks can be printed
- A nanometric resolution
- High process reproducibility
- Easy Scaling up/easy valorization of R&D activity
- Unlimited surface size for printing
- Compatible with various type of substrates
- No loss of know-how
- A low-cost technology

Stage of Development

Already on the market

IPR Status

Secret Know-how, Patent(s) applied for but not yet granted, Patents granted, Trade Marks

Comment Regarding IPR status

Patents have been granted in Japan.

Keywords

Technology

| | |
|----------|--|
| 01002001 | Micro and Nanotechnology related to Electronics and Microelectronics |
| 02002013 | Moulding, injection moulding, sintering |
| 02002016 | Microengineering and nanoengineering |
| 03003 | Apparatus Engineering |
| 06004 | Micro- and Nanotechnology related to Biological sciences |

Market

| | |
|-------|--|
| 04017 | Micro- and Nanotechnology related to Biological sciences |
|-------|--|

NACE

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|----------|---|
| C.32.5.0 | Manufacture of medical and dental instruments and supplies |
| M.72.1.9 | Other research and experimental development on natural sciences and engineering |
| M.74.9.0 | Other professional, scientific and technical activities n.e.c. |

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: company working on nano-characterization, industrial company with needs of nanopatterning
- Specific area of activity of the partner: company interested by license and working with R&D lab dealing with nanotechnology, industrial company working on nanotechnology and more specially nanocharacterization
- Task to be performed by the partner sought:
for company working on nano-characterization, the SME wishes to develop a nano platform based on its patterning tools and the partner characterization tool.
for industrial company with needs of nanopatterning, we propose to evaluate the adequation of our technology to their needs.

Type of Partnership Considered

License agreement
Manufacturing agreement
Commercial agreement with technical assistance
Technical cooperation agreement

Technology Offer

Adaptive controller algorithms to reduce non-productive time and operational costs of complex industrial processes.

Summary

A Latvian company has developed adaptive advanced-process-control (APC) algorithms that allow to reduce up to 10 times the process engineers' work time at the start-up of industrial processes, and also to increase process control performance in real-time with reduced non-productive-time, maintenance and operational costs. The company offers various collaboration options to partners for integration the technology into large plant control system or as a part of industrial equipment control system.

| | |
|------------------------|-----------------|
| Creation Date | 19 January 2016 |
| Expiration Date | 22 January 2017 |
| Reference | TOLV20160119001 |

Details

Description

Advanced control and optimization solutions play an important role to improve the profitability and stability of various industrial processes control systems. The increasing complexity of technological systems demands reliable real-time process control solutions to reduce non-productive time (NPT), maintenance and operational costs that for some industries are crucial. The set of algorithms are developed for programmable-logic-controllers (PLC) and the use in single-input-single-output (SISO) or multiple-input-multiple-output (MIMO) systems.

The proposed approach has two main goals:

1. To help the process engineer at the start-up of the industrial process by getting rid of the guessing and complex process control parameter calculations. The identification algorithm can automatically obtain the process model and calculate its parameters.
2. Ensuring uninterrupted functional process even under intensive process disturbances. Identification and control design algorithms ensure real-time control process adaptation during the mode changes and intensive process disturbances.

The core of the algorithms is divided into two main functions:

1. Valid process data acquisition under any conditions and process disturbances in real-time, and obtaining accurate process model.
2. Calculation of control parameters.

The two main functions are used together as PLC software to automatically control the industrial process. The first function can be used also separately as an addition to any existing PLC software solution for automatic valid process data acquisition and obtaining correct process model.

In order to obtain the valid process data in real-time and to not interfere with the proper functioning of the process, the tuning of the test signal frequencies is taking place, where after

the signal level is adjusted to match it with the natural level of the process disturbances (can be adjusted to specific process needs). After that the filtration algorithm is applied. The process model is identified taking into account the physical and also system disturbances affecting the process, where after the correct process control parameters are calculated to reach the desired objective (particular level, temperature, speed, pressure etc.).

The company is also interested to participate in international research and innovation projects as project partner to perform joint work on development of large scale process control systems.

Advantages and Innovations

The advantages of the proposed technology are:

1. No personnel assistance needed during the start-up of the industrial process saving up to 10x the time needed to tune it.
2. Ensuring uninterrupted functional process with real time adaptation to process mode changes and intensive disturbances.
3. Saving up to 10% of non-productive-time for any process.
4. Can be adopted to use with any industrial controller/system.

Stage of Development

Available for demonstration

IPR Status

Patents granted

Comment Regarding IPR status

3 patents granted in Russia.

Keywords

Technology

| | |
|----------|--------------------------------------|
| 01001001 | Automation, Robotics Control Systems |
| 02003001 | Process automation |
| 02003006 | Prototypes, trials and pilot schemes |
| 02004 | Plant Design and Maintenance |
| 03002 | Process Plant Engineering |

Market

| | |
|----------|---------------------------------------|
| 02007011 | Manufacturing/industrial software |
| 08002003 | Process control equipment and systems |

NACE

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|----------|---|
| M.72.1.9 | Other research and experimental development on natural sciences and engineering |
|----------|---|

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME \leq 10

Turnover

<1M

Partner Sought

Type and Role of Partner Sought

The type of partner sought: Industrial partners interested to integrate the technology into their large scale control systems like SCADA (supervisory control and data acquisition) or as part of industrial equipment control system or any partners interested to test the algorithms on different process applications either on real process simulation models or on the field processes/equipment.

The tasks to be performed by the partner sought: Jointly perform the installation and tests of our algorithms in their industrial processes / equipment. Provide with necessary process details to improve the work of the algorithms, if necessary. In case of research cooperation in proposals for projects responding to EU calls - joint work (as part of consortium) on development of large scale process control systems.

Type of Partnership Considered

- Manufacturing agreement
- Commercial agreement with technical assistance
- Technical cooperation agreement
- Joint venture agreement
- Research cooperation agreement

Technology Offer

Ultrasonic cleaning technologies for high tech applications

Summary

A Dutch SME is active in the field of ultrasonic cleaning. The company specializes in realizing solutions to complex cleaning tasks within (high-tech) production environments. The company offers research & development, including literature screening, testing, analysis, prototyping, and advise on applications. The company wants to extend its market and establish cooperation with companies that can benefit from new cleaning solutions for their development or manufacturing activities.

