



MCYFIBER

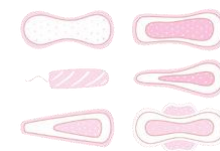
Noam Yarimi

Chief Executive Officer



MycFiber

Cost-effective, Greener & Stronger



Overview

McyFiber is developing nanocellulose-mycelium hybrid materials.

These sustainable biomaterials combine the strength of nanocellulose fibers with the versatility of fungal mycelium.

Harnessing the Power of Nature

Today, we know how to zoom out and look at the total ecosystem, understanding that every organism plays a key role in an intricate web.

The ability to decompose recycled waste is, in fact, a central missing link in our industry.

Cost-effective , Greener & Stronger

McyFiber's materials improve paper towel durability with less fibers and chemicals, making them ideal for household and industrial use. •Our materials enhance toilet paper strength, appealing to environmentally conscious consumers.



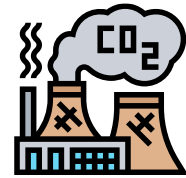
The Problem

Paper manufacturers face several challenges today



Environmental Impact and Deforestation

The paper manufacturing process relies heavily on wood pulp, leading to deforestation and loss of biodiversity. Harvesting trees for wood pulp disrupts ecosystems and wildlife habitats, causing soil erosion and reducing biodiversity.



Energy Consumption and Carbon Emissions

The paper industry is a significant consumer of energy and a major emitter of greenhouse gases. The production process involves substantial energy use, contributing to global carbon emissions.



Waste Management and Flushability

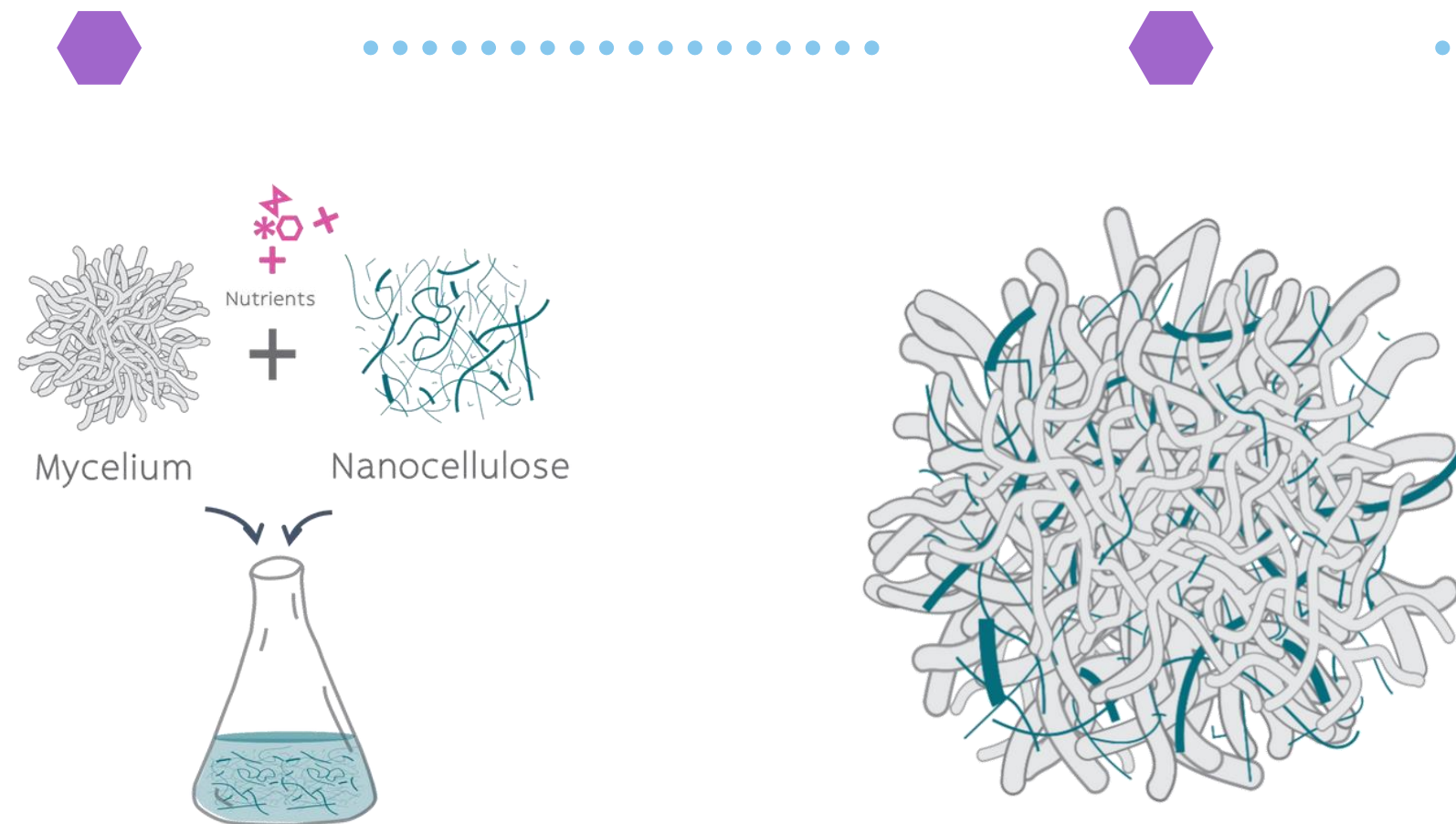
Many disposable paper products, such as wipes and tissues, end up in landfills, causing environmental issues, or sewage systems, causing blockages. Non-flushable items exacerbate waste management challenges.



