

Company introduction



TOP ENC CO.,Ltd.

Since its foundation, TOP ENC has been engaged in service businesses such as fire defense facilities management and specialized fire defense facilities construction, aiming to become the best professional company in the field of fire defense.

In addition, we have established a specialized fire defense laboratory in the vulnerable Korean fire defense manufacturing environment, focused on research and development of new technologies and products, commercialized no-panic fire extinguishers equipped with the function of removing safety pins even if they are gripped for the first time in the world, and are currently developing the world's first current-based addressable automatic fire detection system. (CBA System)

As a result of investing in research and development to improve the existing fire and disaster prevention system, the company has grown into a comprehensive fire defense company that has secured a large amount of technology recognized not only in Japan but also in advanced countries such as the United States, Europe.

Company Overview

■ Name : TOP ENC Co.,Ltd

■ CEO : Malsuk Lee

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■ Homepage : http://www.topenc.biz

■ E-Mail : top1190@hanmail.net

Company introduction



Brief Representative's History



CEO

First name: Malsuk Last name: Lee

■ Education

· B.S., M.S., Ph.D. in Architectural Engineering from Kyungpook National University, Korea

■ Qualification

- · Professional Fire Protection Engineer
- · Fire Facilities Manager
- · Master Craftsman Hazardous material
- · Fire Safety Educator
- · Engineer Fire Protection System Electrical
- · Engineer Fire Protection System Mechanical
- Engineer Architecture

■ Career Current

- · TOP ENC CEO
- Member of Local Fire fighting Design Review Committee (Daejeon, Gyeongbuk, Daegu)
- · Vice-president of Korea Hazardous Safety Association

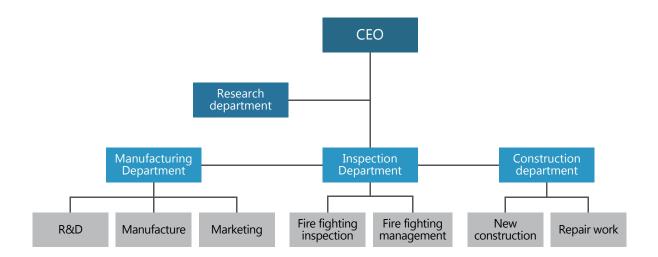
former

- · TOP ENC Architectural Firm Co-Reprensentative Director
- · Adjunct professor of Kyungpook Fire Service Academy
- · Adjunct professor of Gumi University

Company introduction



Company Organization Chart



Company History

- · 2013. 06 Moved in Gumi Business Incubator, Established TOP ENC.
- · 2013. 10 Been inaugurated as Co-Representative Director of fire fighting department of TOP ENC architectural firm.
 - Started fire fighting service(management, inspection, construction, R&D).
- · 2016. 12 Seperated fire fighting department as spin-off from TOP ENC architectural firm.
 - Sustained the service as TOP ENC after alienation.
- · 2017. 06 Established a research dedicated department.
- · 2018. 11 Registerd the factory.
- · 2019. 08 The NO PANIC fire extinguisher Passed the model approval certification of Korea Fire Institute(KFI).
- · 2019. 09 Attracted the investment as 300 million from Enlight Ventures.
- · 2019. 10 Renewed the Certificate of Venture Business.
- · 2020. 01 Renewed the Certificate of Women Owned Business.

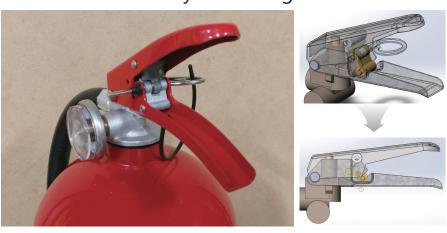


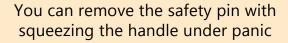
Category

- 01. Manufacturing of Fire fighting appatatus
- **02. Inspection** of Fire fighting facilities
- 03. Management of Fire fighting facilities
- **04. Construction** of Fire fighting facilities
- 05. R&D of Fire fighting



NO-PANIC Safety fire extinguisher







NO-PANIC passed the model approval certification of Korea Fire Institute and Status of registration at foreign patent







► Inspection of fire fighting

works operational function inspection and comprehensive precision inspection prescribed by law.



▲ Fire alarm valve test



▲ Fire detector check



▲ Fire alarm facility inspection



▲ Fire pump operation check



▶ Management of fire fighting

provides maintenance services for overall fire fighting facilities and practice fire fighting etc.



▲ Preparation of a fire fighting plan



▲ Fire extinguisher pressure check



▲ Fire fighting facility maintenance



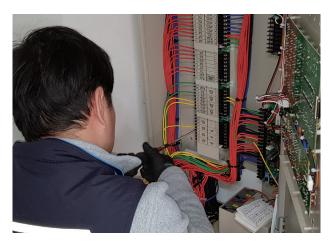
▲ practice fire fighting

▶ Constuction of fire fighting

largely includes electricity part of automatic fire alarm detective system and facility part of fire hydrant.



