

Sprinkler Guard

Adjustable and Modular Protection System for Sprinklers

“Protect. Adjust. Perfect.”

Technology

The Sprinkler Guard is an innovative irrigation sprinkler riser technology designed to overcome the limitations of conventional above-ground sprinklers, which are often prone to mechanical damage, disorientation, and poor aesthetics. Traditional rigid riser pipes not only shorten the lifespan of irrigation systems but also compromise optimal water distribution and disrupt landscape design. This technology introduces a protective and flexible fixture that joins the lateral water supply pipe to the sprinkler head, incorporating a tubular body with an adjustable knob that allows for angle, directional, and height adjustments. The riser can collapse when not in use, protecting the sprinkler from damage while maintaining a neat, uniform appearance that complements landscape aesthetics. By combining durability, adaptability, and design appeal, the Sprinkler Guard provides a cost-effective, efficient, and visually pleasing solution for irrigation systems.

Market need

Traditional sprinkler systems are often limited by fixed angles, rigid installation, and vulnerability to external damage. Landscaping, agriculture, and turf management industries require more adaptable, durable, and cost-efficient solutions that can adjust to varied terrain, be easily retrofitted, and provide precision watering. This technology offers a solution that protects sprinklers from avoidable damage, thereby enhancing the efficiency and lifespan of irrigation systems while creating visually appealing landscapes.



Features

- Angular adjustment (tilting base for uneven terrain).
- Retrofit riser integration (easy installation into existing systems).
- 360° spherical nozzle adjustment (precise water direction).
- Leak-proof sealing and weather-resistant materials (enhanced durability).
- Flexible external conduit system (simplified water routing).
- Telescopic or incremental height adjustment (adaptable spray coverage)



Benefits

- Reduced water wastage through precision targeting.
- Cost-effective retrofitting without major redesigns.
- Greater flexibility for diverse environments (lawns, golf courses, farms).
- Extended product life through modular design and durable materials.
- Licensing opportunities across different user segments.
- Competitive advantage via a multi-patent portfolio.



Industry

Water

Potential application

- Residential landscaping: protects home garden and lawn sprinklers while allowing precise watering and aesthetic integration.
- Golf courses and sports fields: ensure uniform irrigation coverage and prevent damage from maintenance equipment or foot traffic.
- Agriculture and horticulture: durable, adjustable sprinklers for uneven terrain and variable crop layouts.
- Public parks and urban green spaces: protect sprinklers from vandalism and environmental wear while maintaining efficient irrigation.
- Irrigation system retrofitting: easily integrates into existing sprinkler networks to improve longevity and performance.
- Commercial landscaping services: cost-effective solution for maintaining large-scale, adaptable watering systems.

Creator

Prof Hennie Stoffberg

Stage of development

Prototype

Intellectual property

Patent Protection

Desired relationship

Co-development, Investors