

UNITED STATES DISTRICT COURT  
WESTERN DISTRICT OF NORTH CAROLINA  
CHARLOTTE DIVISION

FBA OPERATING CO.,

Plaintiff,

v.

Civil Action No. 3:22-cv-173

RHINO STORM,

**JURY TRIAL DEMANDED**

Defendant.

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**COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff, FBA Operating Co. (“Plaintiff”), by and through undersigned counsel, for its Complaint against Defendant, Rhino Storm (“Defendant”), alleges the following:

**THE PARTIES**

1. Plaintiff, FBA Operating Co. (“Plaintiff”), is a corporation, organized and existing under the laws of the State of North Carolina with a principal place of business located at 36 Rosscraggon Road, Suite D, Asheville, North Carolina 28803.

2. On information and belief, Defendant, Rhino Storm (“Defendant” or “Rhino Storm”), is a company organized and existing under the laws of the Peoples Republic of China, with a principal place of business located at Hangzhou, Blue Ocean Engine 1, No. 301, Binxing Road, Binjiang District, Zhejiang Province 315000.

**JURISDICTION AND VENUE**

3. This action arises under the patent laws of the United States, Title 35 of the United States Code, 35 U.S.C. § 101, et seq. This Court has exclusive subject matter jurisdiction over this case for patent infringement under 28 U.S.C. §§ 1331 and 1338(a).

4. This Court has personal jurisdiction over Defendant for at least the following reasons: (1) Defendant has and continues to commit acts of patent infringement and induces acts of patent infringement by others in this District and in this Division; (2) Defendant engages in other persistent courses of conduct and derives substantial revenue from products and/or services provided to individuals and businesses in this District and in this Division; and (3) Defendant has purposefully established systematic and continuous contacts with this District and with this Division and should reasonably expect to be brought to Court here.

5. Venue is proper in this district under 28 U.S.C. §§ 1391(b) and (c), and 1400(b) because Defendant does business in this District and in this Division and Defendant has committed acts of infringement in this District and in this Division.

#### **THE ASSERTED PATENT**

6. U.S. Patent No. 10,890,925 B2 (“the ‘925 Patent” or “Asserted Patent”) pertains to a leveling system for use with a vehicle, such as a recreational vehicle. In brief, a sensor device affixed to a vehicle, is used to calculate adjustments to be made to the pitch (“P”) and roll (“R”) of the vehicle. The sensor device communicates the calculated adjustment information to a smart device, such as a smartphone. The end user may utilize the adjustment information provided to adjust the P and R of the vehicle to a level position.

7. Plaintiff is the owner of the ‘925 patent and holds and owns all rights and interests in that patent, including the right to sue for past infringement. The ‘925 Patent is valid and enforceable.

8. On January 12, 2021, the United States Patent and Trademark Office (“USPTO”) duly and legally issued the ‘925 Patent entitled, “Vehicle leveling systems, devices and methods and computer program products for leveling vehicles using smart devices” to Command

Electronics, LLC (“Command”). A true and correct copy of the patent ‘925 is attached hereto as *Exhibit A*.

9. The ‘925 Patent contains 20 claims. Claim 1 is independent; claims 2-9 depend directly or indirectly from claim 1. Claim 10 is independent; claims 11-14 depend directly or indirectly from claim 10. Claim 15 is independent; claims 16-20 depend directly or indirectly from claim 15.

10. **Claim 1** of the ‘925 patent, reads as follows:

A system for leveling a vehicle, the system comprising:

A sensor device secured to a vehicle to sense an inclination

of the vehicle in both a pitch direction and a roll direction when the vehicle is parked on an uneven surface of the ground, the sensor device comprising a printed circuit board that includes:

a digital accelerometer that permits calculation in both the pitch direction and roll direction, and

a processor to process data collected by the digital accelerator; and

a smart device in wireless communication with the sensor device, the smart device including a display screen;

wherein, based on the inclination of the vehicle as sensed by the sensor device, at least one of the sensor device and smart device is configured to determine adjustment pairs, each adjustment pair including a height adjustment amount and a corresponding adjustment direction needed to level a respective section of the vehicle by movement of the respective section of the vehicle with respect to the uneven surface of the ground by the height adjustment amount in the corresponding adjustment direction;

wherein the display device of the smart device is configured to display at least one image representative of the vehicle and showing the respective sections of the vehicle and to simultaneously display the height adjustment amount and corresponding adjustment direction of each adjustment pair adjacent to each respective section of the vehicle shown in the at least one image; and

wherein the smart device is further configured to update the display screen, substantially in real time, as one or more of the height adjustment amounts are changed.

