Inquiry for OEM Sample Production and Manufacturing Cooperation for Smart Necta Necta No.1

Dear Sir or Madam,

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

MaZip 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.

We are contacting your company regarding the OEM or ODM sample production and manufacturing cooperation for our patent-pending product, Smart Necta.

Necta is a new neck-wearable smart fashion product that replaces the traditional necktie knot structure with a functional module unit. It combines a neck connection part, a functional module unit, and a Necta body into one wearable structure. The product may be developed in various forms, such as a Necta-type tie, necklace-type, choker-type, or ribbon-type product. We plan to develop the product line mainly around Necta No.1, the representative women's model, and Necta No.11, the representative men's model.

Our Smart Necta-related patent application has already been filed. According to our internal company materials, the estimated technology value is approximately KRW 45.3 billion. The patent relates to a neck-wearable smart fashion technology that combines a neck connection part, a functional module unit, and a Necta body, and provides lighting, charging, wireless communication, sensor, app-linked control, AI control, and location-checking functions through the optical fiber structure inside the Necta body and the functional module unit.

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

1. Whether OEM or ODM manufacturing of the Necta neck-wearable fashion product is possible
2. Whether the Necta body can be manufactured as a double-layer textile structure with optical fibers or a thin lighting structure inserted inside
3. Whether a knot-shaped housing space or insertion structure can be manufactured at the traditional necktie knot position to accommodate the functional module unit
4. Whether the neck connection part, length adjustment part, stable wearing structure, transparent connection part, or fashion band structure can be manufactured
5. Whether first sample production is possible, including the expected sample production period, estimated sample cost, and minimum order quantity
6. Whether cooperation is possible under a structure where a separate electronic component manufacturer produces the functional module unit,

while your company handles the textile, sewing, outer shape, and wearable structure

7. The possible cooperation structure for mass production

We intend to develop this product not merely as a necktie, but as a patent-based smart neckwear product family. Potential applications include performances, K-POP, fashion events, corporate events, hotels, airlines, protocol and ceremonial use, and location-checking accessories for children and elderly people.

At the initial stage, we would like to produce the women's representative model, Necta No.1, as the first sample. After that, we plan to expand the product line to the men's representative model, Necta No.11, and various other neck-wearable product types.

If your company is able to review OEM or ODM manufacturing cooperation for this product, we would appreciate your reply. Upon your response, we can provide additional product images, structural descriptions, patent summaries, and sample production requirements. If necessary, we can provide detailed materials after signing a non-disclosure agreement.

We would appreciate it if you could let us know your manufacturing scope, sample production availability, estimated production period, estimated sample cost, minimum order quantity, technical opinion on textile, sewing, and housing insertion structure, and possible cooperation method for mass production.

Thank you very much.

Attachments

1. Company Introduction Materials
2. Necta-Related Materials

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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.

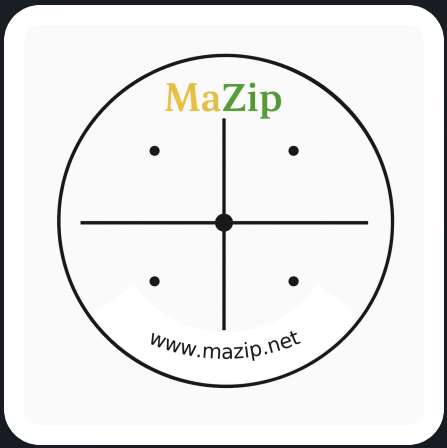
Article 4. Responsibility of Industry

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 a

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 productior 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

NECTA DIVISION

Necta Division

Necta No.1 and Necta No.11 Wearable Neck-Type Necta

The Necta Division develops a wearable neck-type product family by combining a neck connector, a functional module, a Necta body and an optical-fiber structure. The product may be configured as a tie-type, necklace-type or choker-type wearable device. It integrates lighting, length adjustment, charging, wireless communication, audio output, voice input, AI control, location checking and emergency alert functions into a single Necta product structure.

Design Structure | Patent-Based Structure | Functional Module | Earbuds and Hearing Burden | Operation Flow | Application Fields

Knotless Wearable Neck-Type Necta

This division focuses on a product family that replaces the knot structure of a conventional tie with a functional module, while using a transparent connector or a neck connector to implement wearability, lighting, audio functions and AI-linked control at the same time.

The Necta body is formed as a double-layer textile structure, and the optical fiber is arranged between the inner fabric and the outer fabric. Light emitted from the optical fiber is softly displayed outward through woven gaps, light-transmitting portions, cut portions or scattering portions of the fabric.

Fast wearing through a knotless wearing structure and a detachable coupling structure

Premium fashion expression and stage performance effects using optical-fiber lighting patterns

A functional module linked with an app, music, voice input and output, AI, sensors and location information

Voice guidance and AI responses may be provided through a wearable neck-type speaker and microphone structure, reducing the need to insert earbuds into the ears

A product family expandable into tie-type, necklace-type and choker-type wearables

Design Structure

Wearable Neck-Type Necta

The overall structure is organized around the neck connector, functional module, Necta body and optical-fiber unit, and the configuration that converts into a tie-type form through length adjustment is illustrated.

