

# About The Inventor

## Robert G. Wajda: A Visionary Approach to Innovation Background and Biomimicry



Robert G. Wajda – CIRCA 2017

**Robert G. Wajda** (born February 1, 1968) is an American inventor and entrepreneur specializing in advanced product development and applied engineering. A core focus of his early and ongoing work is biomimetics, wherein he leverages the complex mechanical and systemic efficiencies found in natural phenomena to inform and optimize modern systems architecture and product design. With over three decades of specialized expertise encompassing industrial drafting industrial electronics, Wajda is the inventor of record for multiple U.S. patents, primarily within the renewable energy sector.

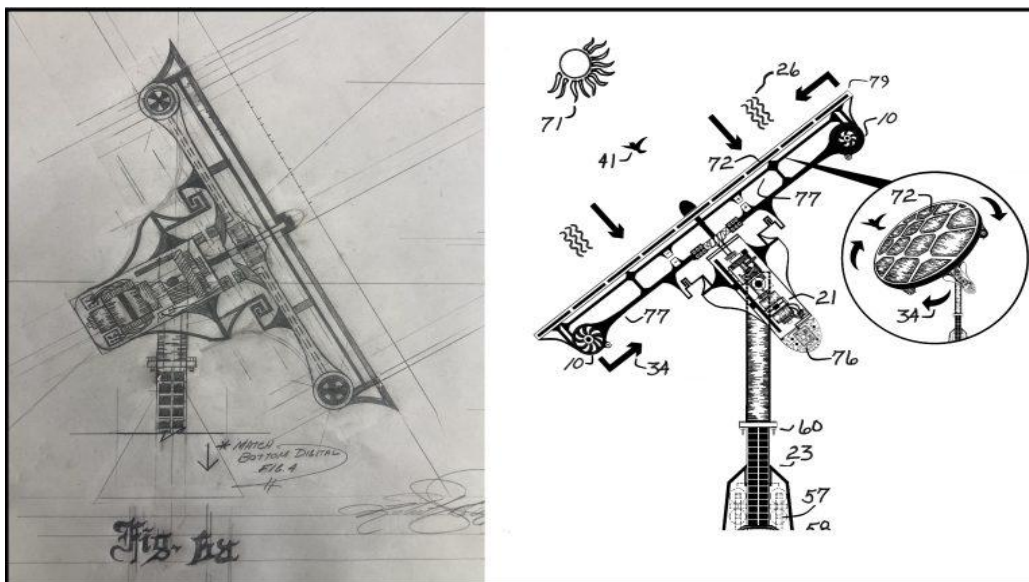
Operating as an autodidactic engineer, Wajda employs a non-traditional, first-principles approach to complex problem-solving. His research methodologies

frequently involve the forensic engineering of historical or deprecated technologies. By analyzing highly efficient yet poorly documented mechanical innovations that were prematurely abandoned by modern industry, Wajda systematically reverse-engineers and integrates these legacy mechanisms into contemporary technological applications.

## The Art of Traditional Drafting

A cornerstone of Wajda's methodology is his commitment to traditional drafting techniques. While formally trained in modern Computer-Aided Design (CAD)—allowing him to seamlessly transition concepts into 21st-century 3D environments—he firmly believes that the genesis of true innovation belongs on the drafting table.

Drawing on his academic and apprenticeship training in mechanical and industrial drafting, Wajda conceptualizes his designs using pencil and permanent India ink on 18" x 24" vellum. By working at a 45-degree angle—a favored perspective of artists and draftsmen for centuries—he optimizes his visual perception and fosters a more fluid creative process. This tactile, deliberate approach requires measured decision-making, ultimately yielding superior, tangible designs characterized by bold, meticulous line work.



**Mr. Robert Wajda sketches all drawings in pencil and then transfers them to permanent Indian Ink for a superior finish**

## **Lessons from the Past**

Wajda draws deep inspiration from the intricate patent schematics of the late 19th and early 20th centuries. In contrast to the often simplified, low-fidelity digital renderings prevalent today, he views the historical drafting of innovators like Leonardo da Vinci, Nikola Tesla, Thomas Edison, and Alexander Graham Bell as masterful works of art.

By closely studying prior art, Wajda is able to reverse-engineer the mental processes of these early pioneers. He recognizes the immense patience and concentration required to draft in permanent ink, where mistakes cannot easily be undone. This pursuit of nostalgic, high-quality craftsmanship drives him to elevate his own renderings to the same exceptional standard.

## **Mental Prototyping and Continuous Learning**

Emulating the cognitive techniques of past visionaries, Wajda engages in extensive mental prototyping. He continuously absorbs information across a wide array of disciplines, leveraging modern digital resources and media to build a vast knowledge base.

Because problem-solving is a continuous, subconscious process, Wajda mentally simulates and refines his product designs thousands of times before a single pen stroke is made. Much like Nikola Tesla's documented ability to visualize complete inventions internally, Wajda's rigorous mental iteration ensures that by the time a concept reaches the vellum, the most complex engineering challenges have already been resolved.

## **The Inventor**

At his core, Mr. Wajda is a visionary in the renewable energy space, bringing an uncompromising dedication to bringing this vital technology to the world. Where engineers have struggled for over a hundred years, he found clarity. By applying fundamental physics, he secured a masterstroke patent that dismantles not just one, but a complex web of longstanding systemic challenges. That he achieved this monumental engineering feat with minimal resources is a testament to his sheer brilliance and tenacity. This project is on the precipice of changing the industry—and

with the introduction of foundational capital, Mr. Wajda is poised to turn this groundbreaking patent into a global reality.

Feel free to explore the reference links below for more information.

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