Creation Date 17 December 2015
Expiration Date 14 January 2017
Reference TONL20151105001

Details

Description

A Dutch SME offers their R&D services, based on thorough understanding of the principles of ultrasonic industrial cleaning technology. The company specializes in finding practical solutions to complex cleaning tasks within (high-tech) production environments. Their main expertise is on ultrasonic cleaning and its dedicated (customer-specific) implementations, but also other cleaning technologies can be evaluated and tested. Typical questions that are considered are: which cleaning technology is most suitable, how to implement it, how to measure / analyze cleanliness, and how clean the surface should be according to cleanroom/food/medical guidelines.

The company offers result and know-how from their research & development efforts, including literature screening, cleaning technology testing, extensive analysis tools, prototyping, and advise on implementation and suppliers. For more fundamental questions, ongoing collaboration with a national university can provide additional knowledge and facilities.

The company wants to extend its market and establish cooperation with companies that can benefit from new cleaning solutions.

Advantages and Innovations

The company offers their cleaning R&D competences and facilities as subcontractor to partners from branches such as precision manufacturing, medical equipment, semiconductor industry, high-tech industry, food/pharmaceutical machinery building, chemical industry, etc.

For many of these of co-operation partner the core technology of ultrasonic is usually not known as a alternative to their current methods for cleaning.

Further advantages of the use for this company's technology:

- extensive know-how on ultrasound, ultrasonic cleaning, disinfection and sterilization and

- contamination issues
- rapid insight into cleaning processes
 - advanced analysis facilities available
 - new, innovative solutions for (ultrasonic) cleaning

Stage of Development

Field tested/evaluated

Comments Regarding Stage of Development

Depending on the specific cleanings needs of the future partner available similar solutions are available (thus field tested / evaluated) or may be developed to fit the need (or will be under development)..

IPR Status

Secret Know-how

Comment Regarding IPR status

The principles of ultrasonic cleaning are know, but the proper way of application into industrial applications are to be calssified as secret know how.

Keywords

Technology

03001001 Cleaning Technology

Market

03001001 Semiconductors
 05004004 Medical instruments
 08003007 Other industrial equipment and machinery
 08004004 Other pollution and recycling related

NACE

E.38.2.2 Treatment and disposal of hazardous waste
 E.39.0.0 Remediation activities and other waste management services
 N.81.2.9 Other cleaning activities

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Turnover

<1M

Partner Sought

Type and Role of Partner Sought

The company is interested to meet future partners (could also be universities) interested in research cooperation agreements to develop solution for their cleaning issues in production and manufacturing processes.

Services can be supplied to develop tailor made solutions for clients with cleaning problem and partners are sought for technological cooperations.

Type of Partnership Considered

Services agreement

Technical cooperation agreement

Research cooperation agreement

Technology Offer

Selective sucking carpet

Summary

A SME based in Northern France, specialized in pressure equipment engineering, has developed a smart sucker carpet which can be placed at the entrance of a room (especially rooms submitted to specific hygiene requirements), on the way of vehicles and people, in order to prevent the stains deposits on the binding of the tyres or the soles of shoes from introducing inside. Industrial cleaning equipment manufacturers are sought for technology transfer agreement.

Creation Date 17 December 2015
Expiration Date 13 January 2017
Reference TOFR20151217001

Details

Description

A french firm specialized in pressure equipment engineering, has developed a new device dedicated to cleaning based on a selective aspiration process.

The invention consists of a smart sucker carpet which, placed at the entrance of a room on the way of vehicles and people, prevents the stains deposits on the binding of the tyres or the soles of shoes from introducing inside buildings where hygiene is a key point (Agrofood, Pharmaceutical, Electronic, Nuclear industries for example).

The principle used is to conceive a process such as, at every moment, during the advance of the vehicle in the room, only the zone surrounding the contact area between the tyre and the ground is aspired. The process is implemented in a sucker carpet with a "selective aspiration item".

The carpet includes a matrix of special "suction modules" regularly distributed and connected to a source of depression (aspiration centre). The suction surface moves with the passage of the wheel and follows it. For a complete cleaning, the carpet must be of a sufficient length (over wheel circumferential length).

To adapt to the cases of figures met, the carpet can be made up of panels of various formats, which can be assembled on the floor between them and whose openings of connection to the suction power station are designed to be inter-connected.

The main characteristic of the suction module is the integration of a special valve, whose opening and closing are controlled by the load brought by the vehicle (or pedestrian) weight. According to different applications, are defined the diameter of the valves and their "surface density", i.e. the "step" (inter-valves outdistances) in the two directions.

The product aims to be a powerful tool for general cleanliness of rooms or particularly stain exposed buildings or ones which are submitted to specific hygiene requirements.

The French firm which has developed that solution is looking for industrial partners (specialized in manufacture and commercialization of industrial cleaning systems) interested in a technology transfert agreement for the development and the commercialization of that product with its technical assistance.

Advantages and Innovations

The system imagined is “environment friendly” and does not constitute an obstacle on the ground or a restriction to available space. It prohibits any system of watering or wheels brushing. It avoids a general aspiration of the zone of evolution of the wheels during vehicle movements. It leads to a low power and low noiseless motor.

The main advantages of the carpet can be declined as follows:

- Efficiency: the selective aspiration system concentrates the extraction of dust, fine gravels, traces of liquids, dirtiness, etc... locally and exclusively on the targeted zone.
- Global action: for vehicles, action on the whole circumference of tyres, the extraction zone of the carpet moving as the rotation of the wheel.
- Adaptability with the need: dimension, type of panel and power of the sucking device are chosen in relation with application, area geometry and surface to be covered by.
- Security of exploitation: no aboveground part exposed which can cause shock to vehicle or fall of pedestrians.
- Security of floors: the carpet avoids the dispersion of liquids or grease leading to slipping grounds, and which would be deposited fortuitously on the pneumatic tyres (rolling on an oil spot for example...).
- Space saving : all surface close to the room entrance remains available for normal uses; the vehicles entering does not have to pass in a dedicated zone of cleaning which could also cause difficulties for the outgoing vehicles.
- Reduction of cleaning budgets: by reducing the importation of stains on the floors.
- Facility of installation: no intervention on grounds, absence of fixed or mobile part on the ground.
- Discretion: the carpet does not impact the zone where it is installed; it does not modify the modes of circulation at entrance and exit of buildings; it does not force the vehicle to follow a specific course in the zone of cleaning.
- Energy saving: power needed for suction is concentrated only in the zone interested, during the time of passage.

