Inquiry for OEM Sample Production and Manufacturing Cooperation for MaZip PC AI Keyboard

Dear Sir or Madam,

I hope this email finds you well.

My name is Joonghak Kim, CEO of MaZip Co., Ltd., Republic of Korea.

MaZip Co., Ltd. is a technology portfolio company developing patent-based product structures in various fields, including the Pants Division, Magnetic Buoyancy Division, Optical Division, Medical Device Division, AI Light-Video Division, PC Keyboard Division, Mobile AI APP, Mobile SAFE APP, MAAPCS Document Verification Platform, and Necta Division.

The estimated technology value of the input hardware patent related to the MaZip PC AI Keyboard is approximately KRW 1.7 trillion.

We are contacting your company to inquire about the possibility of OEM or ODM sample production and manufacturing cooperation for our patent-pending product, the MaZip PC AI Keyboard.

The MaZip PC AI Keyboard is a new AI input hardware product that combines the physical keyboard structure of a conventional computer keyboard with a separate AI function key row at the bottom. The product separates ordinary character input, editing keys, numeric keypad,

AI function keys, and execution key, while maintaining the usability of a conventional keyboard. It integrates functions such as AI calling, sentence generation, sentence improvement, translation, voice-to-text conversion, call recording, note-taking, execution, and user-defined commands.

This product is not merely a general keyboard. It is a patent-based AI input hardware platform designed so that AI functions operate only when the user intentionally selects an AI function key or execution key.

Detailed company introduction materials and product description materials are attached.

We would like to ask whether your company can review the following matters.

1. Whether OEM manufacturing of the MaZip PC AI Keyboard is possible
2. Expected sample production period, estimated sample cost, and minimum order quantity
3. Possible cooperation structure for future mass production

We would appreciate your review and reply.

Thank you very much.

Attachments

1. Company Introduction Materials
2. MaZip PC AI Keyboard Materials

May 31, 2026

MaZip Co., Ltd.

Joonghak Kim

CEO

Email: ceo@maapcs.net

Mobile: +82-10-5324-3467

Website: www.maapcs.net

Republic of Korea

Black Glass Theme

MAZIP COMPANY

Company

A technology portfolio group for pants, magnetic buoyancy, optics, medical devices, and AI light-video systems.

MaZip is organized around a patent-based business structure consisting of the Pants Division, Magnetic Buoyancy Division, Optical Division, Medical Device Division, AI Light-Video Division, PC Keyboard Division, Mobile AI APP, Mobile SAFE APP, MAAPCS Document Verification Platform, and MAAPCS Rehabilitation and Bankruptcy Verification Platform. MaZip also operates an OEM/ODM cooperation policy across its product groups. The Necta Division is organized around women’s Necta No.1 and men’s Necta No.11 as neck-worn smart fashion products.

MaZip Charter of Rights
Logo Symbolism
Brand Identity
Brand Story
Patent Portfolio Summary
Project Family

MaZip Charter of Rights

We reject structures that provoke shame, and we set dignity-protecting design as our standard. MaZip presents structural humanism as an ethical standard for fashion and

everyday technology.

Article 1. Right to Human Dignity

Every wearer has the right to bodily dignity and freedom from shame. Clothing should not expose the front contour, and the fashion industry should not violate this boundary of dignity.

Article 2. Right to Structural Protection

Clothing structures must prioritize human protection before aesthetic expression. The combined MaZip Unit and overlap structure are designed to block central exposure and protect the dignity of the wearer.

Article 3. Right to Emotional Value

Human beings are emotional beings, and clothing should become a structure that conveys warmth and consideration. The Emo Pocket expresses family, happiness, and connection through structure.

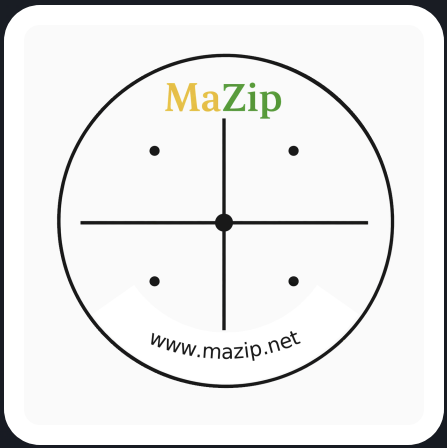
Article 4. Responsibility of Industry

Manufacturing systems that repeatedly produce conventional zipper structures while ignoring the front contour may infringe human dignity, and therefore require a new structural alternative.

Article 5. Civilizational Duty

The next generation should wear clothing within structures that do not harm dignity. MaZip proposes a new closure structure beyond the limitations of zippers.

