

# Firecut: Revolutionizing Wildfire Management with Cryogenic Technology

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Harnessing the Power of Cryogenics to Protect Our Planet

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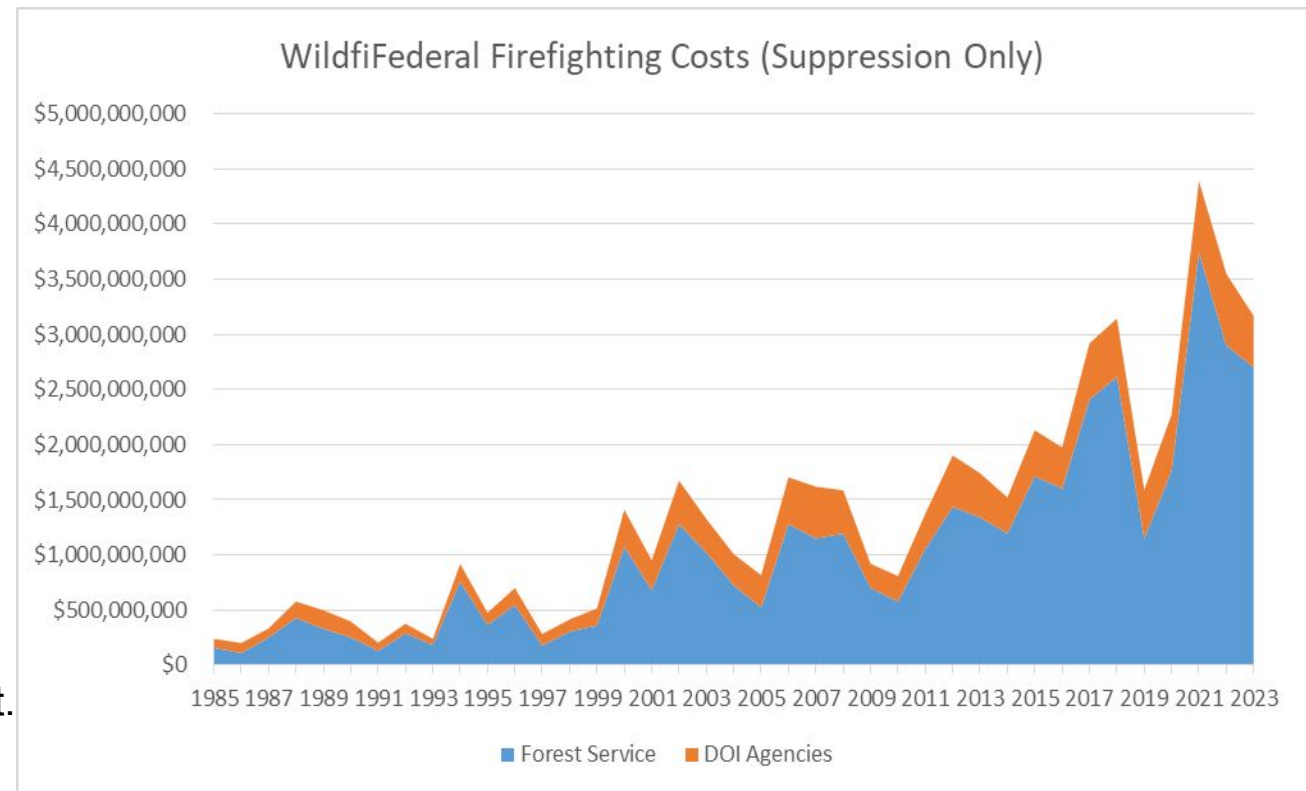
# The Growing Threat of Wildfires

## Recent Incidents: Los Angeles Wildfires

- The Palisades Fire burned nearly 24,000 acres, impacting communities like Topanga and Malibu.
- The Eaton Fire scorched over 14,000 acres, leaving Altadena in devastation.
- Santa Ana winds (up to 100 mph) worsened the fire spread, making firefighting efforts nearly impossible.

## Why Action is Urgent:

- Increasing frequency and intensity of wildfires due to climate change.
- Severe environmental, societal, and economic impact.