Stage of Development

Concept stage

IPR Status

Secret Know-how

Keywords

Technology

03001001 Cleaning Technology

Market

03001001 Semiconductors
 05007005 Hospital and other institutional management
 08003007 Other industrial equipment and machinery
 08004001 Air filters and air purification and monitoring equipment

NACE

M.71.2.0 Technical testing and analysis

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Partner Sought

Type and Role of Partner Sought

- Type and sector of partner sought : firm specialized in manufacture and commercialization of industrial cleaning systems
- Task to perform : manufacture and commercialization of the sucking carpets, adaptation to specific needs with the technical help of the french firm

Type and Size of Partner Sought

SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Manufacturing agreement
Commercial agreement with technical assistance

Technology Request

Technology for drying of Calcium-Magnesium-Nitrate to anhydrous form

Summary

A Macedonian SME, producer of mineral fertilizers, is looking for efficient technology for drying Calcium-Magnesium-Nitrate solution. The technology should enable obtaining of Calcium-Magnesium-Nitrate in anhydrous form and should be fully developed or at the laboratory stage but ready for implementation. The company is interested in technical cooperation (joint further development), joint venture, as well as other types of cooperation.

Creation Date 22 December 2015
Expiration Date 18 January 2017
Reference TRMK20151222001

Details

Description

A Macedonian company is producing mineral fertilizers in liquid and crystal form and provides a range of solutions for using dolomite mineral as fertilizer in agriculture.

The company is involved in production of various mineral artificial fertilizers, both in liquid and crystal form. Some of fertilizers are produced from the natural source – dolomite. The main advantage of the dolomite the company exploits is in its granulation. Its raw form is natural sand with average size of 180 microns.

The company is looking for efficient technology for drying Calcium-Magnesium-Nitrate solution. It is interested to find foreign partners with technical cooperation (joint further development), joint venture, as well as other types of cooperation.

Technical Specification or Expertise Sought

Technical Specifications / Specific technical requirements:

- Calcium Magnesium Nitrate solution, ratio Ca:Mg= 1.7:1 to 5:1, should be dried to anhydrous form
- Annual production: ~10.000 mt CaMgN Anhydride
- Preferably, natural gas for drying the solution
- Granulation of final product: 1-3 m

Stage of Development

Field tested/evaluated

Keywords

Technology

| | |
|----------|------------------------|
| 02002 | Industrial Manufacture |
| 02002003 | Drying |
| 03003 | Apparatus Engineering |

Market

| | |
|----------|--|
| 08001023 | Other chemicals and materials (not elsewhere classified) |
|----------|--|

NACE

| | |
|----------|---|
| C.28.9.9 | Manufacture of other special-purpose machinery n.e.c. |
|----------|---|

Open for EOI : **Yes**

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Partner Sought

Type and Role of Partner Sought

The company is looking for industry SME, a manufacturer/provider of technical equipment. It is expected from the partner to provide its technology and know-how.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250

Type of Partnership Considered

Technical cooperation agreement
Joint venture agreement

Asuntos Sociales y Económicos

Research & Development Request

H2020-CULT-COOP-09-2017. Universities, institutions, companies and museums sought for an European cultural heritage bid

Summary

A Spanish university, coordinator of this proposal is willing to submit a project within the call H2020-CULT-COOP-09-2017 (European cultural heritage, access and analysis for a richer interpretation of the past). The aim of the project is to research on the virtues/values in the constitution of the European identity. Several universities are involved in the consortium which is now looking for other academia partners, museums, tourism institutions and computer companies.

| | |
|------------------------|-----------------|
| Creation Date | 15 January 2016 |
| Expiration Date | 26 January 2017 |
| Reference | RDES20160115001 |

Details

Description

The project has a twofold approach: there's a part devoted to theoretical investigation and a practical part. Theoretical investigation on the past deals with location, analysis and study of ethical, political, literary and religious texts devoted to virtues, as well as those responsible for the configuration of European identity through history. The aim of the theoretical investigation is its practical applications, that is, the design of real products which allow the citizen to know both virtues and values, as well as to become aware that they have an important influence in their daily lives. The motive of this project is to turn the result from the theoretical research into consumable products.

Consumables to be obtained:

1. A website to disseminate research results and activities.
2. A tourist guide in app format to show tourists the relationship between art and values / virtues
3. Selection of texts and works of art for the production of a DVD in order to highlight the values / virtues that have shaped European identity.
4. Selection of literary texts to develop an education program in the virtues and values.
5. Selection of European works of art dedicated to the virtues and values for editing a book that shows the values / virtues through the arts.
6. Virtual encyclopaedia: virtues and values to make knowledge accessible to anybody.

Academia partners and companies are being sought in order to carry out the computing and communication tasks and works of art on virtues and values.

Call: CULT-COOP-09-2017 (European cultural heritage, access and analysis for a richer interpretation of the past)

Call deadline: 02 February 2017

Eol deadline: 02 January 2017

Keywords

Technology

| | |
|-------|--|
| 11002 | Education and Training |
| 11003 | Information and media, society |
| 11005 | Infrastructures for social sciences and humanities |
| 11006 | Citizens participation |

Market

| | |
|----------|--|
| 02006004 | Data processing, analysis and input services |
| 02006007 | Databases and on-line information services |
| 02006009 | Other computer services |

NACE

| | |
|----------|--|
| J.62.0.9 | Other information technology and computer service activities |
| J.63.1.2 | Web portals |
| P.85.5.2 | Cultural education |
| R.91.0.1 | Library and archives activities |
| R.91.0.2 | Museums activities |

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Partners sought:
- . European universities

- . Departments of Education, Communication, Politics, History, Philology, Religion, Arts
- . Tourism institutions
- . Computer companies
- . Museums
- . Archives

- Tasks to be performed by the partners sought:

- 1) Research: location and analysis of ethical, political, literary texts and works of art on virtues and values.
- 2) Computing tasks.
- 3) Communication tasks

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

PS-H2020 SME Inst Phase 2 - Marketing activation agencies to introduce, represent and distribute its innovative social responsibility digital platform – targeting retailers and local non-profits – in selected European countries are sought

Summary

An Italian company, based in Milan, created a system that allows local retailers to promote their brands while donating to local non-profit organisations each time people shops through an App. The company is looking for marketing activation agencies as partners in H2020 SME Inst. Phase 2 project proposal for first market introduction and distribution in France, Netherlands, Belgium, UK. The ideal partner wants to position itself as a leader in the market of charity marketing and communication.

