

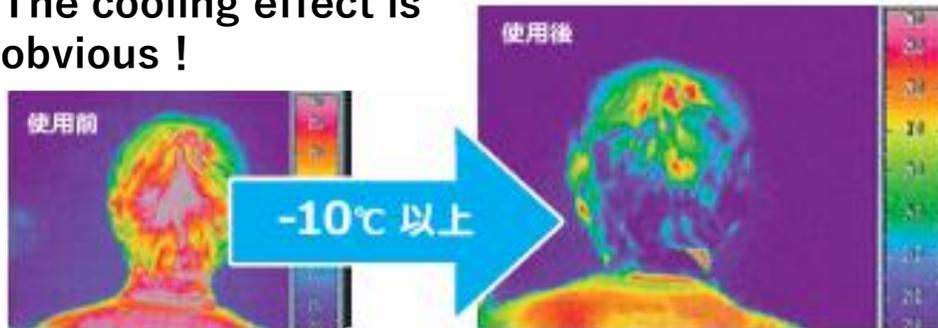
**Title ; Seeking U.S. Distributors
or Patent Licensees.**

Proposal: Adding "Patented Cooling Technology Headwear" to Your Product Line for Heatstroke Prevention and Health Management.



Revolutionary
Technology: 2-3 hours
of cooling with just
50ml of water!

The cooling effect is
obvious !



It's colder than -10°C (18° F)!

coolbit®



The cooling function to prevent heatstroke
coolbit® Water-Injected Pocket Cap

Patented Technology in Japan & US
JP Patent .JP7518321 US 2026/0020633A!

KOBAYA Co., Ltd. (Nichiyo Hatsumeï Gallery)
Toyohiro Kobayashi, CEO

1. The U.S. Market Problem (The "Pain Point")

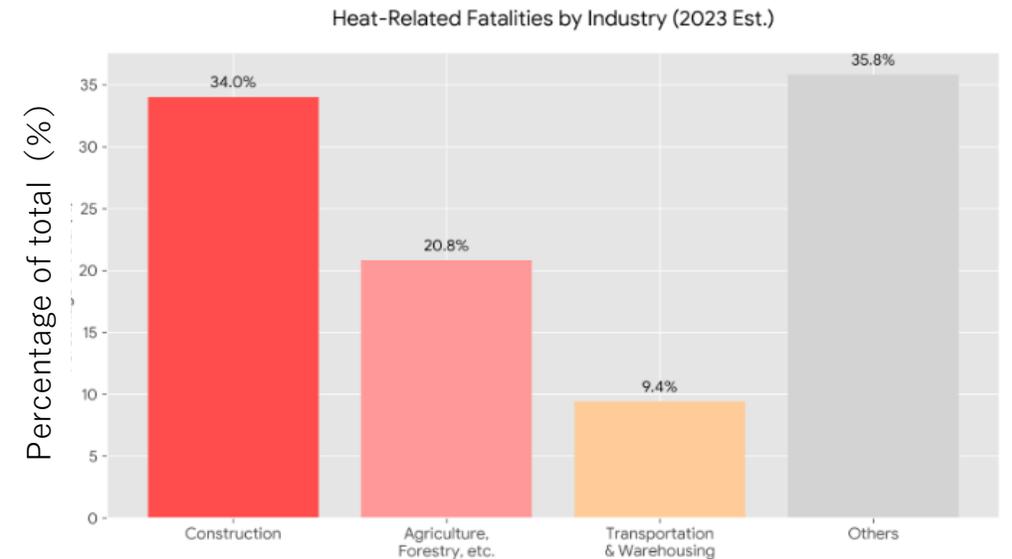
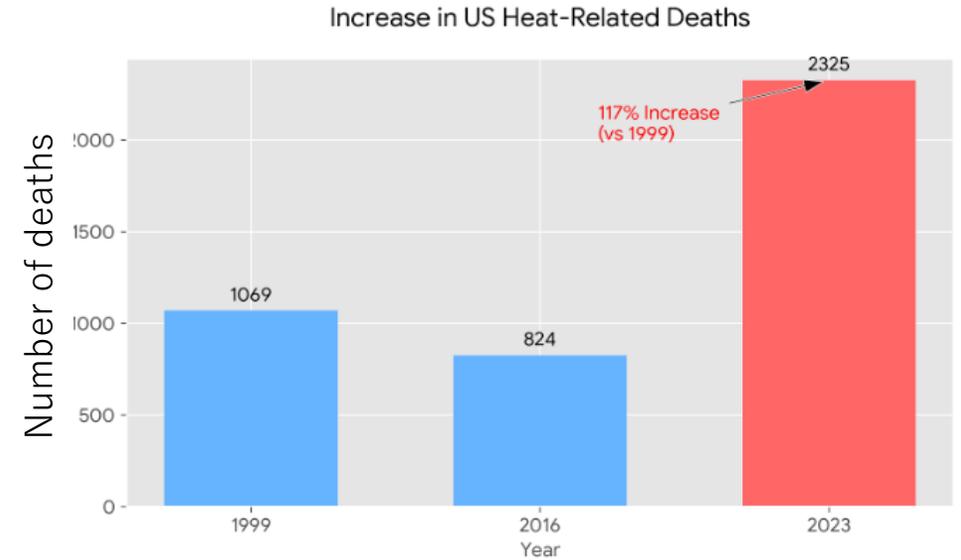
- **Rising Heat-Related Casualties in the U.S.**

