Technology Request

French company is looking for ignition system of powder, without sparkles

Summary

A French company, active in hygiene product, is looking for a system to light a powder having combustion properties by whatever means. The system must be without any sparking effect (a wick non-sparking, an electric ignition system, an exothermic chemical reaction…). The powder is packed in a tin can. The final product is used close to combustible elements, so the lighting must avoid any sparking effects. The French company is open to technical cooperation or commercial agreements.

Expiration Date	09 June 2017
Reference	TRFR20160425001
Profile link	

Details

Description

The French company is specialised in hygiene products formulations for desinfection, detergency, water hygiene or pest control.
Today, they have developed a new formula of powder for hygiene disinfection.
This powder is packed in a tin can.
To launch the disinfection, the powder should waste away without any burning or flame.
Today, wicks are used to light the system but these wicks have sparking effect.
The French company wants to avoid any sparking effect as the final product is used close to combustible elements.

And so the French company is looking for an ignition system of the powder by whatever means.
It could be:
- A wick, without sparking effect
- An electric ignition system,
- An exothermic chemical reaction,
- Other.

The system should be simple in order to maintain products' production at reasonable costs.
The French company needs 10,000 ignition systems per year.

The French company is open to several types of cooperation regarding the proposed solution as research cooperation, technical cooperation agreement or commercial agreement with technical assistance if the solution is already on the market.

Technical Specification or Expertise Sought

Once launched, the lighting should be instantaneous (3 to 4 seconds maximum).
The proposed ignition system could be manual or automatic, with a delay system (but it's not obligatory).

If proposed system is wicks, they should have a length of 15 cm for small smokes up to 30 cm for big smokes.
The ignition system must avoid any CMR (carcinogenic, mutagenic, or toxic) substances.

Keywords

Technology

02009019	Ignition system
03001001	Cleaning Technology
07001002	Animal Production / Husbandry
07001009	Veterinary Medicine
10002001	Indoor Air Pollution/Treatment

Market

05009003	Animal health
08004001	Air filters and air purification and monitoring equipment
08004004	Other pollution and recycling related
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

NACE

A.01.6.2	Support activities for animal production
C.20.2.0	Manufacture of pesticides and other agrochemical products
C.20.4.1	Manufacture of soap and detergents, cleaning and polishing preparations

Open for EOI : Yes

Dissemination

Send to Sector Group

Bio Chem Tech

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Client Country

France

Partner Sought

Type and Role of Partner Sought

The French company is looking for a partner who should develop or have developed an ignition system for a commercial agreement with technical assistance or technical cooperation if the system should be adapted.
The partner could be a wick maker or other, SME or industry.

University, R&D institutions could also become partners if the ignition system should be developed or improved for a research cooperation.

Type and Size of Partner Sought

SME 11-50,University,Inventor,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 Request

Ultra fast water heater

Summary

The UK branch of a product development company is looking for novel water heating technology that will be incorporated in consumer beverage machines. Fast heating and cooling down is the key. The solution should be not too far from the market, as large volumes will be needed within a year. The type of collaboration with industrial parties from heating elements field will depend on the stage of development. It may include commercial agreement with technical assistance, licensing, manufacturing.

Expiration Date 28 October 2017
Reference TRUK20161024001
Profile link

Details

Description

The UK branch of a product development company is looking for novel water heating technology that will be incorporated in consumer beverage machines. It will replace an existing low-cost boiler component. The heating and cooling down time needs to be shorter than with readily available solutions.

Companies are sought who can supply this product “off the shelf”, or have a solution in development that has the capability to be manufactured at production scale in the near future. The manufacturing price is expected to be <5 EUR.
The exact nature of the heating technology is less important and all solutions will be considered.

The type of collaboration will depend on the stage of development and may include commercial agreement with technical assistance, licensing, manufacturing. The 'technical assistance' is not limited in any way, it will totally depend on the nature of the method or material or system.

Technical Specification or Expertise Sought

• Low thermal mass and thermal time constant of <2 seconds, enabling fast response and subsequent heat up/cool down of the water;
• Integrated temperature sensing on in- and output;
• Food grade materials required (where in contact with water);
• Flow rate: typical 5 ml/s (@ pressure drop < 0.1 bar);
• Heater power: cumulatively 1800W (e.g. multiple tracks delivering 75% and 25% of power);
• Max operating pressure – 2 potential options
o 20 Bar, burst pressure: 40 Bar
o 10 Bar, burst pressure: 20 Bar;
• Solutions should also provide the following further detail:
o Certification
o Compliance
o Connections

o Overheat protection
o Thermal shock resistance
o Temperature resistance

Keywords

Technology

04002006	Heat exchangers
09001010	Thermal material testing

Market

06008	Energy Storage
07004004	Housewares

NACE

M.74.1.0	Specialised design activities

Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

0

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: industry.
- Specific area of activity of the partner: technologies relating to heating elements.
- Task to be performed by the partner sought: to supply the elements or participate in organising the manufacturing of such. The type of collaboration will depend on the stage of development and may include licensing, commercial agreement with technical assistance, manufacturing.

The 'technical assistance' is not limited in any way, it will totally depend on the nature of the method or material or system.

Type of Partnership Considered

License agreement
Manufacturing agreement
Commercial agreement with technical assistance