

California Inventor Debuts Smart Golf Ball That Tracks Every Stroke, GPS Location, and Simulator Play – Patent Pending

Patented smart ball technology eliminates manual scorekeeping, lost balls, and expensive launch monitors — delivering real-time shot data, GPS tracking, and at-home simulator play in one regulation golf ball.



Turlock, California Aug 21, 2026 ([Issuewire.com](https://www.issuewire.com)) - California Inventor Unveils Patent-Pending "Golf Ball Hit Tracker": A Regulation Ball That Turns Every Swing into Data and Every Room into a Simulator

Donald Vierra, a California-based inventor, today announced the development of the Golf Ball Hit Tracker, a regulation-size, regulation-weight smart golf ball that embeds advanced sensor technology to deliver real-time shot analysis, GPS tracking, and an at-home simulator experience. The system is protected by a pending non-provisional utility patent with 20 claims covering the ball, embedded sensors, mobile application, and system architecture.

The Golf Ball Hit Tracker is designed to eliminate the need for expensive launch monitors and external

club sensors. The ball's fully embedded electronic system automatically detects every stroke, tracking spin rate, launch speed, GPS location, and shot distance, then syncs wirelessly with a companion mobile app.

"The Golf Ball Hit Tracker is more than a ball – it's a complete golf ecosystem," said Donald Vierra, inventor. "Whether you're on the course, on the range, or practicing indoors with a net and TV, the ball captures every detail of your swing, provides instant feedback, and stores your performance history. It's golf for the modern era."

Key Features

- Automatic stroke detection – eliminates manual scorekeeping
- GPS ball location – find lost balls instantly with course mapping
- Shot distance & trajectory – pro-level data without expensive hardware
- Mobile app scorecard – automatically updates stats and shot history
- At-home simulator mode – practice indoors with a net and TV connectivity
- Multiplayer mode – live leaderboards for groups and tournaments
- Cloud sync – store every round forever and track long-term performance

How It Works

Unlike existing solutions that require external sensors, club attachments, or expensive launch monitors, the Golf Ball Hit Tracker is entirely self-contained. The ball's embedded electronics capture impact data, movement characteristics, pressure information, and location data. A microcontroller processes the sensor data to validate strokes, calculate shot distance, track spin and launch speed, and generate gameplay information — all transmitted wirelessly to the user's mobile device.

Patent & IP Status

The Golf Ball Hit Tracker is protected by a pending non-provisional utility patent (Serial No. 19/735,874) with 20 claims covering the ball, sensors, app, and system. A clean prior art search has been completed with no conflicting patents identified. Early publication has been requested.

Market Opportunity

The global golf ball market exceeds \$8.4 billion annually, with over 66 million golfers worldwide. More than 300 million golf balls are lost each year, and the smart sports equipment market is growing at a compound annual growth rate of 15%+. The Golf Ball Hit Tracker addresses a clear gap in the market: a single, self-contained ball that combines course play, at-home simulation, and performance analytics without the need for expensive external hardware.

Quote from the Inventor

"The golf ball has remained largely unchanged for decades, while the rest of the sports world has embraced technology to enhance training, competition, and fan engagement," Vierra added. "We believe the Golf Ball Hit Tracker is the next evolution of the game – giving golfers of all levels the ability to track, analyze, and improve every shot they take."

About the Inventor

Donald Vierra is an independent inventor based in California with a background in product development and a passion for golf technology. He holds a pending non-provisional utility patent for the Golf Ball Hit Tracker system.

Contact

Donald Vierra
???? (209) 281-0284
?? vierradonney@yahoo.com
Patent Pending – U.S. Application Serial No. 19/735,874

Media Contact (via InventionHome):
InventionHome®
???? 1-866-844-6512
?? info@inventionhome.com
www.inventionhome.com



Media Contact

Golf ball hit tracker

*****@yahoo.com

(209)281-0284

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