

Patented hydroponic systems for indoor and traditional farmers that cultivate high-value vegetables and plants in greenhouses and controlled environments

Summary

Profile type	Company's country	POD reference
Technology offer	Italy	TOIT20230419010
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance Investment agreement	• World
Contact Person	Term of validity	Last update
Rita Elste - Tomsone	19 Apr 2023 18 Apr 2024	19 Apr 2023

General Information

Short summary

An Italian start-up patented, designs and develops hydroponic systems for indoor and traditional farmers that cultivate high-value vegetables and plants in greenhouses and controlled environments. SME's goal is to develop technologies to reduce the economic and environmental impact of indoor and controlled environment vegetable production. Company is looking for partners that can help in the product's market introduction phase.

Full description

An Italian start-up located in central Italy patented, designs and develops hydroponic systems for indoor and traditional farmers that cultivate high-value vegetables and plants in greenhouses and controlled environments. SME's goal is to develop technologies to reduce the economic and environmental impact of indoor and controlled environment vegetable production

This system is an innovative patented solution that overcomes the limitations of traditional drip systems.

To meet the demands of customers, SME provides the hydroponic system, software and hardware technology for plant growth and nutrition control.

Company is looking for companies that can help in the product's market introduction phase.

Advantages and innovations

This system is an innovative patented solution that overcomes the limitations of traditional drip systems. Thanks to its advanced technology, it offers numerous advantages, including:

- Fertilizer recovery: The system allows for the easy recovery of fertilizer that recirculates on plant roots, significantly reducing resource waste and fertilizer costs.
- Substrate reduction: The system uses only 6 liters of substrate per meter of system, significantly reducing cost and environmental impact.
- Reduced disposal: Since the system does not use plastic containers, the amount of plastic to dispose of is minimal, and the percentage of substrate to dispose of is lower than other systems.
- Suitable for vertical systems: The system is also suitable for use in vertical systems, allowing for more efficient use of space.
- Harvest uniformity: The solution flows directly onto the roots, eliminating all possible obstructions of the drip system.

Technical specification or expertise sought

Stage of development

Available for demonstration

IPR Status

IPR granted

Sustainable Development goals

- **Goal 6: Clean Water and Sanitation**

Partner Sought

Expected role of the partner

The system is the ideal solution for farmers who want to cultivate more efficiently and sustainably, reducing environmental impact and improving the profitability of their activity. It has been tested in laboratory with excellent results and is currently being tested in a greenhouse in the south of Italy. Company is looking for companies that can help in the product's market introduction phase.

Type of partnership

Commercial agreement with technical assistance

Investment agreement

Type and size of the partner

- **SME 11-49**

Dissemination

Technology keywords

- **08001005 - Food Technology**
- **08001002 - Food Additives/Ingredients/Functional Food**
- **08001004 - Food Processing**
- **08002003 - Safe production methods**

Targeted countries

- **World**

Market keywords

- **07003002 - Health food**

Sector groups involved