New-Design Necta

This is a product visualization including a transparent connector, functional module, length-adjusting slide, optical-fiber lighting pattern, audio unit, charging unit and app-control structure.

Patent-Based Structure

- **Patent Title**

Necta Including a Functional Module

This is a neck-worn Necta product including a neck connector, a functional module and a Necta body. The structure can perform both a lighting function through optical fibers inside the Necta body and an audio function through the functional module.

Convertible

Convertible Wearing Form

The product family can be converted into a tie-type, necklace-type or choker-type configuration according to the structure of the neck connector and length adjustment.

Textile Light

Optical-Fiber Lighting Inside Fabric

Instead of directly exposing LEDs on the outside, the product forms a soft lighting effect using optical fibers inside the fabric and woven gaps, light-transmitting portions, cut portions or scattering portions of the outer fabric.

Audio Interface

Speaker and Microphone Audio Unit

The functional module includes a speaker unit and a microphone unit, enabling voice guidance, call audio, notification sounds, music or AI response audio to be output without wearing earbuds, while receiving the wearer's voice input.

Category	Configuration	Application in the Division
Neck Connector	Single-line, double-line, multi-line, band, chain or ribbon structure	Expands into transparent conne band, necklace-type chain and r Necta product lines.

Category	Configuration	Application in the Division
Functional Module	Length adjuster, lighting unit, battery, control board and optical-fiber connector	Configured as the core housing the knot position, concentrating control, lighting, audio and sens functions.
Extended Functions	Charging unit, wireless communication unit, audio unit, sensor unit, app-linked control unit, AI control unit and location-information receiver	Linked with a smartphone app, guidance, call audio, AI respons synchronization, location check prevention, separation alerts an emergency alerts.
Necta Body	General fabric unit, double-layer fabric unit and light-emitting fabric unit	Maintains a thin and soft textile arranging optical fibers inside th preserve a premium fashion app
Lighting Display	Woven gaps, light-transmitting portions, cut portions and scattering portions	Uses the surface texture of the fa light scattering to reduce the im an electronic device and strengt identity as a fashion product.

Functional Module Structure

Lighting

Lighting Unit and Optical-Fiber Connector

Light generated by an LED or a compact light source is transmitted through the optical-fiber connector to the optical fibers arranged inside the Necta body.

Control

Control Board and App Linkage

The app controls power on and off, brightness, color, blinking speed, lighting patterns, group synchronization, voice output and music-linked operation.

Audio

Audio Unit, Speaker Unit and Microphone Unit

The audio unit includes a speaker unit and a microphone unit. The speaker unit outputs voice guidance, call audio, notification sounds, music or AI response audio, while the microphone unit receives the wearer’s voice or surrounding sounds and transmits them to the control board, wireless communication unit or AI control unit.

Safety

Location Checking and Emergency Alerts

Using GPS, BLE, UWB, Wi-Fi or smartphone-linked location information, the product may perform loss prevention, separation alerts and emergency alert functions.

Operation Flow

1. Wearing

The neck connector is arranged around the neck, and the functional module is aligned at the front center position.

2. Length Adjustment

The neck connector or the length adjuster is adjusted to fit the product as a tie-type, necklace-type or choker-type wearable.

3. Light Transmission

Light from the lighting unit is transmitted through the optical-fiber connector to the optical fibers inside the Necta body.

4. Voice Input and Output

The speaker unit outputs voice guidance, call audio, notification sounds or AI response audio, and the microphone unit receives the wearer’s voice or surrounding sounds.

5. AI and Protection Functions

The AI control unit and location-information receiver perform lighting-pattern control, voice guidance, location checking, loss prevention, separation alerts or emergency alert functions.

Earbud Use and Hearing Burden

Hearing Care

Burden of Long-Term Earbud Use

Earbuds deliver sound directly into or very close to the ear. When used for a long time at a high volume, they may increase auditory fatigue and the risk of noise-induced hearing damage. In noisy environments, users tend to raise the volume, making volume and listening-time management important.

Safe Listening

Safe Listening Guidelines

Personal audio devices should preferably be used at a lower volume and for shorter listening sessions rather than near maximum volume. A practical guideline is to keep the volume at or below about 60%, take regular breaks after a period of use, and avoid excessive volume increases in noisy surroundings.

Necta Advantage

Necta’s Differentiation

Necta does not rely on an ear-inserted earbud structure. Instead, a speaker unit and a microphone unit are arranged in a wearable neck-type functional module. This allows voice guidance, call audio, notification sounds or AI response audio to be provided without blocking the ear canal.

Application Fields

K-Pop and Stage Costumes

The product can be used as a performance Necta linked with stage lighting, music and group synchronization.

Street Fashion and Events

The product can be used as a smart accessory for personal expression, festivals, exhibitions, corporate events, hotels, airlines and protocol services.

Protection for Children and Older Adults

The product can be expanded into a protective Necta combining location checking, separation alerts, loss prevention, voice guidance and emergency alerts.