▲ Fire pump facility construction



▲ Fire fighting electric ent construction



▲ Fire fighting Gas facility construction



▲ Construction of new building fire fighting equipment



► R&D of fire fighting

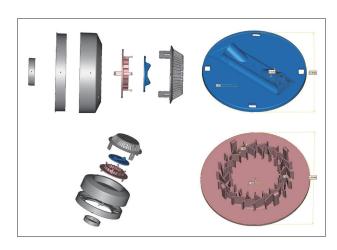
we are always committed to saving the lives and properties of human being with the best techniques developement.



▲ Twin-agent fire extinguisher prototype



▲ NO PANIC fire extinguisher handle prototype



▲ Fire detector prototype



▲ Automatic fire detective system including address basedelectric current

Product description

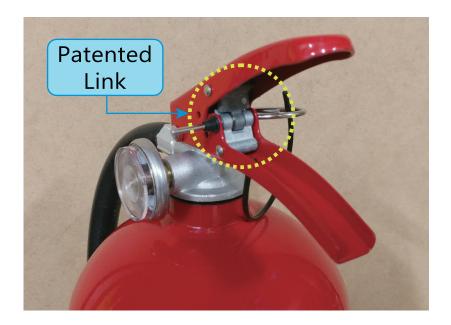


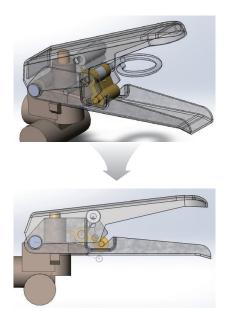


NO PANIC Patent Fire extinguisher - 3.3kg Dry chemical fire extinguisher



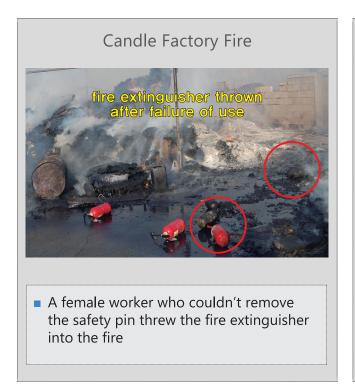
■ NO PANIC Fire extinguisher Patent Technology





You can remove the safety pin with squeezing the handle under panic

■ Failure cases of using Fire extinguisher





■ The first, the best Technique - NO PANIC Fire extinguisher

Test of removing safety pin of general fire extinguisher

Test of removing safety pin of NO PANIC fire extinguisher









■ Test Result

Failed to remove the safety pin even with 12kgf by an adult male

■ Test Result

Succeeded in removing the safety pin only with 2kgf by an adult male

■ We all know The P.A.S.S Method. But...

The P.A.S.S Method for fire extinguisher









We all know The PASS Method. But it is still hard to make it in urgent situation.

The NO-PANIC fire extinguisher is a patented fire extinguisher that can completely improve the phenomenon caused by the safety pin which does not fall off by the pressure you hold the handle with.

It makes you be able to remove the safety pin even in panic.

It clearly has the advantage of being easy to use for everyone, for anytime.

A career in international competition & status of registration at domestic or foreign patent



2016 Malaysia International Invention Competition Silver Award



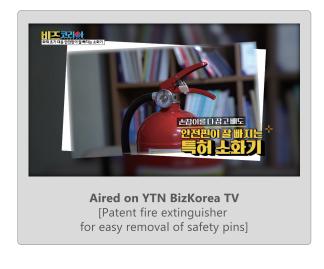
Passed the model approval certification of Korea Fire Institute (KFI)

Status of registration at domestic and foreign patent





Advanced technic of NO PANIC fire extinguisher was introduced through various media







■ NO PANIC Fire extinguisher specification



Specification

- Product name: NO PANIC Fire extinguisher

- Dry chemical fire extinguisher

- Multipurpose protection: Fights Class A, B, and C fires

- Agent type: NH₄ H₂ PO₄ 80%

Agent weight : 3.3kg(7.3lb)Item weight : 5.2kg(11.5lb)

- Material: Metal etc.

- Product Dimensions : 136 Ø x 446(mm)

- Discharge time : 10(s)

Discharge range : 4~6(m)Operating pressure : 0.9 MPa

■ Multipurpose protection - Fights Class A, B, and C fires





Class A fire

Wood, paper, textiles, and other ordinary combustibles





Class B fire

Flammable liquids, oils, solvents, paints, grease, etc.





Class C fire

Electrical: Live or enegized electric wires or equipment.



Other Development

Automatic fire detective system including address based electric current

A system can determine an address for each detector by giving different resistance and current values to in two wires.

We are always committed to saving the lives and properties of human being with the best techniques



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