Creation Date 08 January 2016
Expiration Date 15 January 2017
Reference RDIT20151222003

Details

Description

The SME project coordinator is an Italian company, based in Milan, operating in the digital marketing and promotion industry. The company has created an innovative social responsibility digital platform that allows local non-profit organisations and/or initiatives to benefit from donations originated from citizens' consumption each time they purchase goods or services in one of the registered retailers and small shops. It is an innovative digital marketing service that will satisfy the growing demand of digital innovation by small and larger local retailers and the raise in the propensity of donating money by the European society. By allowing citizens and retailers to start a fundraising process in favour of charity projects of local non-profit organisations / initiatives using a mobile application, the social responsibility digital platform addresses both the problem of uncertainty about the donation purpose and the scattering of the donation amount.

The Italian company has won a SME Instrument H2020 Phase 1 grant and is going to submit a project proposal for the Phase 2 call with cut-off date 14 April 2016.

The Italian company is looking for a partnership with marketing activation agencies to introduce, promote, represent and distribute its innovative social responsibility digital platform in each selected target country. The prospect partners are SMEs eligible to participate in H2020 SME Instrument call specialized in events management, content adaptation, video content production, community engagement, sales support. Main tasks of the partners will be: content localisation; content production – mainly videos – for social media distribution; citizens,

community management of retailers and local non-profits via social care or traditional customer care; shopkeepers and citizens community enlargement. The prospect partner will cooperate with the Italian company local office.

The desired prospect partner (in each selected country) is a young, independent, digital savvy, enthusiastic, energetic marketing activation agency with a strong desire to differentiate through social responsibility engagement. Its activity will concentrate in two main cities of each target country. This will be done in collaboration with local volunteering organisations infrastructures and with the local Italian company office.

The prospect partner should prove to follow a code of ethics, should treat its employees and other stakeholders with fairness and respect, should support volunteering practices and believe in the positive role of business in shaping a better society. Transparency, honesty, kindness, long-term value inclination vs. short-term profits should be part of the company culture.

The Italian company doesn't want to partner with a local branch of a multinational group or with a company exclusively ROI and shareholders value driven.

The prospect partner operates in one of the following countries: France, Netherlands, Belgium, UK.

Deadline for EOI: 18 march 2016

Advantages and Innovations

Main advantages in the partnership: by representing, promoting and distributing the innovative social responsibility digital platform the partner will differentiate in the market of advertising agencies and benefit from the raising market of promotion services to the non-profit sector.

This will be possible because the innovative social responsibility digital platform is an inovative solution that sets new standards in local marketing activation, engaging a large community of local retailers and citizens by bringing fun, transparency and concreteness in the process of fundraising for local non profit organisations and initiatives.

Stage of Development

Prototype available for demonstration

Comments Regarding Stage of Development

The innovative social responsibility digital platform is currently under test in a city in Northern Italy with the municipality support.

IPR Status

Trade Marks, Copyright

Keywords

Technology

| | |
|-------|--------------------------------|
| 11003 | Information and media, society |
| 11006 | Citizens participation |
| 11008 | Creative services |
| 11009 | Creative products |

Market

| | |
|----------|--|
| 02006004 | Data processing, analysis and input services |
| 02006006 | Computerised billing and accounting services |

| | |
|----------|--|
| 02006007 | Databases and on-line information services |
| 02007005 | Communications/networking |
| 02007007 | Applications software |

NACE

| | |
|----------|--|
| J.63.1.1 | Data processing, hosting and related activities |
| M.74.9.0 | Other professional, scientific and technical activities n.e.c. |

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Partners sought in each selected country (France, Belgium, Netherlands, UK): Marketing activation agency to introduce, promote, represent and distribute the innovative social responsibility digital platform in the target country. The partner is specialized in events management, content adaptation, video content production, community engagement, sales support.

Its main tasks will be: content localisation; content production – mainly videos – for social media distribution; social media marketing; retailers acquisition; community management of citizens, retailers and local non-profits via social care or traditional customer care; shopkeepers and citizens community enlargement providing milestones.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

H2020-FTI: Industrial partners sought for the development of a minigym complex

Summary

An Israeli SME active in the field of robotics and sports planning to develop a minigym complex and wheelchair trainer. The SME is looking for partners to complete a proposal under the H2020 Fast Track to Innovation scheme for the deadline of March, 15th, 2016. Partners sought are only industries end users from sports, robotics and manufacturers with upscaling abilities of ergo-metric systems.

Creation Date 07 January 2016
Expiration Date 21 January 2017
Reference RDIL20160106001

Details

Description

Israeli SME planning a proposal for H2020 - FTI pilot 2016 to develop a minigym complex and wheelchair trainer. The SME is active for 4 years in the field of robotics and sports.

Overview of the technology:

Adaptive treadmill, force machine, stationary bike, rowing trainer and wheelchair trainer prototypes have been set up and the following stage would be the pilot stage. Main innovation of the technology is related to movement regulation and external conditions simulations. The platform requires diagnostic tools to examine the man-machine interaction. Fitness and diagnostic intelligence improvement and additional tasks are required to ready the tools for market. The pilot stage, for this kind of products, is the most effective development method.

The aim of the current project proposal to be submitted to the H2020 program - Fast Track to Innovation pilot - is to develop an innovative training system adjusted to handicapped and elderly populations as well as professional sport associations for sport professionals, using state of the art technologies.

1° Manufacturer in one of the following industries:

- Robotics
- 3D printing
- Sport products

2° End-user in one of the following industry:

- Sport utilities and organizations
- Fitness and Medical institutes
- Also non-profit organizations in the Sports/fitness field are welcomed. i.e: any other sport

associations.

Deadline for the call : 15 March 2016

Deadline for EOIs : 10 March 2016

FTI framework conditions : maximum 5 partners from 3 to 5 countries with at least 3 industrial partners gathering 60% of the founding

Budget expected : around 3 M€

Advantages and Innovations

Main innovativeness of all products addressed to proprietary control technology. Controlled electrical motors are using in each one of the devices for power supply.

