Intelligent Autonomous Fire Suppression System for Residential Use – Seeking Commercial Agreement with Technical Assistance

Summary

Profile type	Company's country	POD reference
Technology offer	**Spain**	**TOES20260213018**

Profile status	Type of partnership	Targeted countries
PUBLISHED	**Commercial agreement with technical assistance**	**• World**

Contact Person	Term of validity	Last update
Enrico FRANZIN	**13 Feb 2026** **13 Feb 2027**	**13 Feb 2026**

General Information

Short summary

The Basque company has developed an intelligent autonomous fire suppression system designed for residential kitchens. By combining advanced detection, automated activation and connected software, the technology enables proactive fire prevention rather than reactive response. The firm is seeking a commercial agreement with technical assistance to scale production and support European market deployment.

Full description

The Basque technology company has developed an intelligent autonomous fire suppression system engineered specifically for residential environments.

Unlike conventional fire protection technologies — typically designed for industrial settings and often constrained by size and installation complexity — the solution has been purposefully engineered to deliver industrial-grade protection within the spatial limitations of real homes.

One of the system's key technological achievements is the successful miniaturisation of active fire suppression capabilities into a compact format that can be seamlessly integrated into everyday residential spaces, such as kitchen extraction hoods or cabinetry. This spatial adaptability removes one of the primary barriers that has historically prevented advanced fire protection from scaling into the residential market.

By combining intelligent detection, autonomous activation and a connected software architecture, the solution continuously analyses risk conditions and acts immediately in high-risk kitchen fire scenarios, helping prevent escalation and significantly reduce property damage.

The integrated hardware–software approach enables monitoring, service management and long-term operational value, while supporting a scalable installed base with recurring revenue potential.

Designed from the outset for industrial scalability, this system addresses a critical gap in residential fire safety, where most systems remain either passive or dependent on human reaction time.

The solution is currently entering its industrialisation and scale-up phase and is seeking a strategic partner for:

– Industrial manufacturing and quality-controlled production
– Optimisation for high-volume deployment
– European distribution and commercial rollout
– Potential long-term strategic collaboration

While the company's immediate focus is the residential sector, the underlying software architecture has been designed with future scalability in mind, enabling potential integration into broader fire protection ecosystems.

This solution also fits into the silver economy, as it promotes the independence of elderly people by providing them with a fire extinguishing system that protects them from cooking incidents.

The company's vision is to transition fire protection from reactive response to intelligent autonomous prevention, starting with the residential market.

Advantages and innovations

– Intelligent risk detection enabling fully autonomous activation
– Industrial-grade fire suppression engineered within a spatially optimised format suitable for real residential environments
– Seamless integration into kitchen infrastructure such as extraction hoods or cabinetry, removing traditional installation barriers
– Real-time system monitoring providing continuous operational visibility
– Immediate remote alerts to connected devices, enabling rapid awareness and response
– Integrated hardware–software architecture supporting service models and recurring revenue
– Engineered for high-volume industrial manufacturing
– Strong alignment with insurance-driven risk reduction strategies
– Designed to support the evolution from reactive fire protection to proactive autonomous prevention

The core innovation lies in successfully combining intelligent detection, autonomous suppression, spatial integration and connected monitoring into a format capable of scaling across the residential market — something historically limited by the size and complexity of traditional fire protection systems.

Technical specification or expertise sought

Stage of development

Already on the market

Sustainable Development goals

• **Goal 17: Partnerships to achieve the Goal**

• **Goal 9: Industry, Innovation and Infrastructure**

• **Goal 11: Sustainable Cities and Communities**

• **Goal 3: Good Health and Well-being**

IPR Status

IPR granted

IPR Notes

The core technology is protected by granted intellectual property covering key system design and functional elements. The product has also undergone certification processes required for its intended market application, reinforcing technical validation and regulatory compliance. Additional proprietary know-how supports the software architecture and integration approach, and the company maintains an active IP strategy as the technology evolves.

Partner Sought

Expected role of the partner

The company is seeking a strategic industrial partner capable of supporting high-quality manufacturing and large-scale production of safety-critical systems.

The partner is expected to contribute advanced manufacturing capabilities, robust quality management processes and experience in producing regulated or certified products.

Beyond production capacity, we are interested in a partner able to support industrial optimisation, supply chain structuring and scalable European deployment.

Commercial strength and access to established distribution channels within the fire safety, building infrastructure or insurance-related ecosystems will be considered a significant advantage.

The company is prioritising long-term strategic collaboration over transactional supplier relationships.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

• **Big company**

• **SME 50 - 249**

Dissemination

Technology keywords

• **03010 - Household Goods & Appliances**

• **10001003 - Fire Safety Technology**

Market keywords

• **08002003 - Process control equipment and systems**

• **03004003 - Other electronics related equipment**

• **02003 - Specialised Turnkey Systems**

• **08002002 - Industrial measurement and sensing equipment**

Targeted countries

• **World**

Sector groups involved