Logo Symbolism



The official **MaZip** logo is a representative mark combining the MaZip name, a central axis, and four points within a circular structure.

- Circular border: represents an integrated brand structure that connects the product groups and technology groups.
- Central axis: represents balanced structural analysis and scalability across the front, right, rear, left, top, and bottom views.
- Four points: represent each axis being connected to one center.

Brand Identity

Lifestyle

Everyday Lifestyle Brand

MaZip begins with products that people can directly experience in daily life, such as pants, insoles, pillows, cushions, and mats.

Structure

Structure-Centered Technology

MaZip focuses on the structural principles behind visible products, including closure structures, magnetic buoyancy structures, optical paths, and medical device mechanisms.

Global

Global Scalability

MaZip promotes domestic and international expansion by connecting the official homepage, patents, samples, manufacturing cooperation, and licensing policies.

Brand Story

MaZip is a technology portfolio group for pants, magnetic buoyancy, optics, medical devices, and AI light-video systems.

The zipper is gone. Now it is the MaZip Unit.

MaZip goes beyond zippers and magnets, completing zipperless, magnetless, symmetrical, and two-tone structures, while designing happiness for the person behind through emotional pockets.

MaZip proposes global OEM/ODM cooperation and licensing structures for its major product groups.

MaZip Patent Portfolio (Estimated Patent Valuation: Approximately KRW 24.6152 Trillion)

No.	Patent Field	Application No.	Invention Title

Patent 1	Judgment Structure	10-2025-0167XXX → 10-2025-0186XXX → 10-2025-0192XXX → 10-2025-0198XXX	AI-Based Judgment Method and System Including Automatic Adjustment and Evolution of Judgment Structure	A judgment-struct structural corresp and judgment ma
Patent 2	Vision Structure	10-2026-0058XXX	Multidirectional Vision Acquisition and Rear-View Reconstruction System Based on Multi-Surface Optical Paths	A vision expansio simultaneously ac side information v view.
Patent 3	AI APP	10-2026-0061XXX	AI-Based App Keyboard System and Control Method Thereof	A mobile keyboar in which AI opera command event c
Patent 4	SAFE APP	10-2025-0027XXX	Portable Telephone Having Voice-Based Call Safety Detection and Emergency Connection Functions, and Operation Method Thereof	A SAFE APP tech normal voice prof a call to detect ab execute user war alerts, emergency safety functions.
Patent 5	Input Hardware	10-2026-0079XXX	Touch-Based Input System and Control Method	A technology in w multiple comman input signals base pressure.
Patent 6	Execution Control Structure	10-2026-0062XXX	AI Intervention Execution Control System and Method Thereof	A user-command- technology in whi called and its ope
Patent 7	Transmission Imaging Structure	10-2026-0084XXX	AI-Based Vertically Moving Radiation Image Acquisition System	An image reconst controls irradiatio viewpoint, and ch U-shaped open g
Patent 8	Driving Structure	10-2026-0075XXX	Pattern Output Device Combining Optical Fibers and LED Pixels	A technology that brightness and co movement, and p

Patent 9	Fly Closure Structure	10-2025-0093XXX → 10-2025-0093XXX → 10-2025-0123XXX → 10-2025-0135XXX	Bottom Wear Fly Closure Structure	A closure structur bottom wear, repl conventional zipp based closure str
Patent 10	Magnetic Buoyancy Cushioning Structure	10-2025-0145XXX → 10-2025-0147XXX	Magnetic Buoyancy Structure and Cushioning Product Using the Same	A structure that us or a magnetic buc impact, and cushi structure.
Patent 11	Zipperless Pants Structure	10-2025-0154XXX	Fly-Line Symmetrical Zipperless Pants and Manufacturing Structure Thereof	A zipperless pant line symmetrically appearance and zipper.
Patent 12	Necta Smart Neckwear	10-2026-0095XXX	Necta Smart Neckwear Including a Functional Module Unit	A neck-worn sma combines a neck module unit, and wearable structur charging, wireless app-linked contro check functions th the Necta body ar

Project Family

The project family below is organized based on the business divisions and separate project structure of the main index. MaZip distinguishes its product divisions from independent platform businesses, and OEM/ODM is indicated as a manufacturing cooperation policy commonly applied to all product groups rather than as a separate division.