Actuator (motor and transmission) controller is intelligent module, adapted to different motors and transmitters. The module provides a “work point” (human activity) power in paces of msec and any desired controlled movement for any physical and physiological behavior of human body and external conditions. The module contain open “performance manager” for human movement regulation and external conditions simulation.

Each one of the devices have different transmission construction, that provide movement regime compatibility between motor axle and “work point” of human body.

- Running track or pedals :According to real time body movement power in “work points”, the device adapt itself and improve the body activity in according with requirements. Recognition of person active power and following regulation ability are the main advantages. Competitive products, in general, are simple track simulators. “Work point” information and “performance manager” provide much more, active/passive, performance abilities that all noun existing competitive products, especial in anaerobic and dynamic situations. Competitive products based on “fly-wheel”+control elements.
- Single actuator solution. “Work point” information and “performance manager” provide “basic element” for rowing intelligence. Competitive products based on “propeller” + control elements - passive load with very limited abilities..
- Two actuators solution. Contain performance abilities of all noun existing force machines, and much more. Competitive products: different weight machines, eliptics, steps, pneumatic are very limited and not effective.
- Two actuators solution. “Dynamo-meter” for wheelchair&user. Road simulation, aerobic and anaerobic training ergo-metric and more - all GYM abilities in one device.

Stage of Development

Prototype available for demonstration

IPR Status

Patents granted

Keywords

Technology

| | |
|----------|---|
| 01003016 | Simulation |
| 01003023 | Environmental and Biometrics Sensors, Actuators |
| 01004001 | Applications for Health |
| 11007 | Sports and Leisure |

Market

| | |
|----------|---|
| 05001007 | Other diagnostic |
| 05007003 | Handicap aids |
| 05007007 | Other medical/health related (not elsewhere classified) |

NACE

| | |
|----------|--|
| C.32.3.0 | Manufacture of sports goods |
| C.32.5 | Manufacture of medical and dental instruments and supplies |

Network Contact

.....

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

.....

Partner Sought

.....

Type and Role of Partner Sought

1° Manufacturer in one of the following industries:

- Robotics
- 3D printing
- Sport products

Role : to improve the equipment development, upscale it as an industrially produced inspection equipment which can be sold to end-users

2° End-user in one of the following industry:

- Sport utilities and organizations
- Fitness and Medical institutes
- Also non-profit organizations in the Sports/fitness field are welcomed.

Role : to use and test the newly developed solutions and validate its upscaling at the industrial scale. As well as the standardization of ergo-metric and users activity coordination.

Type and Size of Partner Sought

>500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Research cooperation agreement

Technology Offer

Development of technology for the formation of lead-free final coating of printed circuit boards for instrument making means.

Summary

A Russian university has developed a technology for forming a lead-free topcoat of printed circuit boards for instrument-making means to provide solderability and corrosion protection. The technology reduces the environmental hazard, ensure compliance with the requirements of European Union directives on environmental safety. The authors are looking for partners for industrial testing and implementation in the framework of technical cooperation agreement.

Creation Date 10 December 2015
Expiration Date 27 January 2017
Reference TORU20151210001

Details

Description

Traditionally, as a final coating of printed circuit boards are used lead-tin alloy, applied by solution dip or electroplated methods. A disadvantage of this coating is the presence of the highly toxic lead in the coating composition as well as in a melt for coating. The Russian university, department of "chemistry" offers a technology developed by the formation of lead-free topcoat for printed circuit boards to use in production of instrument-making industry. The proposed technology - formation of lead-free coatings instead of coating tin-lead alloy has the properties of providing the requirements of GOST 23752-79 "printed boards, general specifications". Replacing coating allows to remove lead from the coating material, as well as from technological operations of application of these coatings. The developed coating has a high adhesive strength to the surface, low electrical resistance, good solderability. These properties of the coating are preserved articles during operation, i.e. have high corrosion resistance. Qualitative characteristics of the print on the proposed technology does not deteriorate in comparison with the seal coated with tin-lead, only reduce environmental risks, as well as improves the corrosion resistance of materials and equipment. Using similar coatings, which include lead, causing great environmental damage and harm to the health of enterprises employees working on the machines. This development reduces the environmental risks and ensures safety of employees.

Within the framework of technical cooperation the university from Russia expects to conduct industrial trials with potential industry or SME partners active in electronics or instrument manufacturing, for the refinement of the proposed technology, as well as its subsequent implementation under the technical cooperation agreement. Expected result is to trial the product and development to the specific needs.

Advantages and Innovations

Advantages of the offered technology are as follows:

- Coating composition does not include lead components.
- The technology differs from the currently used at environmental risk, since it does not use toxic and hard recyclable additives.
- High strength adhesion of the coating with the surface.
- Low contact resistance, good solderability.
- Increased corrosion resistance of printed circuit boards during operation.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how, Patent(s) applied for but not yet granted

Keywords

Technology

11002 Education and Training

Market

07005004 Education and educational products and materials

NACE

P.85.4 Higher education

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: industrial enterprises, SME.

Sphere of activity: manufacturing of instrument making means, electronics.

Role: interest in industrial testing, development of the technology, in a future - to implement the technology.

Type and Size of Partner Sought

SME 11-50, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

Set of tools, apps and activities for oral language learning

Summary

A Catalan University has developed an innovative teaching solution with online tools and materials designed specifically so that students can practise and improve speaking skills in language learning which it is being successfully used by over 8000 students per semester. A commercial agreement with technical assistance and a technical cooperation agreement are sought.

Creation Date 12 January 2016
Expiration Date 27 January 2017
Reference TOES20160112003

Details

Description

A Catalan university has developed an innovative set of tools to help students improve speaking skills and language learning.

This set of tools, which is used by over 8000 students a semester, is comprised by a blog, an activity manager, a videoconference system and a tool for creating and editing. The blog allows text, video and audio to be recorded easily on a single interface.

The activity manager developed for oral working on distance tasks by pairs of students. It distributes materials in real time, creating a communicative context to foster interaction between students.

The videoconferencing system is a videochat for groups up to six participants for improving oral interaction skills, which allows students to record the conversation, aiding the lecturer's task of listening to and assessing the individual interventions of each participant.