11. The Rhino Storm RVLevelerPro infringes at least Claim 1 of the '925 Patent.

12. **Claim 10**, of the '925 patent, reads as follows:

A method for leveling a recreational vehicle, the method comprising:

sensing an inclination of the recreational vehicle in both a pitch direction and a roll direction when the recreational vehicle is parked on an uneven surface of the ground;

based on the sensed inclination of the recreational vehicle, determining adjustment pairs, each adjustment pair including a height adjustment amount and a corresponding adjustment direction needed to level a respective section of the recreational vehicle by movement of the respective section of the recreational vehicle with respect to the uneven surface of the ground by the height adjustment amount in the corresponding adjustment direction;

displaying at least one image, representative of the recreational vehicle and showing the respective sections of the recreational vehicle, on a display screen of a smart device;

simultaneously displaying the height adjustment amount and corresponding adjustment direction of each adjustment pair on the display screen adjacent to each respective section of the recreational vehicle in the at least one image; and

updating the display screen, essentially in real time, as the height adjustment amounts are changed.

13. The Rhino Storm RVLevelerPro infringes at least claim 10 of the '925 Patent.

14. **Claim 15**, of the '925 patent, reads as follows:

A non-transitory computer readable medium comprising computer executable instructions that, when executed by a processor of a smart device, control the smart device to perform steps comprising:

receiving a pitch angle measurement and a roll angle measurement of a vehicle from a sensor device secured to the vehicle when the vehicle is parked on an uneven surface of the ground;

based on the pitch angle measurement and roll angle measurement, calculating adjustment pairs, each adjustment pair include a height adjustment amount and a corresponding adjustment direction needed to level the vehicle by movement of the respective section of the vehicle with respect to the uneven surface of the ground by the height adjustment amount in the corresponding adjustment direction; and

displaying, on a display screen of the smart device, at least one image representative of the vehicle and showing the respective sections of the recreational vehicle;

simultaneously displaying, on the display screen of the smart device, the height adjustment amount and corresponding adjustment direction of each adjustment pair adjacent to each respective section of the vehicle in the at least one image; and

updating the display screen of the smart device, essentially in real time, as the height needed to adjust the vehicle to level the vehicle changes.

15. The Rhino Storm RVLevelerPro infringes at least claim 15 of the '925 Patent.

16. On December 23, 2021, Command and FBA entered into an Asset Purchase Agreement in which FBA agreed to purchase and assume from Command, all of Command's rights, titles, and interests, including all rights and interests in the '925 patent, in exchange for valuable consideration. As the result of the sale, FBA acquired all rights to the '925 patent from Command, free and clear of all encumbrances.

17. Charles A. Leonard is the named inventor of the '925 Patent.

18. Plaintiff is the sole owner of the '925 patent and holds all rights and interests in the '925 patent, including the right to sue for past infringement. Further, the Asserted Patent is valid and enforceable.

## **FACTUAL BACKGROUND**

19. A recreational vehicle (“RV”) should be leveled whether in storage or in use for both practical and technical reasons. Practical reasons include a level floor, proper door swings, stove and sink use, as well as many others. Technical reasons include proper operation of an ammonia-based refrigerator, to ensure holding tanks are properly leveled to permit accurate detection by electronic means, and to ensure proper operation of the RV’s plumbing systems.

20. However, many RVs do not possess any native leveling capabilities beyond raising and lowering of the front of the RV with manual or electric jacks. To ensure the RV is level, and without the benefit of the patented invention of the ‘925 Patent, the driver must exit the vehicle, then manually assess the RV’s position in relation to the ground underneath to determine if the RV is out of level. While bubble levels may be attached to the side, front, and/or rear of an RV, the driver still must make an educated guess as to what adjustments are necessary to ensure that the RV is level with the ground underneath. Typically, this is done by trial and error, requiring the driver to make multiple attempts at raising the appropriate wheels the necessary amount to achieve a level position. It is not uncommon for this process to be repeated several times to achieve a level roll orientation. Importantly, this manual process is imprecise and prone to user error.

