

Steakholder receives positive International Search Report for patent covering HD144 fish printer's DLS

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Steakholder Foods Ltd., a global leader in 3D-printing technology for structured alt-protein production, announced that it has received a positive Written Opinion from the International Searching Authority (ISA) regarding its international patent application PCT/US 24/34252. The application covers the printing system of the company's HD144 printer for plant-based fish, which is based on its proprietary DLS (Drop Location in Space) drop-on-demand printing technology.

The ISA determined that all 21 claims in the application fulfil the requirements of novelty, inventive step, and industrial applicability, confirming the uniqueness and innovation of Steakholder's system.

The patented system includes an advanced multi-component architecture for managing and delivering bio-ink materials, gas pressure control, and a central processing module that synchronises the printer's operation. This system lies at the heart of the HD144 printer, purpose-built to produce high-fidelity, structured plant-based fish products.

DLS, Steakholder's drop-on-demand technology, enables ultra-precise deposition of micro-droplets of plant-based materials. This allows for accurate structuring and marbling that replicates the texture, layering, and appearance of conventional fish, unlocking new levels of realism in plant-based seafood.

"This positive opinion from the ISA is a meaningful milestone that reinforces the strength of our IP and the disruptive nature of our technology," said Arik Kaufman, CEO of Steakholder Foods. "Our DLS-based HD144 printer is raising the bar in plant-based seafood production, and this patent supports our global commercialisation and strategic partnership goals."