And finally, it counts with the tool for creating and editing online language learning activities and materials that includes a materials repository with a Creative Commons license.

All this set of tools is complemented by a community, aimed at language teachers, learning technology developers and all kinds of language learning institutions that promotes the contribution and exchange of language learning contents, services and methodologies.

This platform allows oral language proactive activities that were traditionally done on-site to be practiced online. Students and teachers can interact flexibly, easily and intuitively, simplifying interfaces and unifying formats. This improves the educational experience, focusing efforts on learning and preventing dispersion in the use of technology:

- > Students increase their feeling of belonging to a group, they feel greater motivation and the quality of speaking skills learning rises.
- > Teachers have more powerful tools and resources for promoting and assessing students' oral language practice.

A commercial agreement with technical assistance and a technical cooperation agreement are sought with institutions in the education industry.

Advantages and Innovations

Nowadays, educational institutions are increasing their efforts to improve online learning. However, institutions are still running with issues regarding collaboration amongst students and teaching topics such as new languages (Which require an active role by the teacher and other students).

This solution is providing the set of tools needed to improve the collaboration amongst students and facilitate the teacher's job in an online setting. Some advantages are:

- > A blog where you can record text, video and audio
- > Real-time distribution of material
- > Conference system designed to suit the educational industry needs
- > Its own repository of materials for language learning
- > Integration of the service on any education platform.
- > SaaS (access to tools in the cloud in the event of not having an education platform).
- > Technical support for problems with installation, for maintenance, etc.
- > Teaching support for adapting activities to online teaching.
- > Training in the set of tools, e-teaching, etc.

Stage of Development

Already on the market

IPR Status

Trade Marks

Profile Origin

Other

Keywords

Technology

| | |
|----------|------------------------|
| 01003006 | Computer Software |
| 01005002 | E-Learning |
| 11002 | Education and Training |

Market

| | |
|----------|--|
| 07005004 | Education and educational products and materials |
|----------|--|

NACE

| | |
|----------|-----------------------------|
| P.85.2.0 | Primary education |
| P.85.3.1 | General secondary education |

P.85.4.1 Post-secondary non-tertiary education
P.85.4.2 Tertiary education

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

A technical cooperation agreement and a commercial agreement with technical assistance are sought with institutions in the education sector that focus on language schools, universities and distance centres that teach languages and with technology providers of these institutions.

In particular, seeking partnership for:

- Technical cooperation to develop new ICT applications in the field of second language training.
- Technical cooperation and/or a commercial agreement with technical assistance to develop complementary technologies to improve the already implemented apps.
- Commercial agreement with technical assistance to improve the market penetration

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Technology Offer

Innovative patented technology for inorganic waste volume reduction

Summary

An Italian SME specialised in innovative solutions for waste valorisation has patented a new system to reduce the volume of inorganic waste which could be applied to industry, commercial activities and private users. This is a low cost production technology which allows to reduce waste volumes over 95%. Partners for license agreements or technical cooperation are sought.

Creation Date 15 January 2016
Expiration Date 22 January 2017
Reference TOIT20160112001

Details

Description

An Italian SME specialised in innovative solutions for waste valorisation has developed and patented a new system to reduce the volume of inorganic waste. The system can be applied to industry, commercial activities and private users and therefore the Italian company is looking for partners interested in adapting the technology to their needs or might be interested in further development through technical cooperation. The company is also interested in license agreements for their patented technology.

The technology patented by the company allows to cut plastic bottles, aluminium cans and glass bottles in pieces of 1 centimeter of diameter and consequently the volume waste can be reduced by over 95%. The system might be adapted to other machines treating waste or it might be used as a separate machine. The system can be used at home as an household appliance, near drink vending machines for minimizing this kind of waste, in the horeca field as a support for kitchens in restaurants or hotels or for ships and caravans because of their low space availability for waste.

The system is the result of years of study and research and it has been actually patented at international level and industrialized, so it is ready for the market.

The system represents an alternative to other expensive systems known today as the compaction one.

Comparing the cost of compactors with the cost of the presented system, the latter is 30% lower. This technology also allows to insert in the same machine different materials, for example glass, plastic, aluminium or paper to obtain waste volume reduction and dramatically decrease the frequency of delivery of waste for collection. Consequently, there are several benefits resulting from the technology use, starting from the needed space reduction for waste storage up to the environmental benefits resulting in a smaller amount of travels that collection means must perform. Furthermore, all recovered waste will be already pre-processed and will suffer less processing to become a new product, so there will be an evident overall lower production of pollutant emissions.

Advantages and Innovations

Normally, industrial cutting technologies are expensive and it is necessary to use very large engines to process waste. Other used technologies are compaction systems which allow anyway limited volume reduction.

The cutting technology proposed by this company combines the possibility of using small engines with a more effective waste reduction (the initial volume can be reduced by more than 95%).

For example, in a bag waste of 120 liters size, by using a compaction system, it is possible to contain about 290 0.5 liters plastic bottles, whereas this technology allows a 120 litres size bag waste to contain about 600 plastic bottles.

Another important feature of this technology is related to the one centimeter pieces resulting from this cutting system. These pieces are raw materials ready to be reused for new products. Without performing further processing it is thus possible to create a short, economic and environmentally sustainable recycling process.

Stage of Development

Already on the market

IPR Status

Patent(s) applied for but not yet granted, Copyright

Comment Regarding IPR status

International patent application

Profile Origin

Private (in-house) research

Keywords

Technology

| | |
|----------|---|
| 03010 | Household Goods & Appliances |
| 10002013 | Clean Production / Green Technologies |
| 10003004 | Recycling, Recovery |
| 11001 | Socio-economic models, economic aspects |
| 11008 | Creative services |

Market

| | |
|----------|---------------------------------------|
| 07002005 | Other retailing |
| 07004008 | Other consumer products |
| 07005001 | Fast food restaurants |
| 07005003 | Hotels and resorts |
| 08004004 | Other pollution and recycling related |

NACE

| | |
|----------|---|
| C.24.1.0 | Manufacture of basic iron and steel and of ferro-alloys |
| C.28.9.9 | Manufacture of other special-purpose machinery n.e.c. |
| E.38.1.1 | Collection of non-hazardous waste |

E.38.3.2 Recovery of sorted materials
E.39.0.0 Remediation activities and other waste management services

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:
Companies

- Specific area of activity of the partner:
Manufacturers and any companies active in home appliances, horeca, vending machines, naval, caravan, recycling, waste valorization

- Task to be performed by the partner sought:
Companies operating in the above mentioned sectors might be interested in adapting the technology to their needs or might be interested in further development through technical cooperation. The company is also interested in license agreements for their patented technology.