MaZip Divisions and OEM/ODM Policy

Category	Division Label	One-Line Description
Company	Company	The representative company page introducing MaZip's techno patent-based business structure, and OEM/ODM expansion s
Pants Division	Pants Division	A division centered on zipper-alternative closure structures ar pockets, including MaZip Closer, MaZip Fly, and emotional pc
Magnetic Buoyancy Division	Magnetic Buoyancy Division	A product group for magnetic buoyancy support and cushioni insoles, pillows, cushions, mats, and mall products.
Optical Division	Optical Division	A business division for multidirectional visual information acqu technology based on rear cameras and multi-surface optical p
Medical Device Division	Medical Device Division	A medical device development division based on technical pri structure, application fields, and patent structure.
AI Light-Video Division	AI Light-Video Division	An aiLight-based video project supporting AI video production composition, installation-type video, certification structure, an commercialization of video content.
PC Keyboard Division	PC Keyboard Division	A PC AI keyboard system that combines AI function keys and key with a physical keyboard structure to expand input, select and execution functions.
Necta Division	Necta Division	A neck-worn smart tie and Necta product group centered on v flagship Necta No.1 and men's flagship Necta No.11.
OEM/ODM Policy	OEM/ODM Policy	A manufacturing cooperation policy commonly applied to all p for materials, structures, production methods, quality standard cooperation procedures; it is not a separate division.

Separate Project Family

Category	Division Label	One-Line Description
Mobile AI APP	Mobile AI APP	A mobile AI input application that provides AI fu execution key, input assistance, sentence proc restoration functions in a mobile environment.
Mobile SAFE APP	Mobile SAFE APP	A voice-based call safety application that comp profiles and provides user warnings and emerg connection functions.
MAAPCS Document Verification Platform	MAAPCS Document Verification Platform	A document verification platform that aligns do case structures through AI alignment and serv values, supporting multilingual verification, cal verification certificate issuance, and document

Category	Division Label	One-Line Description
MAAPCS Rehabilitation and Bankruptcy Verification Platform	MAAPCS Rehabilitation and Bankruptcy Verification Platform	A dedicated rehabilitation and bankruptcy verif for verifying application structures, debt, asset structures, calculation structures, and docume linkage.

Black Glass Theme

PC AI KEYBOARD EXPANSION

MaZip PC AI Keyboard

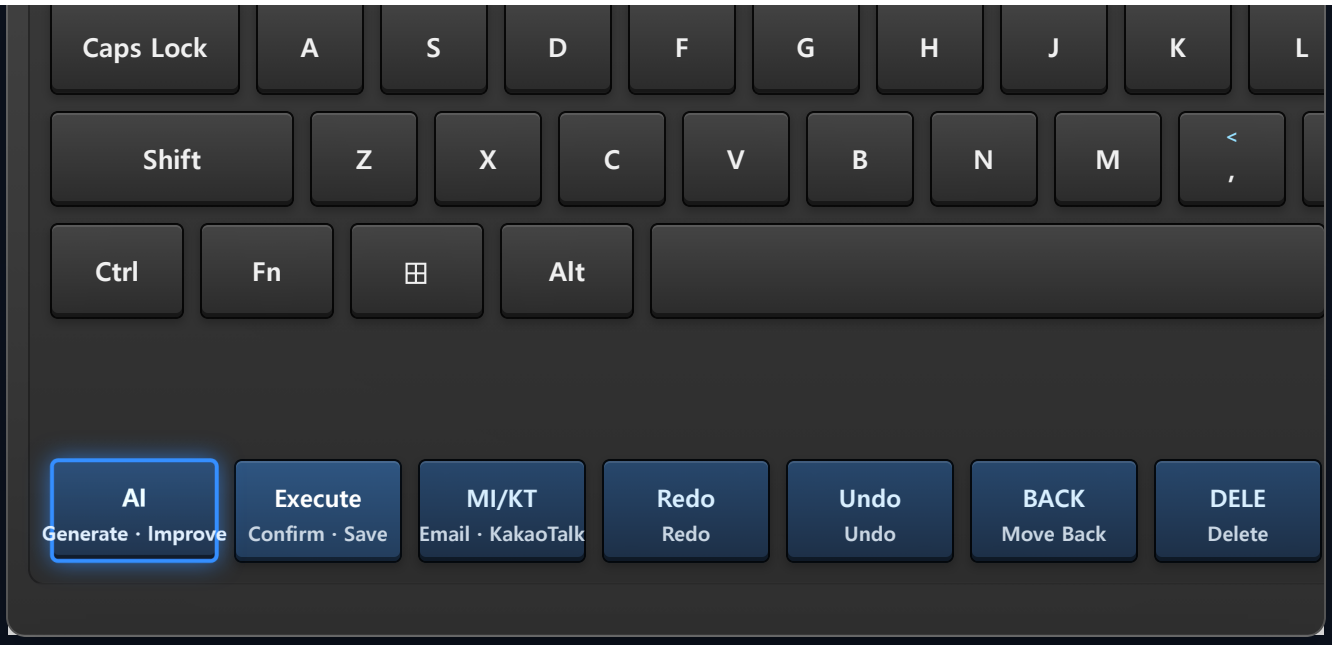
Platform goal: Bringing happiness to people and peace to humanity. (Patent Application No.: 10-2025-0198535 and four others)

By separating the basic character keyboard, editing key block, right-side numeric keypad, and lower AI function row, this system preserves the physical usability of a real computer keyboard while combining AI calling, sentence generation, translation, recording, and execution functions.