21. Further, if bubble levels are being used to determine the RV’s level orientation, it is common knowledge that a bubble level has an error range of 2-3 degrees. This allows for a significant margin for error as it relates to RVs and can cause doors, plumbing and other objects and systems within the RV not to operate properly. This margin of error can cause significant and costly damage to the RV’s various systems. As such, a need existed in the prior art for a system for easily and inexpensively leveling an RV that does require not many attempts to achieve a level

balance of the RV in both the pitch and the roll directions in relation to the ground underneath the vehicle.

22. The leveling system described in the '925 patent can include a sensor device secured to a vehicle to sense at least one of an inclination or an orientation of the vehicle in both a pitch direction and a roll directions. Also, the leveling system can include a smart device in communication with the sensor device to allow information received from the sensor device to be processed to provide measurements to a user and to determine the amount of adjustments needed in height to at least one of the pitch direction or the roll direction to level the vehicle.

23. Plaintiff's invention was disclosed in the '925 Patent.

24. Plaintiff practices the claimed invention of the '925 Patent. Plaintiff's patented invention enables users to adjust the level a vehicle and adjust the vehicle's pitch and roll directions when a vehicle is parked on an uneven surface using information displayed on smart devices. For example, consumer related products can be found at Amazon.com, among other sites.

25. Plaintiff is committed to continuing to derive revenue from its products which practice the '925 Patent, including by excluding others from infringing its rights in the '925 Patent.

#### **DEFENDANT'S INFRINGEMENT OF THE ASSERTED PATENT**

26. Defendant has had notice of its infringement by at least one U.S. Post Office certified letter accompanying the instant Complaint, and constructive notice of the existence of the Asserted Patent by USPTO pre-issue publication date, by USPTO issue date of the Asserted Patent, and at the very least by, the delivery of the instant Complaint.

27. Further, Defendant has had notice of its infringement on at least two separate occasions. Plaintiff submitted two Patent Infringement Complaints via the very same online marketplace on which both Plaintiff's and Defendant's products are sold, Amazon.com.

28. On September 16, 2021, Plaintiff submitted a Patent Infringement Complaint to Amazon identifying Defendant’s ongoing infringement of the ‘925 Patent, below:

**Complaint details**<sup>BETA</sup>

**Status:** ⊘ Not accepted

**Date submitted:** Sep 16, 2021, 08:00 AM

**Amazon store:** amazon.com

**Infringement type:** Patent: Utility patent

**Brand:** LogicBlue Technology

**Patent registration:** 10890925

**Contact name:** Charles Leonard

**Contact email:** chuck@command-electronics.com

**Submitter email:** chuck@command-electronics.com

**Submission channel:** Report a Violation

**Additional information**

The product violates each and every one of the 20 allowed claims in our utility patent. Specifically our patent covers the mounting of a module inside an RV that communicates leveling data to a smartphone. It also covers many other aspects of our LevelMatePRO product (ASIN B01FGGSWPW) such as the display of leveling data in conjunction with RV images on a smartphone, temperature calibration of the data, the display of leveling information for all 4 wheels of an RV and many other intricate parts of the invention. I have reported infringement on this product before but it was out of stock for a long time and now it is back in stock and the listing needs to be removed for this blatant infringement.