Type of Partnership Considered

License agreement
Technical cooperation agreement

Technology Offer

Novel protective headgear reacts to blunt trauma by triggering an interior cooling system, to reduce brain injury

Summary

A UK company has developed a patented device modelled inside protective headgear (helmets) that automatically reacts to major blunt trauma by triggering a strongly endothermic (cooling) response. The device reduces brain swelling in the event of an accident and has a wide range of applications. They are seeking motorcycle, sports (equine, snow), military, paramedic/hospital or healthcare companies to co-develop the innovation to new applications via joint ventures and manufacturing agreements.

| | |
|------------------------|-----------------|
| Creation Date | 12 January 2016 |
| Expiration Date | 18 January 2017 |
| Reference | TOUK20160112001 |

Details

Description

Head injuries occur in 80% of all motorcycle accident fatalities. A key contributor is brain swelling inside the helmet and the response time to address the issue. A standard motorcycle helmet has polystyrene, which acts as an energy absorber but also as an insulator. When an accident takes place and the brain swells, the heat is kept trapped inside the helmet, causing further swelling and increasing the chance of brain injury.

The UK company's innovation directly addresses this problem by cooling the rider's head post-accident. The active technology works by triggering an endothermic chemical reaction inside the helmet lining at the moment of impact. The helmet immediately cools the motorcyclist's head, keeping it cold even before the emergency services could have been called.

The technology has been fitted to high quality existing motorcycle helmets that have passed stringent safety tests and has been patented in 18 countries globally.

While currently designed and fitted to motorcycle helmets, the company are seeking company partners in other sectors which might benefit from this technology and be interested in adapting this to their respective headgear. These sectors include, but are not limited to, the military, disability support/medical devices, paramedic/hospital, skiing, equine, car racing and other sportswear providers.

They are hoping to take the device to new markets via co-development in joint venture and manufacturing agreements.

Advantages and Innovations

- The technology represents the first fundamental change in headgear protection in the last 50 years, with all previous designs using passive technology serving only to protect the head through the use of appropriate materials, which repel or cushion impacts.
- The CFK-1 has a carbon fibre and Kevlar shell positioning it in the premium helmet category. The CFK-1 has been tested and shown to be one of the strongest helmets available as well as having a recent design based on a Shoei leading premium helmet to fit the need for a recognised helmet.
- The design of a new helmet has also allowed the innovation of adding a visor locking system, which has long been seen as a weakness of most currently available helmets.
- The helmet can include an emergency beacon transmitter and an ionising cleaning station that cleans, dehumidifies and deodorises the helmet.

Stage of Development

Already on the market

IPR Status

Patent(s) applied for but not yet granted, Patents granted

Comment Regarding IPR status

The device is patented in the UK, Singapore, Switzerland, Netherlands, France, Sweden, Germany, Italy, Brazil, Australia, Portugal, Belgium, Spain, Luxembourg, South Africa, Hong Kong, China, Canada with patents pending in the USA and Japan.

Profile Origin

Other

Keywords

Technology

| | |
|----------|---------------------|
| 02007005 | Composite materials |
| 02007014 | Plastics, Polymers |
| 02007024 | Nanomaterials |
| 11007 | Sports and Leisure |

Market

| | |
|----------|---|
| 07001004 | Sporting goods, hobby equipment and athletics clothes |
| 08001004 | Fibre-reinforced (plastic) composites |
| 08001008 | Membranes and membrane-based products |
| 08001009 | Speciality/performance materials: producers and fabricators |
| 09004008 | Other manufacturing (not elsewhere classified) |

NACE

| | |
|----------|-------------------------------|
| C.32.3.0 | Manufacture of sports goods |
| Q.86.9.0 | Other human health activities |

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Industry, hospital or military
- Specific area of activity of the partner: Manufacturer or developer of innovative safety equipment or sports gear (sectors including paramedic and hospital, domestic first aid, military projects, equine and snow sports).
- Task to be performed by the partner sought: Co-development of the innovation to a new application, via joint venture or manufacturing agreement

Type of Partnership Considered

Manufacturing agreement
Joint venture agreement

Technology Offer

Interactive soft device pillow-shaped for supporting the therapy of children with autistic disorders

Summary

An Italian research Institute has developed an interactive soft device that, through an electronic system, is able to facilitate interaction and support the development of social and communication skills of children with autistic disorders by leveraging highly motivating sensorial feedbacks. The Institute is looking for partners to reach research cooperation, technical or commercial agreements with technical assistance in the fields of medical, healthcare services or sensors applications.

Creation Date 18 January 2016
Expiration Date 01 February 2017
Reference TOIT20160118001

Details

Description

An Italian research Institute has developed an interactive and wearable soft device pillow-shaped for supporting the therapy of children with autistic disorders. It works through an internal electronic system, which detects human touch and in response emits sensorial inputs.

The pillow, in fact, has simultaneously characteristics of robotic-mechanical objects (emission of light and sound in response to certain incitements), and typicalness of “transitional objects”, e.g. a teddy bear (morbidly, shape), which can be easily accepted and refined by the child. This combination may have a positive influence on the rehabilitation therapy, accelerating the establishment and the development of communication and social interaction between the child and the therapist: the pillow, in fact can be remotely controlled by the therapist through a bluetooth-connected tablet. In this way it is possible to adjust the type of feedbacks that the pillow returns, or modify the 'child's action- pillow outcome' contingencies. The sensorial feedback (i.e., sound, music, light) can thus be either directly caused by the child's action, or it can be controlled remotely by an adult so to encourage social engagement through the development of a triadic relationship.

The soft pillow is animal-shaped so that to appear friendly; it presents four different symmetrical parts with separated LEDs and touch-sensitive sensors able to change colors or sounds, depending on the particular tasks that therapists and children perform during the therapy.

The group of researchers has laboratory tested the device developing different prototypes. The final version has three main functionalities: (1) periodically providing sensory feedbacks through four different LEDs and speakers; (2) acquiring data from the children's touch on defined areas of the pillow through touch sensors; and (3) adjusting/changing the feedbacks depending on the tasks given from the therapists.