The Technology

Joint incubation of mycelium & nanocellulose together with pulp fibers that produce an improved natural bio-composites with enhanced properties.

Mycelium and cellulose nanofiber (CNF) improve strength & surface properties!



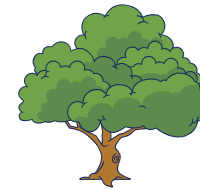
Advantages

Cheaper, Greener & Stronger



Flushable

McyFiber's ability to enhance wet strength and improve retention means that manufacturers can achieve new and improved flushable paper product ensures that consumers can dispose of it responsibly. This addresses waste management concerns and promotes better hygiene practices.



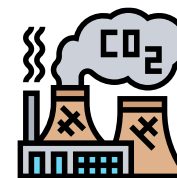
Fewer Fibers

McyFiber's ability to enhance wet strength and improve retention means that manufacturers can achieve the same paper properties with fewer fibers. This directly reduces the need for excessive wood pulp, mitigating deforestation and its environmental impact.



Reducing additives & chemicals

By reducing the need for additives and chemicals while maintaining paper properties, McyFiber can help lower the manufacturing cost and create environmentally improved products.



Saving Energy

McyFibe can help lower the manufacturing cost and create environmentally improved products



Compatibility with Existing Processes

The beauty of this solution lies in its seamless integration with current paper manufacturing processes.

