

5 October 2021

## Roots receives Notice of Allowance for US design patent

### Highlights:

- **Notice of Allowance from the United States Patent and Trademark Office (USPTO) received for Roots' innovative Heat Exchange Probe design patent**
- **Notice of Allowance is a crucial milestone in securing US patent protection and highlights completion of the Company's application – notification of full registration expected shortly**
- **US market represents a major opportunity for Roots – 15-year patent term ensures extensive market access and exclusivity**
- **US Notice of Allowance follows successful registration of the design patent in Australia, China, European Union, Turkey, Israel, United Kingdom and India**

**Roots Sustainable Agricultural Technologies Limited (ASX: ROO, "Roots" or "the Company")** is pleased to advise that it has strengthened its intellectual property portfolio, following the receipt of a Notice of Allowance from the United States Patent and Trademark Office (USPTO) for the Company's Heat Exchange Probe technology. This is a crucial step towards patent protection in the US and highlights that an application is complete and meets all requirements for a patent to be issued.

The Heat Exchange Probe is designed to heat or cool plants substrates in pots, grow bags and soil. The innovative technology and is compatible with the Company's Root Zone Temperature Optimization (RZTO) system, allowing for seamless and cost-effective installation and operation. The Heat Exchange Probe cools or heats the root zone area with the help of efficient heat pumps, allowing farmers to reduce air heating and cooling expenditures creating a sustainable solution for the agricultural industry. Its design highlights the continual innovation capabilities and significant R&D, and field trials undertaken by the Company to develop and commercialise the revolutionary technology.

The new design patent offers Roots significant intellectual property protection for the product in the US market. The US represents a very large and important opportunity for the Company, which it intends to capitalise on. The 15-year term of the patent allows an extensive coverage period and provides exclusive market access in the US. Filed in November 2019, the Notice of Allowance follows a stringent approval process. The Company expects to receive a final letter regarding completed registration from the USPTO shortly.

This milestone follows previous successful patent applications in Australia, China, the European Union, Turkey, Israel, United Kingdom and India and highlights the growing acceptance of the Company's products amongst farmers and other industry participants.

Roots is continuing to progress a targeted business development program to expand its presence in the US, as well as other international markets.



**Image:** Roots' Heat Exchange Probe deployed into grow bags

**Roots CEO, Boaz Wachtel said:** *“Receiving the Notice of Allowance for our Heat Exchange Probe technology is a great achievement and follows a long and complex application process.*

*“We are delighted that we can now securely sell our innovative product in the US, which is a large and important agricultural market. Now with patent approval, we have the ability to further our foothold in the region and remain well placed to capitalise on potential growth opportunities.*

*“Having invested significantly into our R&D initiatives to validate the effectiveness of the Heat Exchange Probe, our IP position is now strengthened across several global markets with huge potential for application. As the challenge of food security becomes more prevalent, our technology will assist producers increase crop yield and quality, providing an attractive solution for growers to increase local cultivation and reduce their carbon footprint.*

*“R&D and business development is ongoing. We are undertaking a number of initiatives, which will ensure our innovation leadership transfers into the commercialisation of cutting-edge agricultural products. We have several opportunities with farmers and cannabis cultivators pending and we look forward to updating shareholders as these materialise.”*

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**About Roots Sustainable Agricultural Technologies Ltd:**

Israeli-based, Roots Sustainable Agricultural Technologies Ltd. is developing and commercialising disruptive, modular, cutting-edge technologies to address critical problems faced by agriculture today, including management of plant's root zone temperatures and the shortage of water for irrigation.

Roots has developed proprietary know-how and patents to optimise performance, lower installation costs, and reduce energy consumption to bring maximum benefit to farmers through their two-in-one root zone heating and cooling technology and off the grid irrigation by condensation technology.

Roots is a graduate company of the Office of the Israeli Chief Scientist Technological Incubator program.

More information [www.Rootssat.com](http://www.Rootssat.com)

**About Root Zone Temperature Optimization (RZTO)**

Root Zone Temperature Optimization (RZTO) optimises plant physiology for increased growth, productivity and quality by stabilising the plant's root zone temperature. Using Ground source heat exchange (GSHE) installations either alone, or in combination with heat pumps, or with heat pumps alone, ROOTS is able to provide accurate range of root zone temperatures for farmer and the plants to obtain the multiple benefits.

This significantly increases yields, increases growing cycle planting options, improves quality, mitigates extreme heat and cold stress while significantly reducing energy consumption by stabilising and optimising the ROOTS zone temperature.

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*This announcement was authorised by the Board of Directors of Roots Sustainable Agricultural Technologies Limited.*

**Forward looking statements**

This announcement contains forward-looking statements with respect to ROOTS and its respective operations, strategy, investments, financial performance and condition. These statements generally can be identified by use of forward-looking words such as "may", "will", "expect", "estimate", "anticipate", "intends", "believe" or "continue" or the negative thereof or similar variations.

The actual results and performance of ROOTS could differ materially from those expressed or implied by such statements. Such statements are qualified in their entirety by the inherent risks and uncertainties surrounding future expectations. Some important factors that could cause actual results to differ materially from expectations include, among other things, general economic and market factors, competition and government regulation.

The cautionary statements qualify all forward-looking statements attributable to ROOTS and persons acting on its behalf. Unless otherwise stated, all forward-looking statements speak only as of the date of this announcement and ROOTS has no obligation to up-date such statements, except to the extent required by applicable laws.