The specialist literature in the field of autism rehabilitation therapy demonstrates that the use of playful robots and software is currently an innovative and promising approach.

The purely mechanical behavior of these objects seems to arouse a particular interest in

children with the cognitive diseases. Numerous studies attest the scientific validity of this methodology: in most cases, they are used classic robots (with humanoid form or otherwise), or programs that implement games on computer or tablet.

The Institute is looking for partners in the field of medical and healthcare services to reach technical or commercial agreements with technical assistance. Other scientific partners or Universities are sought for possible updating or development of the functionalities of both the sensors and the materials of the device, through research cooperation agreements.

Advantages and Innovations

Comparing with other similar existing technologies, the device is easy to be manufactured. The electronics requirements are minimal, therefore the manufacturing cost and the final cost are relatively cheap. The form of the device (a soft pillow) is intrinsically safe and user-friendly for a child. It is battery powered, and therefore independent of the environment. The weight and size make it easy to handle and to carry.

The final prototype has been discussed and defined with therapists and neuropsychologists, in order to insert it within the traditional therapeutic treatments and to analyze the recorded data related to emotional reactions of children with autistic disorders.

The device is potentially useful for the therapeutic treatment of different disorders: autistic spectrum disorders (ASD), generalised developmental disorders, communicative disorders, mental retardations and relational disorders.

The specialist literature in the field of autism rehabilitation therapy demonstrates that the use of playful robots and software is currently an innovative and promising approach.

Stage of Development

Prototype available for demonstration

IPR Status

Trade Marks

Keywords

Technology

| | |
|----------|--|
| 01001001 | Automation, Robotics Control Systems |
| 01002007 | Nanotechnologies related to electronics & microelectronics |
| 06001008 | Environmental Medicine, Social Medicine, Sports Medicine |
| 06001014 | Neurology, Brain Research |
| 11009 | Creative products |

Market

| | |
|----------|---|
| 03007003 | Other analytical and scientific instrumentation |
| 05003001 | Therapeutic services |

NACE

| | |
|----------|---|
| C.26.1.1 | Manufacture of electronic components |
| M.72.2.0 | Research and experimental development on social sciences and humanities |
| Q.86.9.0 | Other human health activities |

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner sought should be active in the field of medical, healthcare and psychiatric services and should be able to insert the device into their clinical procedures and traditional therapeutic treatments. The purpose is to reach technical or commercial agreements with technical assistance.

The institute is also interested in finding other scientific partners or Universities to start a research cooperation for improving the functionalities of the technology and sensors application, also in reference to the treatment of other different psychiatric disorders.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement
Research cooperation agreement

Technology Offer

Crowdsourcing, decision supporting and feedback software

Summary

A UK-based SME has developed an innovative software solution designed to facilitate communication and prioritization of customers' feedback and ideas. The software can be used in any sector where rapid interaction between stakeholders is essential. A joint venture is sought with commercial organisations having distribution/marketing capability. A research cooperation agreement is also offered to partners interested in accessing EU funding to enable further software development.

| | |
|------------------------|-----------------|
| Creation Date | 16 July 2015 |
| Expiration Date | 14 January 2017 |
| Reference | TOUK20150716001 |

Details

Description

A UK-based SME has developed a new crowdsourcing and decision supporting platform and to support this platform has designed an innovative software solution. The solution developed is capable of facilitating the process of customer feedback, enhancing communication between stakeholders and participants, prioritizing ideas, supporting open innovation, etc.

The community decision-making and crowdsourcing process enables good ideas to be turned into actions quickly and effortlessly. The technology can be adapted for use in any organization/sector wishing to improve innovation potential using a communication system between stakeholders and all other participants/clients. Uniquely, the technology is capable of ranking and prioritizing feedback, and using it for improved decision making.

At a macro-level, the technology promotes active citizenship and entrepreneurship. Additionally, the technology supports positive social trends leading to empowerment and beneficial changes. This exciting software solution can also be used to encourage voting participation, active engagement and learning, etc.

The technology has currently been used in the education sector, where it has delivered cost savings, provided meaningful feedback on service quality whilst suggesting new products or services facilitating competitive advantage

The offered software solution can improve an organization's key metrics related to communication and feedback processes, both internally and externally; it can be used in business and market-research environment to facilitate the scaling of the best ideas and practices across the network. The technology has multi-sector benefits and is applicable to organizations wishing to grow and improve communication with stakeholders.

A joint venture is offered to partners willing to support the adaptation of the technology for other markets. Ideally, the desired partner will have sales and distribution capability to support the company's commercialization ambitions. Additionally, a research cooperation agreement is being offered to partners wishing to collaborate with national or EU-funded projects to further develop the technology.

Advantages and Innovations

- Drives efficiency, innovation and quality;
- Ability to share topics, questions and ideas with interested parties;
- Unique method for crowdsourcing ideas and projects;
- Functionality of participatory budgeting, impact reporting, PR blogging, etc.;
- Cost reduction and new product growth facilitated.

Stage of Development

Already on the market

IPR Status

Trade Marks, Copyright

Comment Regarding IPR status

Coding copyright and trademark protection

Profile Origin

Other

Keywords

Technology

| | |
|----------|--|
| 01004005 | e-Government |
| 11003 | Information and media, society |
| 11004 | Technology, Society and Employment |
| 11005 | Infrastructures for social sciences and humanities |
| 11006 | Citizens participation |

Market

| | |
|----------|--|
| 01001004 | Other commercial communications |
| 01004003 | Communications processors/network management |
| 01004008 | Other data communications |
| 02006009 | Other computer services |
| 07005006 | Other consumer services (including photo processing) |

NACE

| | |
|----------|---|
| J.63.9.9 | Other information service activities n.e.c. |
| O.84.1.1 | General public administration activities |
| S.94.1.1 | Activities of business and employers membership organisations |
| S.94.9.9 | Activities of other membership organisations n.e.c. |

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

A joint venture is offered to partners willing to support the adaptation of the technology for other markets. Ideally, the desired partner will have sales and distribution capability to support the company's commercialization ambitions.

Offers related to further development under research cooperation agreement (e.g. a joint research application for national- or EU-funded project) are also of interest.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Joint venture agreement
Research cooperation agreement