

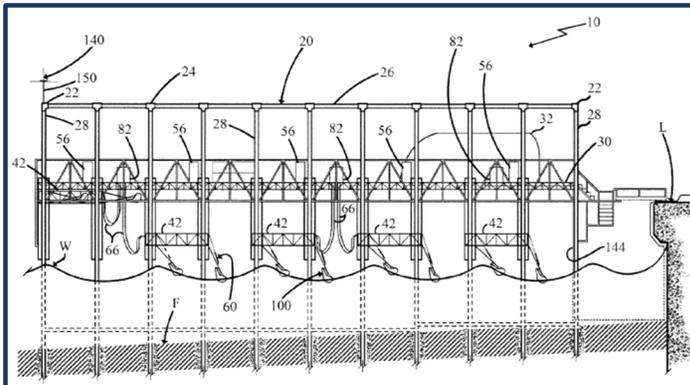
# AmiCOUR IP Group

## United States Patent Number 8,035,243

### System to Obtain Energy from Water Waves

\*\*\*This Portfolio is Offered for Sale\*\*\*

#### Energy Harvesting: Water Waves Are Loaded With Power



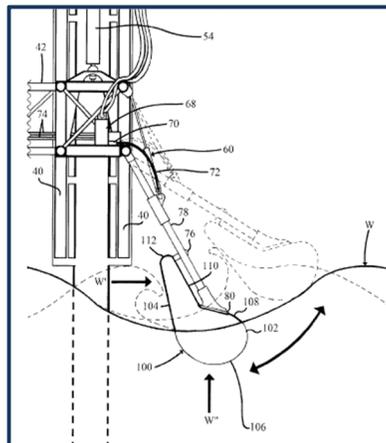
Every beach visitor knows even small waves pack a big punch. The kinetic energy available in a water wave may be captured as mechanical motion and converted to hydraulic or "fluid" power, which is easily transformed into clean electrical energy.

U.S. Patent 8,035,243 teaches one of the most practical systems engineered to date for harnessing the energy from water waves. The know-how and expertise of inventor Manuel Constanzo Mesa stands ready to help commercialize this compelling way to harvest wave energy to generate electrical power.

#### Practical Reality: A New Approach for Solving Historical Engineering Challenges

With historical evidence of machines to convert the ocean waves into useful power dating back to 1799, the rich history of wave power ideas has awaited the arrival of certain enabling technologies and design solutions needed to make them commercially feasible. Wave power technology has certainly addressed easily recognized challenges such as the rise and fall of tides; variations in the sizes, shapes, and quantity of waves and the amount of available energy during weather conditions ranging from calm seas to hurricanes; and, of course, the expected environmental conditions, which include corrosive salt water, thermal cycling, shifting shorelines, wind, and sun. Inventor Mesa has delivered a practical energy system overcoming these challenges.

His hydrokinetic technology harnesses energy from wave crests and troughs using specially designed floats combined with computerized hydraulics to assure optimal positioning across the water surface. This novel hydraulic positioning system allows for greater energy absorption. A second, more traditional hydraulic fluid power system performs a summation of individual yet powerful wave forces in order to drive a hydraulic motor. Hydraulic motors have the ability to efficiently transform hydraulic pressure and flow into high torque rotational force sufficient to drive generators ready to feed the electrical grid.



#### Demonstration and Validation: Harvesting Water Wave Energy Will Become Reality

Several funded demonstration installations aimed at proving the value of earlier wave driven power plants have been built with mixed outcomes. The timing is ideal for a demonstration and validation phase of a new system based on better mechanical systems, advanced material selections, and Mesa's optimized design concepts. His novel computerized hydraulic positioning technology is essential to next generation commercial facilities. The successful acquisition of patent rights claimed in USPN 8,035,243 will position a successful buyer or licensee to commercialize Mesa's technology and take the first steps toward building a full scale facility for capturing the abundant green energy available in water waves.

#### For More Information: Call Today!

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