Source: <https://www.nifc.gov/fire-information/statistics/suppression-costs>

# FireCut: The Future of Wildfire Suppression with Cryogenic Capsules

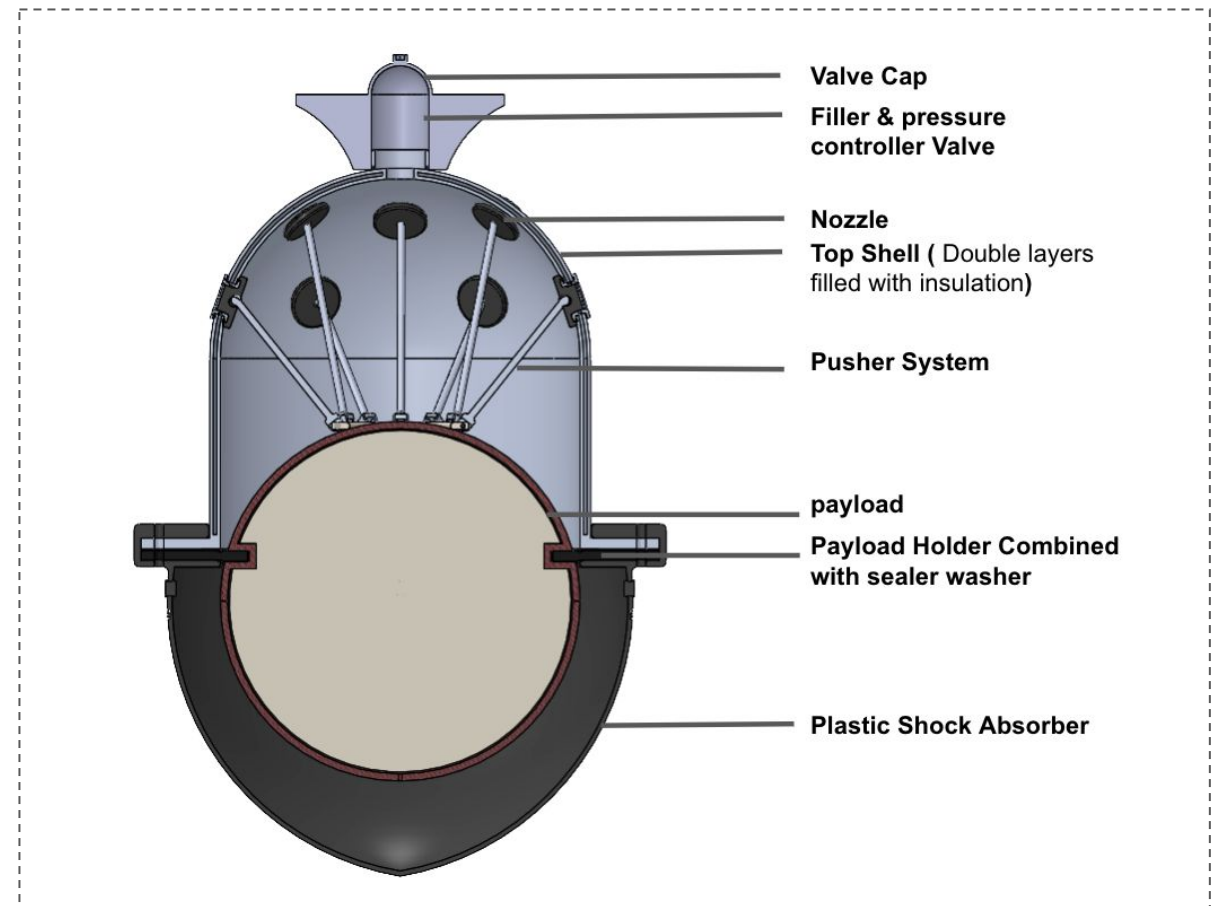
(Patent: [US 12011625](#))

Firecut's cryogenic capsules offer several key advantages over traditional aerial firefighting methods:

- **Ground-Level Activation:** Upon impact, the capsules deploy cryogenic fluids that freeze the base of the fire, effectively extinguishing it from the ground up. This bottom-up approach targets the fire's source more directly than conventional aerial drops.
- **Flexible Deployment Altitude:** The capsule design allows for deployment from various altitudes without the restrictions faced by current aerial methods, which often require low-altitude flights to be effective. This flexibility enhances safety and operational efficiency.

## Patented Technology (US 12011625):

- Groundbreaking approach to wildfire management.
- Offers scalable, flexible deployment.





# Addressing Gaps in Fire Suppression

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## Current Challenges:

- Aerial water/retardant drops often miss core fire areas.
- Nighttime operations are hindered by low visibility and high risk.
- Traditional methods struggle in windy conditions.

## Firecut Solutions:

- Ground-level suppression directly targets fire perimeters.
- Effective in low visibility and high wind conditions.
- Operable during nighttime, providing 24/7 fire management.

# Advantages of Fire Cut

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## **Bottom-Up Suppression:**

- Faster response times and higher efficiency compared to aerial methods.
- Cost-effective with reduced resource wastage.
- Deploys cryogenic agents that extinguish fire directly at its source, freezing everything from the base.

## **Nighttime Operations:**

- Operable when traditional methods are restricted.

## **High-Altitude Deployment:**

- Works effectively in windy, hard-to-reach areas.

## **Immediate Cooling Effect:**

- Slows fire spread instantly, buying critical time for firefighting teams.

# Enhancing Other Wildfire Suppression Methods with Fire Cut

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- **First Response:** Slows fire spread, allowing time for deployment of additional resources.
- **Synergy with Aerial Methods:** Enhances cooling and oxygen displacement when combined.
- **Flexible Deployment:** Ideal for areas inaccessible to ground crews or aerial operations.

# Market Opportunity

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## Critical Need Demonstrated by Los Angeles Wildfires:

- Escalating firefighting costs; Palisades and Eaton fires caused millions in damages.
- Global aerial firefighting market projected to grow from \$4.95 billion in 2022 to \$7.33 billion by 2032.

## Target Customers:

- Governmental agencies (e.g., CalFire, DOI, US Forest Service).
- Private sector (e.g., Lockheed Martin, Global SuperTanker Services).
- International markets with fire-prone regions.



# Go-To-Market Strategy

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## **Engineering Validation Test (EVT) (Duration: 9 months)**

- Material selection and design improvement
- Simulation finalization
- Engineering evaluation and performance testing
- Tolerance and assembly testing

## **Design Validation Test (DVT) (Duration: 8 months)**

- Full functional testing
- Mass production testing
- Final design lock
- Preparation of release documents

## **3. Production Validation Test (PVT) (Duration: 5 months)**

- Reliability testing
- Logistic testing

**Total Time to Market: 22 months**



# Join Us in Revolutionizing Wildfire Management

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Firecut represents a significant advancement in wildfire management, offering a safer, more efficient, and environmentally friendly solution. The devastating impact of the recent Los Angeles wildfires highlights the urgency of adopting cutting-edge solutions like Firecut.

**We are seeking \$5 million in funding for Phase 1 and 2 (combined):**

- Research & Development.
- Prototyping and testing.

**Join Us in Protecting Communities and the Planet:**

- Form strategic partnerships with governmental agencies and private-sector companies.
- Collaborate on pilot projects to showcase Firecut's impact.

# Contact Information

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The Fire Cut Corps' official website: <https://thefirecut.com/>

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