[Retract a complaint](#) | [Escalate a complaint](#)

ASIN ↓	Product name ↑	Content reported ↑	Last status update ↑	Status ↑
B08N4RVK8H	Rhino Storm RV Leveler Wireless Vehicle Leveling System Fit for RVs, Campers, Trailers, 5th Wheels	Complete ASIN - all offers	Sep 16, 2021, 08:00 AM	<span style="color: red;">⊘</span> Not accepted

29. Then, on September 24, 2021, Plaintiff submitted another Patent infringement Complaint to Amazon identifying Defendant’s infringement of the ‘925 Patent, below:

**Complaint details**<sup>BETA</sup>

**Status:** ⊘ Not accepted

**Date submitted:** Sep 22, 2021, 05:07 AM

**Amazon store:** amazon.com

**Infringement type:** Copyright: Product or packaging

**Brand:** LogicBlue Technology

**Website link:** <https://logicbluetech.com>

**Contact name:** Charles Leonard

**Contact email:** chuck@command-electronics.com

**Submitter email:** chuck@command-electronics.com

**Submission channel:** Report a Violation

**Additional information**

Nearly everything about this product was copied from our website which contains a copyright mark at the bottom of every page. The LevelMatePRO app screens, the LevelMatePRO product label including identical text and angles as well as text describing the LevelMatePRO features. The text used for the bullet points on the Amazon product listing for the infringing Rhino Storm RV Leveler is nearly an exact copy of text used for the bullet points of our Amazon product listing for the LevelMatePRO which has been on Amazon since 2016. The Rhino Storm RV Leveler app images also infringe on our US Patent 10890925 in that they display leveling information in conjunction with representative RV images. This product is a blatant infringement of both our copyrighted text and images and our currently active US Patent.

[Retract a complaint](#) | [Escalate a complaint](#)

ASIN ↓	Product name ↑	Content reported ↑	Last status update ↑	Status ↑
B08N4RVK8H	Rhino Storm RV Leveler Wireless Vehicle Leveling System Fit for RVs, Campers, Trailers, 5th Wheels	Complete ASIN - all offers	Sep 24, 2021, 01:44 PM	<span style="color: red;">⊘</span> Not accepted

30. Defendant has infringed and continues to infringe the claims of the ‘925 Patent instead of properly licensing from the rights to practice the ‘925 Patent from Plaintiff. Further, Defendant makes, uses, sells, offers to sell, and continues to sell and offer to sell, products that infringe the ‘925 Patent despite Plaintiff’s Complaints for Patent Infringement. Moreover,



Defendant has generated revenue and profits as a direct result of its infringing activity. Defendant's infringement of the '925 patent has directly and detrimentally affected Plaintiff's business revenues, market share, good will, as well as its reputation. Plaintiff has been, and continues to be, irreparably harmed.

31. Defendant sells a virtually identical product, called the Rhino Storm RVLevelerPro, which directly competes with Plaintiff's product and which practices at least one claim of the '925 Patent.

32. Defendant continues to infringe the '925 Patent through its development, testing, manufacture, promotion, and sale of the Rhino Storm RVLevelerPro.

33. Defendant has not obtained, nor does it have, any permission or license from Plaintiff to practice the '925 Patent.

#### **COUNT I – DIRECT INFRINGEMENT OF THE '925 PATENT**

34. Plaintiff incorporates and realleges paragraphs 1 through 33 of this Complaint.

35. Defendant has infringed and continues to directly infringe upon one or more claims of the '925 Patent, either literally or under the Doctrine of Equivalents, by making, using, selling and/or offering to sell in the United States and/or importing into the United States and exporting out of the United States, one or more of Defendant's products including the Rhino Storm RVLevelerPro identified in this Complaint. Defendant's infringing activities violates 35 U.S.C. § 271(a).

36. Upon information and belief, Defendant's infringement of the '925 patent has been, and continues to be, intentional, willful, and without regard to Plaintiff's rights. Moreover, Plaintiff is informed and believes, and on that basis alleges, that Defendant's infringement of the '925 patent is and has been intentional, deliberate, and willful at least because Defendant had pre-suit

knowledge of the '925 patent through direct or indirect communications with Plaintiff and/or because of its participation and sale of the Rhino Storm RVLevelerPro in the same marketplace in which Plaintiff sells its devices. Defendant continued to infringe the '925 Patent despite having pre-suit knowledge and despite having the requisite knowledge that its conduct constituted infringement of a valid patent.

37. Upon information and belief, Plaintiff alleges that Defendant has gained revenues by virtue of its infringement of the '925 patent.

