

A Japanese firm offers a patented mechanism for peristaltic pumps under a licensing agreement

Summary

Profile type	Company's country	POD reference
Technology offer	Japan	TOJP20241011003
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
Alessandro PERNA	11 Oct 2024 11 Oct 2025	11 Oct 2024

General Information

Short summary

A Japanese firm is seeking companies in the EU who are interested in a patented technology for a peristaltic pump's mechanism. The technology is applicable to a wide range of liquid handling which needs high cleanness and no contamination. Thus, the technology would be ideal for sectors such as medical, biotech, pharmaceutical and scientific equipment. The company aims to reach a licensing agreement with relevant partners.

Full description

A Japanese firm is seeking companies in the EU who are interested in a patented technology. The offered technology is related to the fundamental mechanism of peristaltic pumps. The technology is applicable wide range of liquid handling which needs high cleanness and no contamination.

The patent has been registered in Japan and the United States. In the EU, it has been registered in Germany through the European Patent Convention.

Target partners are manufacturing companies looking for a new technology to implement within their products. Therefore, the end-goal is for the technology to be transferred to manufacturers who will benefit from the patent. The technology is offered under the terms of a licensing or a commercial agency agreement. The Japanese company is ready to provide technical assistance and proactively work together with the potential partner in the EU.

The company has experience in working with global companies. In recent days, they have been supporting a global CRO (contract research organisation) in the study of medical device regulations and helped it to register the device with the Japanese Pharmaceuticals and Medical Device Agency for necessary regulatory approvals in Japan.

Advantages and innovations

The technology offered by the Japanese company is based on the fundamental mechanism of a peristaltic pumps. The feature of peristaltic pumps is to avoid direct contact with the liquid in the pumps.

The company pump technology reduces the potential risk of inaccurate medicine injection occurring because of variations in the liquids' flow rate. This result is achieved by reducing the fatigues on the pumps which decreases the lifespan of conventional products on the market. The pump offered by the Japanese company adopted a patented technology which prevents possible weakness in the mechanism of pumping that maintains its flow rate constantly, also resulting in a longer lifetime for the pump.

The technology has been developed to improve the conventional medical infusion pumps that have potential risk of inaccuracy of medicine injection and less reliability of long-term services in clinical use.

The advantages of using this technology are quite significant. Engineering tests on the mechanism showed higher performances compared to common existing pumps.

The potential applications are: medical infusion pumps, colour mixing pumps and biochemical processing tools that require liquid handling without any contamination.

Technical specification or expertise sought

Stage of development

Lab tested

IPR Status

IPR granted

IPR Notes

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Sustainable Development goals

• **Goal 3: Good Health and Well-being**

Partner Sought

Expected role of the partner

The ideal partner is a manufacturer in the sector of medical, biotech, pharmaceutical and scientific equipment who should be able to create prototyping adopting the technology offered by the Japanese company.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

- **SME 50 - 249**
- **R&D Institution**

Dissemination

Technology keywords

- **06001023 - Medical Furniture**
- **06001013 - Medical Technology / Biomedical Engineering**

Targeted countries

- **World**

Market keywords

- **05004004 - Medical instruments**
- **05007007 - Other medical/health related (not elsewhere classified)**

Sector groups involved

Media

PDF documents



[Abstract of patented technology](#)

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