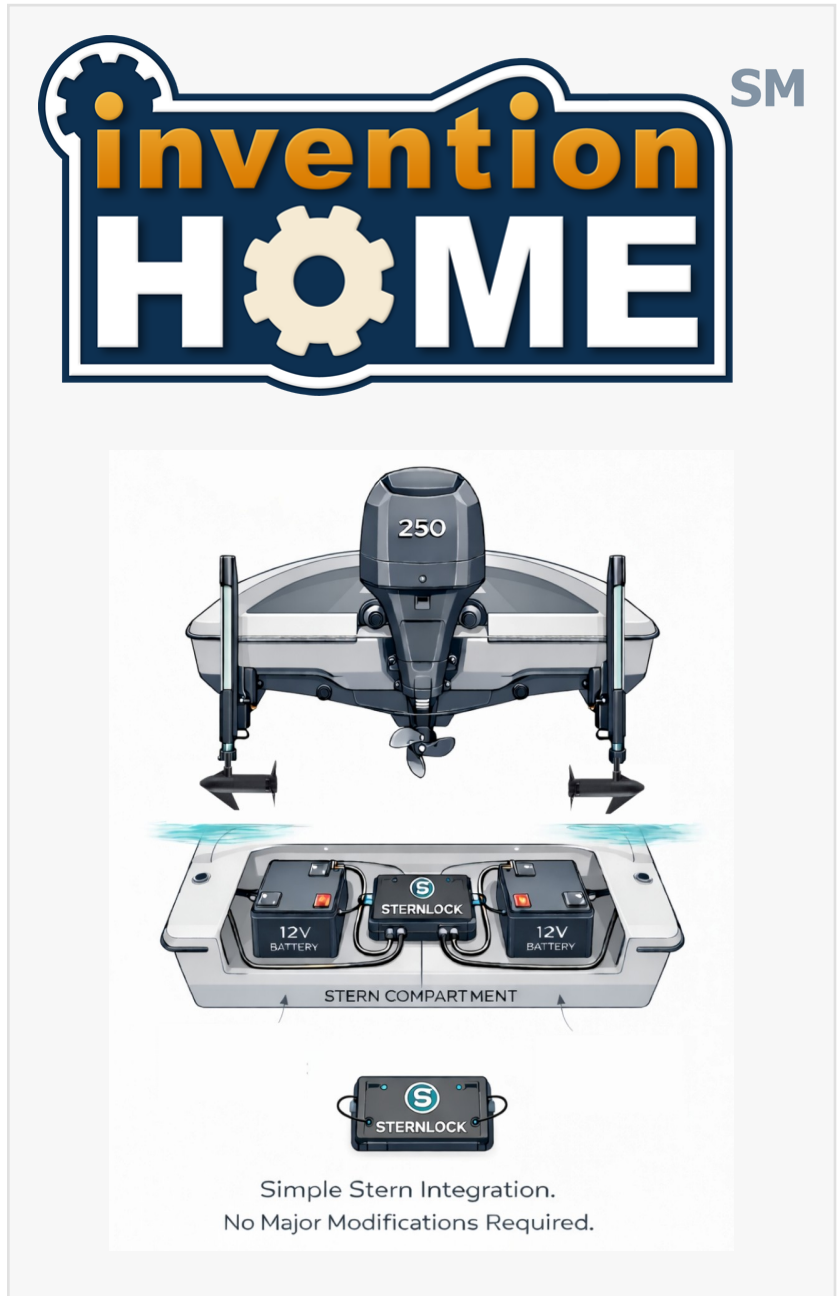


# InventionHome® Product Developer Creates Stern Stabilization System to Improve Control in Freshwater Fishing Vessels

PITTSBURGH, PA, UNITED STATES, April 16, 2026 /EINPresswire.com/ -- Christopher E. of Tuscaloosa, AL is the creator of the SternLock, a marine vessel control system designed to address directional instability in small freshwater fishing boats. The system is engineered to stabilize the stern of vessels typically ranging from 17 to 21 feet in length, complementing existing bow-mounted trolling motor anchoring technologies that primarily control forward positioning.

Conventional trolling motor “spot-lock” systems are widely used to maintain a fixed GPS position by controlling the bow of a vessel. However, these systems do not actively stabilize the stern, which remains susceptible to lateral drift and rotational swing caused by wind, water current, or wake. This results in continuous misalignment that requires manual correction by the operator, potentially reducing casting accuracy, increasing fatigue, and introducing safety risks near structures or shallow areas.

SternLock is centered around a marine-grade control module designed to integrate with compatible stern-mounted thrusting systems provided by third-party manufacturers. The system does not include thrusters, but instead functions as an intelligent control layer that manages and optimizes stern-based



directional correction.

