

# FireBot Stovetop Fire Suppression System



## Overview

FireBot is a low-cost device that will automatically activate in case of a fire to properly extinguish a stovetop fire to prevent damage.

## Need

By extinguishing stove top fires, FireBot will prevent damages that cause the loss of 480 lives, 5,540 injuries and \$1.1 billion a year in direct property damage per year. (Source: The National Fire Protection Association, 2016).

**FireBot** effectively puts out stovetop fires, saving lives, reducing injuries, and saving homeowners, renters, apartment building owners, and insurance companies many millions of dollars.

## Solution

Installation of FireBot will stop stovetop fires. Firebot will end losses forever caused by flame, smoke, and water damage from too late sprinkler activation or fire department response. Stovetop fires cause significant, often catastrophic results. Damage is not necessarily limited to one unit, but many, causing displacement of occupants and multiplying repair costs. There are 100 million U.S. kitchens, with implementation; FireBot would cut in half the number of residential fires. A special bonus, FireBot reducing home fires by 50%, Fire Department responses are cut in half saving municipalities another billion in operation expenses and medical claims each year.

## Features

- Fire suppressant is designed to extinguish all stovetop fires -- including grease.
- Low retail cost estimated at \$165 each. With anticipated cost to produce at \$45
- Easy to install
- Delivery device activates and sprays suppressant when temperature reaches 195 degrees F
- Has two temperature probes for redundancy and accuracy.
- Five-year battery life with low battery warning
- Piezo siren to alert fire and activation
- Future modules to wireless module activate gas and electric shunt switch of range plus communications with home automation and alarm systems for 24-hour monitoring and condition alerts.
- Patent Pending Design with the U.S. Patent and Trademark Office

## How It Works

FireBot is simple and elegant in design. FireBot can be installed in multiple brands of range hoods, able to morph in different configurations. When the activation temperature is reached, a circuit board activates a powerful pump to spray fire suppressant thru a specialized nozzles. The suppressant able to cover all four burners will extinguish, even a grease fire quickly and safely. In apartment-condo installations, status can be monitored wirelessly for every FireBot installed.

FireBot is user friendly and can installed and serviced with no special training. Fire suppressant is non-pressurized and non-toxic and biodegradable. Radio signals such as Z-wave, Zigby, and 319.5 megahertz can communicate to shut offs for both gas and electric stoves, communicate to control panels, home automation, 24-hour central stations.

## **Profitability and Company Valuation**

Investors would receive 20% of company for a \$1 million investment, \$250K initially for development, \$750K upon first orders to manufacture (use of funds detailed below). Investment to be paid back on company net profits at accelerated rate. Expected two year sales: 200,000 units @ \$120 profit margin each equals \$24 million in profit. Product sales potential should push company valuation well beyond \$100 million.

## **Use of Funds**

- Any funding would be considered scared and used prudently. Funds would be used as specified in the budget to produce final product ready for sale. Mass production would not begin till we had orders for the first 5,000 units.
- Management: \$40K
- Legal: \$30K
- Specialized OEM Component Development: \$60K
- Testing and Certification (I.E. UL or Intertek Labs) \$70K
- Sales and Operations: \$350K
- Total: \$250K
- \$450K upon first 10,000 orders to manufacture and enable cash flow for company.

## **Other Uses**

Besides residential range hoods, other potential of low cost suppression systems are in RVs, boats, garages, and autos -- anywhere there is high risk of fire.

## **Current Interest**

- Management Companies of Apartments and Condos
- Insurance Companies
- Fire Marshals, Fire Departments, Government Building Codes and Occupancy Permits
- Individuals
- Fire Restoration Companies
- All can save money and protect people from fire

## **Competitive Advantages of FireBot**

- Working Prototype with Patent Pending Design
- Next Competitor "Firestop" uses inefficient explosive charge to spread baking soda over fire. Has no electronics and can't meet UL Code 300A ever. If activated a stovetop fire flame has already done damage, as it requires a fuse to be lighted. Comparable price point

## **Management Team**

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