

Notice of Decision to Grant a Patent



Notice of Application Number



Patent Certificate

PRODUCT DEVELOPMENT & CERTIFICATION STATUS

Patent	Patent related to the prevention of fire spread registered in May 2026
Test Criteria	Product reliability is to be evaluated based on heat-resistance testing of the specified materials and internal smoke-pressure testing
Certification Plan	Testing and certification planned through the Korea Fire Industry Technology Institute (KFI)
Confidential Information	Detailed product structure and performance specifications are proprietary and confidential

MAIN APPLICATIONS

Mobile Phone Batteries | Electric Scooter Batteries | Electric Bicycle Batteries | Electric Motorcycle Batteries

WEBSITE QR

주식회사 지텍

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Patented Technology Designed to Help Prevent the Spread of Battery Fires

BATTERY FIRE CONTAINMENT STORAGE CASE



Core Structure

Designed so that flames are extinguished inside the case while only smoke is discharged through the designated outlet

Heat Resistance & Locking

Uses materials designed for temperatures of 700 - 1,000°C and incorporates a secure locking mechanism.

Intellectual Property

A patent related to the prevention of fire spread was registered in May 2026; GTECH holds the patent certificate.

주식회사 지텍

PRODUCT DESCRIPTION

Product Purpose, Structure, Operating Method, and Safety Information

1 Product Purpose and Operating Principle

Electric batteries may present fire and explosion risks when abnormal conditions occur due to impact, high temperatures, overcharging, or other causes. This product is intended to reduce the risk of fire spreading by storing the battery in a separate protective case. In the assumed operating concept, if thermal runaway or an explosion occurs, the heat-resistant enclosure and internal flame barrier contain the flames. A multi-stage exhaust structure then blocks flames and high-temperature particles while releasing smoke and pressure to the outside in a controlled manner.

2 Key Features

Fire-Spread Containment
Designed to extinguish flames inside the case and reduce the risk of fire spreading outside

Heat-Resistant Materials
Designed around materials intended for a temperature range of 700 - 1,000°C; the main body uses PPS material and brass film for heat resistance

Smoke Exhaust Structure
Smoke generated inside the case is discharged through a designated exhaust structure

Locking Mechanism
A locking structure designed to help prevent the case from opening under internal pressure during an incident

3 Basic Instructions for Use

Inspect the Product
Check the enclosure, internal panel, lock, and exhaust section for damage

Insert the Battery
Place the correct battery securely inside the appropriate model

Close the Cover
Confirm that the internal panel and cover are correctly aligned and closed

Lock and Store
Secure the locking mechanism and store away from heat, moisture, and impact

PRODUCT SPECIFICATIONS

Model Specifications and Standard Components

1 Common Specifications

Product Name	Battery Fire Containment Storage Case	**Design Heat-Resistance Range**	Designed for momentary peak temperatures of 700 - 1,000°C
Purpose / Operation	Helps contain the spread of battery fires / blocks flames and releases smoke and pressure in stages	**Locking Method**	Compression latch
Enclosure Material	PPS material	**Standard Components**	Main body, internal flame barrier, exhaust filter, heat-resistant base pad, and user manual
Internal / Exhaust Materials	**PPS material and brass film**	**Color / Manufacturer**	Olive green / Manufactured by GTECH Co., Ltd.

2 Model Specifications and Pricing

Model	Application	External Dimensions	Weight	Components	Retail Price
GT-PB	Mobile phone battery	260×180×120 mm	300g	Main body/internal panel	KRW 30,000
GT-KB	Electric scooter battery	To be determined	To be determined	Main body/internal panel	TBD
GT-EB	Electric bicycle battery	To be determined	To be determined	Main body/internal panel	TBD
GT-MB	Electric motorcycle battery	To be determined	To be determined	Main body/internal panel	TBD

※ Shipping charges are not included.
※ Actual external dimensions and weight may change depending on battery specifications, internal insulation structure, molds, injection molding, and final mass-production requirements.

PRODUCT GUIDE

Prototype Photographs and Representative Design Drawings

1 Prototype Photographs


Enclosure and Internal Components

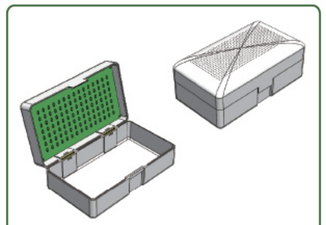

Completed Exterior Components

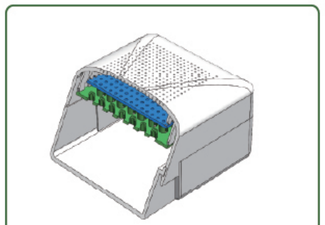

Internal Components Installed

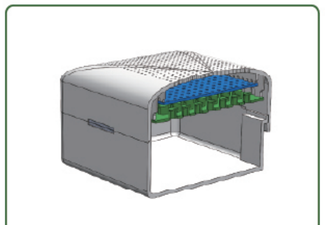

Enclosure and Internal Panel Components

2 Representative Design Drawings

Detailed drawings are proprietary and confidential.


Assembly Drawing


Cross-Section Drawing 1


Cross-Section Drawing 2

SAFETY AND STORAGE PRECAUTIONS

Product Purpose, Structure, Operating Method, and Safety Information

Use the Correct Model
Use a model appropriate for the battery. Do not use the product if the enclosure, internal panel, hinge, or locking mechanism is damaged.

Regular Inspection and Performance Criteria
Inspect for contamination, deformation, blockage, and proper locking. Refer to the quality assurance documentation for applicable performance criteria.