38. Plaintiff has sustained damages as a direct and proximate result of Defendant's infringement of the '925 patent.

39. Plaintiff will suffer, and is suffering, irreparable harm from Defendant's infringement of the '925 patent. Plaintiff has no adequate remedy at law and is entitled to an injunction against Defendant's continuing infringement of the '925 patent. Unless enjoined, Defendant will continue its infringing conduct.

40. Defendant's infringement of the '925 patent renders this case exceptional within the meaning of 35 U.S.C. § 285.

#### **COUNT II – INDIRECT INFRINGEMENT OF THE '925 PATENT**

41. Plaintiff incorporates and realleges paragraphs 1 through 40 of this Complaint.

42. Defendant has indirectly infringed and continues to indirectly infringe upon one or more claims of the '925 Patent by actively inducing others to practice the '925 Patent, including but not limited to, inducing its end-users to use the Rhino Storm RVLevelerPro as intended. Defendant's infringing activities violates 35 U.S.C. § 271(b), either literally or else under the doctrine of equivalents.

43. Defendant has infringed and continues to infringe, under the Doctrine of Equivalents, one or more claims of the '925 Patent by using, selling and/or offering to sell in the United States and/or importing into the United States and exporting out of the United States, one or more of Defendant's products that infringe the '925 Patent, including those products identified in this Complaint.

44. Plaintiff is informed and believes, and on that basis alleges, that Defendant has gained revenues by virtue of its infringement of the '925 patent.

45. Plaintiff has sustained damages as a direct and proximate result of Defendant's infringement of the '925 patent.

46. Plaintiff will suffer and is suffering irreparable harm from Defendant's continued infringement of the '925 patent. Moreover, Plaintiff has no adequate remedy at law and is entitled to an injunction against Defendant's continuing infringement of the '925 patent. Unless enjoined, Defendant will continue its infringing conduct.

47. Defendant's infringement of the '925 patent renders this case exceptional within the meaning of 35 U.S.C. § 285.

#### **PRAYER FOR RELIEF**

1. A judgement that Plaintiff's Asserted Patent is valid and enforceable;
2. A judgement that Defendant has directly infringed and induced infringement of one or more claim of Plaintiff's Asserted Patent;
3. An Order and judgement preliminarily and permanently enjoining Defendant, its officers, directors, agents, servants, employees, affiliates, attorneys, all others acting in privity or in concert with them, and their parents, subsidiaries, divisions, successors and assigns from further acts of infringement of Plaintiff's Asserted Patent;

4. A judgement awarding Plaintiff all damages adequate to compensate Plaintiff for Defendants infringement of Plaintiff's Asserted Patent, and in no event, less than a reasonable royalty, including all pre-judgement and post-judgment interest at the maximum interest rate permitted by law;

5. A judgement awarding Plaintiff all damages, including treble damages, based on any infringement found to be willful, pursuant to 35 U.S.C. § 284, in addition to prejudgment interest;

6. Actual damages suffered by Plaintiff as a result of Defendant's unlawful conduct, in an amount to be proven at trial, in addition to prejudgment interest as authorized by law;

7. A judgement that this is an exceptional case and an award to Plaintiff its costs and reasonable attorneys' fees incurred in this action, as provided by 35 U.S.C. § 285; and

8. Any further relief this Court deems to be just and proper under the circumstances.

#### **DEMAND FOR JURY TRIAL**

Pursuant to Rule 38(b) of the Federal Rules of Civil Procedure, Plaintiff hereby demands trial by jury on all issues raised by the Complaint.

#### **RESERVATION OF RIGHTS**

Plaintiff reserves the right, upon further investigation and discovery, to assert such claims against Defendant and other responsible parties as may be just and appropriate under the circumstances.

This the 19th day of April, 2022.

Respectfully submitted,

/s/ Samuel Alexander Long, Jr.  
Samuel Alexander Long, Jr. (N.C. Bar No. 46588)

Tom BenGera (N.C. Bar No. 57019)  
SHUMAKER, LOOP & KENDRICK, LLP  
101 South Tryon St., Suite 2200  
Charlotte, North Carolina 28280-0002  
Telephone: 704-945-2911  
Fax: 704-332-1197  
Email: [along@shumaker.com](mailto:along@shumaker.com)  
[tbengera@shumaker.com](mailto:tbengera@shumaker.com)