**No modifications or changes are needed,
making it a true drop-in solution for paper
mills**

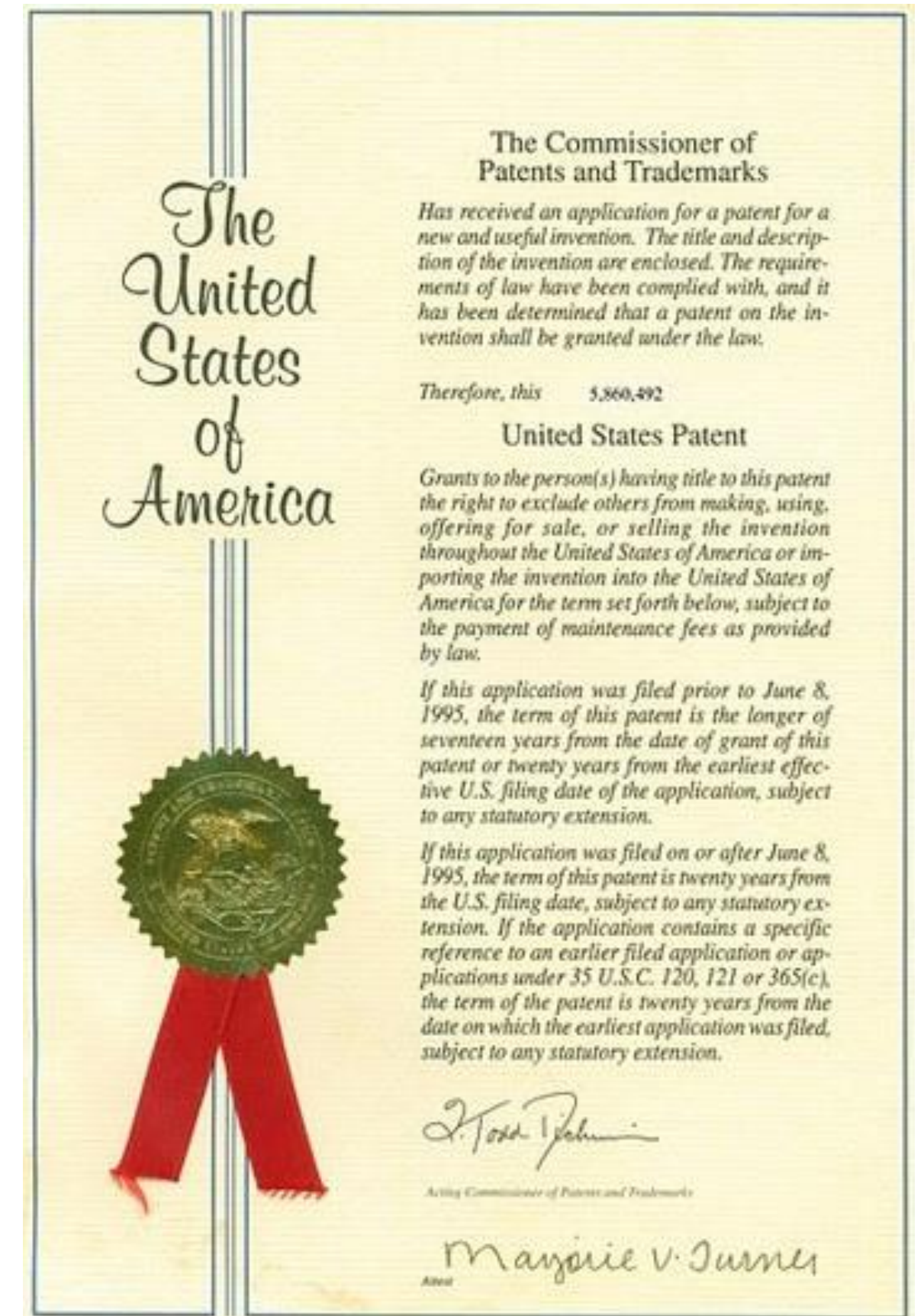


Intellectual Property

Our IP protection covers the material, the production method and the interconnection principles



Sep. 2021 - Application filed by Technion Research and Development Foundation
Status - Pending



The Market

Disposable paper market is huge and growing

Toilet Paper Market

The global toilet paper market size was estimated to be USD 51.2 billion in 2021.

It is anticipated to grow at a compounded annual growth rate (CAGR) of 4.4% from 2022 to 2030.

The market growth is driven by the growing health and wellness trend among consumers worldwide.

Paper Towels Market

The global paper towel market size was approximately USD 14.2 billion in 2023.

It is projected to grow at a CAGR of 5.2% between 2024 and 2032.

By 2032, the market is expected to reach a value of USD 22.4 billion.

Personal Care Wipes Market

The global personal care wipes market size was valued at USD 11.86 billion in 2022.

It is expected to grow at a CAGR of 6.3% from 2023 to 2030.



Business Model

Partner with B2B clients to align with sustainability trends and generate revenues within 5 years.

First Steps

Set up controlled production facility. Invest in bioreactors, drying machines, and cutting tools. Hire mycologists, production workers, and quality control personnel for POC.

Revenue Strategy

Outlicense the technology to manufacturers who can position mycelium paper to price competitively against traditional paper products.

B2B Clients

These include packaging companies, printing firms and corporations seeking eco-friendly solutions.



Meet Our Team



Noam Yarimi

Chief Executive Officer



Amir Hasidim

Chairman



Ran Laufer

Chief Business Officer



Scientific Team



Prof. Tiffany Abitbol, Ph.D.

Fiber-Based Material Science
EPFL, Switzerland



Prof. Yasha J. Grobman, Ph.D.

Computational Design
Technion, Israel





Contact Us

Noam Yarimi, CEO

noam@mcycfiber.com

+972 54-200-0850