



Wave Energy Converter

This invention generates electricity from ocean waves.

Problem

Most generators that capture hydrokinetic energy require tuning and realignment depending on wave frequencies and directions. Such ongoing reconfiguration and maintenance adds cost to the overall process.

Solution

This simple design works efficiently in varied-frequency, multi-directional, irregular waves. It is also easy to integrate with various power take-off systems and platforms.

Value Proposition

This invention is a simply structured multidirectional wave energy converter that transfers wave energy into electricity with no need for further reconfigurations to fit wave frequencies and directions.

Competitive Advantages

- Generates energy from waves in any direction
- Generates energy from irregular wave motion
- No need for tuning
- One-piece rotor construction
- Various rotor blade designs

Status of Development

- Seeking commercial partners

IP Status

- US Patent #D821316, #D821317, #D821318, #D821319, #US10738756B2
- Licenses available

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