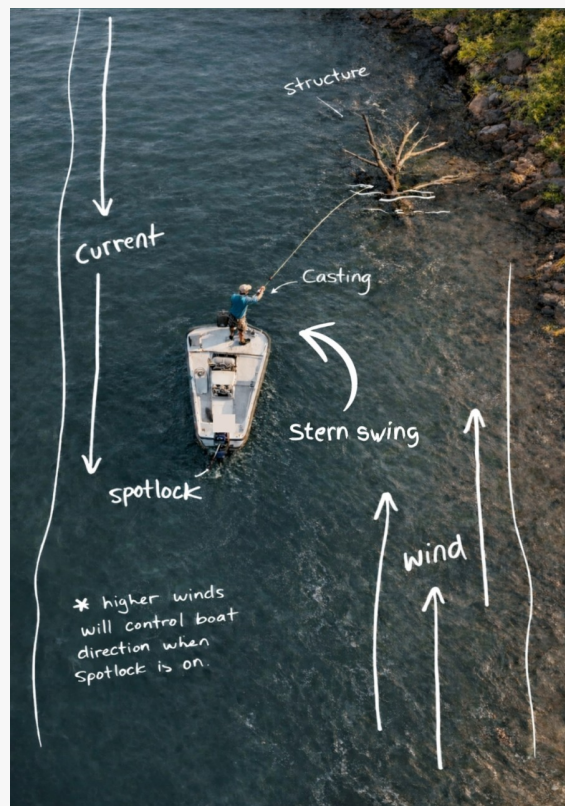
The control module interfaces with the vessel's 12V electrical system and utilizes motion-sensing technology (IMU) with optional GPS input to continuously monitor vessel orientation relative to a defined heading. When deviation from the target alignment is detected, the control module automatically communicates with and directs compatible stern-mounted thrusters to counteract drift and restore the desired direction and alignment. This closed-loop feedback mechanism enables dynamic correction without requiring continuous user input. User interaction is supported through multiple control interfaces including a console-mounted joystick, a Bluetooth-enabled foot switch, and optional mobile application integration. The mobile interface may provide additional functionality such as calibration, system diagnostics, trip analytics, and configuration of advanced operating modes.

SternLock is designed as a platform technology that enables existing marine manufacturers to enhance their products without redesigning their hardware. By serving as the intelligent control layer, SternLock creates partnership opportunities with

companies producing stern-mounted thrusting systems, rather than competing with them.

The system architecture supports both original equipment manufacturer (OEM) integration and aftermarket installation to facilitate compatibility with a wide range of vessel configurations. Advanced configurations of the system may include adaptive drift compensation, wake and wave response algorithms, battery management features, and security-oriented functions such as immobilization or theft deterrence

Key features and benefits include:



- Stern Directional Stabilization: Actively controls the rear of the vessel to maintain a desired heading and improve alignment while fishing.
- Closed-Loop Orientation Control: Uses motion sensors (IMU) with optional GPS input to detect drift and automatically correct vessel alignment in real time.
- Thruster Compatibility: Interfaces with compatible third-party stern-mounted thrusters to provide targeted lateral and rotational adjustments.
- Reduced Operator Workload: Minimizes the need for manual corrections to allow users to focus on fishing tasks.
- Durable Marine-Grade Construction: Engineered to withstand freshwater conditions like exposure to moisture and mechanical stress.

SternLock offers a systems-level enhancement to small-vessel positioning by extending active control from the bow to the stern. The platform ultimately enables more stable and precise vessel alignment in dynamic environmental conditions. While traditional systems hold position, SternLock is designed to maintain directional control—ensuring anglers stay aligned with their target.

Christopher filed his Utility Patent with the United States Patent and Trademark Office (USPTO) and is working closely with [InventionHome](#), a leading invention licensing firm, to sell or license the patent rights to his SternLock product. Ideal licensing candidates would be U.S. based product manufacturers or distributors looking to further develop and distribute this product innovation.

Companies interested in the SternLock can contact InventionHome at [member@inventionhome.com](mailto:member@inventionhome.com). Inventors currently looking for assistance in patenting, marketing, or licensing their invention can request information from InventionHome at [info@inventionhome.com](mailto:info@inventionhome.com) or by calling 1-866-844-6512.

## About InventionHome®

InventionHome® is a top-rated invention marketing and product licensing company dedicated to helping inventors successfully patent, prototype, and promote their new product ideas. From securing intellectual property to connecting with potential licensees, InventionHome® offers a streamlined path to commercialization. Learn more at <https://www.inventionhome.com> or email [info@inventionhome.com](mailto:info@inventionhome.com).

For expert guidance on every step of the invention process, visit our growing library of inventor resources and articles at <https://inventionhome.com/articles>.

InventionHome  
InventionHome

+1 866-844-6512  
info@inventionhome.com

---

This press release can be viewed online at: <https://www.einpresswire.com/article/906130097>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.