Keyboard Structure | OEM Structure | Expansion Technology | Application Fields

PC AI Keyboard Screen

The character keyboard, editing key block, right-side Arabic numeric keypad, and AI function row are arranged separately to preserve existing computer keyboard input habits while expanding AI functions.



KEY ACTION PREVIEW

AI

A core function key that calls AI or improves and expands the sentence being written.

Current State

A sentence, word, or request sentence is ready in the input field.

Short Press

Operates as an AI call or a basic sentence generation command.

Long Press

Expands the current sentence into a more natural and complete sentence.

Execution Result

The generated or improved sentence is displayed in the input field.

Sentence input → Select AI → Generate or improve → Confirm with Execute key

Keyboard Configuration

1. Keyboard Material Configuration

To secure input accuracy, low noise, durability, and manufacturing economy, the input board is configured as a laminated structure.

Upper Input Layer	This is the part directly touched by the user's fingers. It is formed from elastic synthetic resin such as silicone, TPU, or TPE, and each key position has a convex dome-shaped elastic structure.
Touch Sensor Layer	This layer detects the user's touch position and signal changes caused by contact. When the dome is pressed, the distance from the sensor layer and the contact area change, generating electrical signal variation.
Optional Pressure Sensor Layer	It may be omitted in low-cost models and added in premium models. When added, touch position, contact duration, and input pressure can be evaluated together.
Circuit Layer	It is composed of a PCB or FPCB. It collects signals from the touch sensor layer or pressure sensor layer and transmits them to the controller to determine whether the input is valid.
Support Layer	This base layer maintains the strength and flatness of the entire keyboard. Aluminum, SUS, or reinforced plastic may be used.

External Housing	ABS, PC, or aluminum may be selected depending on the product grade. The surface may be processed by matte coating, UV printing, laser engraving, or silk-screen printing.

2. Input Judgment Configuration

Rather than recognizing input by simple contact alone, the system applies an input judgment structure that distinguishes intentional user input from unintended contact.

Basic Input Judgment	When the user presses a key, the dome of the upper input layer deforms. The resulting electrical signal variation is compared with a reference value, and input is judged valid only when it meets or exceeds the reference value.
Mistouch Prevention	Glancing contact, micro-contact, or light finger touches are treated as invalid input when they fall below the reference value, reducing mistouches common in flat touch methods.
Short Press	Each function key performs a single-touch input as its basic operation. For example, the AI key may be used for basic generation, and the TRANS key may be used for input language switching.
Long Press	A sustained input for a predetermined time or longer is classified as a separate function. For example, the AI key may be used for sentence improvement or expansion, and the TRANS key may be used for full-sentence translation.
User-Adaptive Sensitivity	The reference value is not fixed. It may be adjusted to the user's input pattern based on signal variation, rate of change, contact duration, and input success.

AI Function Key Separation	The AI key, Execute key, translation key, voice input key, record key, and user custom key are judged as function inputs separate from general character input. AI functions operate only when the user selects an AI execution key.

Dome Deformation

Signal Variation Occurs

Reference Value Comparison

Valid Input Judgment

Execute AI or Basic Input

Expansion Technology Structure

The PC AI keyboard may be expanded into a physical keyboard, web input tool, PC program, browser extension, and related forms.

Input Structure

- General character input is processed in the same way as a conventional computer keyboard.
- AI function keys are classified as separate command inputs.
- The Execute key is used as a finalizing key to confirm generated, improved, translated, or recorded results.
- Korean and 16-language switching is handled through a separate language-switching key.

AI Linkage Structure

- The AI key is linked to sentence generation, sentence improvement, and long-sentence expansion functions.
- The TRANS key is linked to sentence translation or input language switching.
- The STT, CALL, and NOTE keys may be linked to voice, call, and recording functions.
- The USER key calls frequently used sentences or functions designated by the user.

Application Fields

Business Document Writing

Sentence generation and improvement can be performed quickly for emails, reports, contract drafts, meeting minutes, notices, and related documents.

Multilingual Input Environment

Korean and 16-language input, translation, and switching functions can be connected at the keyboard level.

PC Productization

It can be expanded step by step into a physical keyboard, web keyboard, browser extension, and dedicated PC program.