

Tensidyne: wearable device for sports injury prevention

A wearable devices for in-field, mobile analysis of tendon strength for sports injury recovery and prevention



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Market:

There are 8.6 million sports and recreation-related injuries in the U.S. annually. Two of the most common, ACL tears and Achilles tendon ruptures, occur at 330,000 cases per year and lead to billions in healthcare costs. The global wearable device in sports market is estimated to reach \$102 billion by 2026 with a CAGR of 15.98%

Technology:

The Tensidyne wearable device uses tendon tensiometry to detect changes in tendon tension and correlates that data to gait and limb strength to detect abnormalities.

IP and Stage:

1 patent. Demonstrated use in tracking recovery from sports injury at University of Wisconsin-Madison Athletics, Achilles tendon ruptures at UPenn, development of exosuits and exoskeletons at Harvard, and gait analysis in children with Cerebral Palsy at Gillette Children's

Impact:

The Tensidyne device will be the first to enable highly accurate physiological data for athletes in real-time, while in use in the field and in motion for the most realistic and relevant sports injury recovery, prevention, and performance monitoring.

Ask:

Introduction to potential pro sports teams, elite athletes, and sports medicine doctors

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