

Partnering Opportunity

Profile Status: Published

Technology Offer

A Japanese university is offering a new technology for polymer synthesis aiming at joint development of new applications

Summary

The Japanese university is aiming to achieve joint research, technical cooperation or patent licensing agreements with EU companies so to find new applications for a polymer synthesis technology they have developed. The technology is currently applied in manufacturing of colour materials and they would like to develop it for chemical and resin material manufacturing fields. The main feature is its reduced costs, 1/100, compared to existing technology.

Creation Date08 June 2018Last Update06 June 2019Expiration Date09 June 2020

Reference TOJP20180608001

Public Link https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/1052a0c8-0b9f-

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Details

Description

The company developed a new monomer molecule as a material of chemosynthesis which applies in polymerisation with acrylic ester. The synthetic polymer with this monomer molecule enables to control 3D dimensions structure in a stable condition.

Their polymer synthesis technique the university developed is currently applied in manufacturing of colour materials, and through the partnership, they wish to find further possibilities of new applications in the field of chemical and resin material manufacturing.

They already have collaborated with companies on research and development worldwide. Based on their previous partnership agreements, they wish to collaborate with EU-based companies under the form of joint research cooperation agreement, technical cooperation





agreement or licensing agreements. Financial agreements proposed by funding bodies will be considered where it is appropriate.

Once the partnership works well, they would like to evaluate the technology and discuss commercialisation options together with their potential partner.

Advantages and Innovations

1) Law Coot

Their polymer techniques has following features:

| □ By applying their new technique of polymer synthesis, it reduces cost to approximately one-hundredth (1/100) comparing to the existing technology utilizing common raw material. □ It also allows to reduce cost on synthetic monomer by utilising of organic catalyst, carbon, nitrogen, alcohol, halogenated alkali metal compounds, and so on. |
|---|
| 2) Low environmental impact □By utilising of low-toxicity catalyst it minimises environmental impact. |
| 3) Easy operation □Their polymer can be used without special manufacturing equipment. |
| 4) Accessibility ☐ The polymer can be accessible to a wide-range of polymer design such as Block, Star, Comb, Hyper-branch, and Bruch type, etc. ☐ It also accessible to various monomers. |

Stage of Development

Already on the market

Comments Regarding Stage of Development

Their technology is commercially used for manufacturing colour materials for the time being.

IPR Status

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

Comment Regarding IPR status

7 patents are granted in Europe, US, Japan and China etc. Some new patents are applied but not yet granted.

Profile Origin

Private (in-house) research

Keywords

Technology

02007014

Plastics, Polymers

03004

Chemical Technology and Engineering



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Market

08001 Chemicals and Materials

08001016 Commodity chemicals and polymers

08001018 Polymer (plastics) materials

NACE

M.72.1.9 Other research and experimental development on natural sciences and

engineering

Network Contact

Issuing Partner

EU-Japan Centre for Industrial Cooperation

Contact Person

Masae Ozawa

Open for EOI: Yes

Dissemination

Relevant Sector Groups

Bio Chem Tech

Restrict Dissemination to Specific Countries

Austria, Belgium, Bulgaria, Croatia. Cyprus, Czechia, Denmark, Finland, Estonia, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Luxembourg, Netherlands, Poland, Portugal, Latvia, Malta, Romania, Slovakia, Slovenia, Spain, Sweden, UnitedKingdom,

Client

Type and Size of Organisation Behind the Profile

University



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Year Established

1869

Turnover

>500M

Already Engaged in Trans-National Cooperation

Experience Comments

The University has a joint research agreement for their technology with the US partner for more than 2 years.

Languages Spoken

English

Client Country

Japan

Partner Sought

Type and Role of Partner Sought

They are looking for partner(s) in the field of manufacturing of chemical and / or resin who would be working together with the Japanese university to develop further applications of their technique.

The partner can be an industrial company of any size that is in the field of manufacturing of chemical and /or resin.

The partner is expected to have a basic knowledge on living radical polymerisation.

Type and Size of Partner Sought

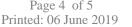
SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

License agreement Financial agreement Technical cooperation agreement Research cooperation agreement

Attachments

Ref: TOJP20180608001



Page 4 of 5



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