- Heatstroke emergency transports reached a 6-year high in 2023 (Over 300 cases per 100k people in July/August).
- Heat-related deaths increased by 117% over 24 years (1999–2023).

- **Market Scale:**

Massive demand in Outdoor Labor, Logistics, Construction, Golf, and Outdoor Recreation sectors.

- *Note: 1 in 3 U.S. workers are exposed to extreme heat.*
- The potential market for the proposed **coolbit Water-In Cool CAP** is extremely large.



2. : The Ultimate Solution:

The Ultimate Solution: "Cooling with Vaporization Heat"

Key Features:

Water-Injected Pocket: A patented structure that holds water and uses evaporative cooling to lower temperatures significantly.

High Efficiency: Stays cool for 2–3 hours with only 50ml of water.

Ease of Use: Simply pour water into the pocket. No specialized equipment needed.

Performance: Achieves a temperature reduction of over- 10° C compared to standard caps.



Innovation!
You can find only here.



Cool
with only
50 ml
of water



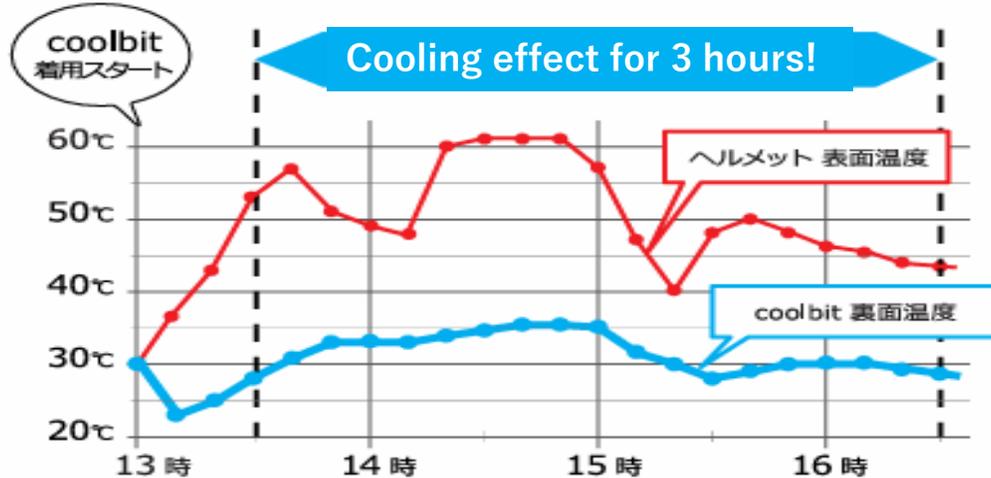
3. Evidence of effectiveness

When worn under a helmet, the difference in cooling temperature between the top and back of your head protects you from the health risks of heat stress. The back of your head stays several degrees cooler than the air conditioning while driving, keeping you refreshed and alert while driving!

For out doors

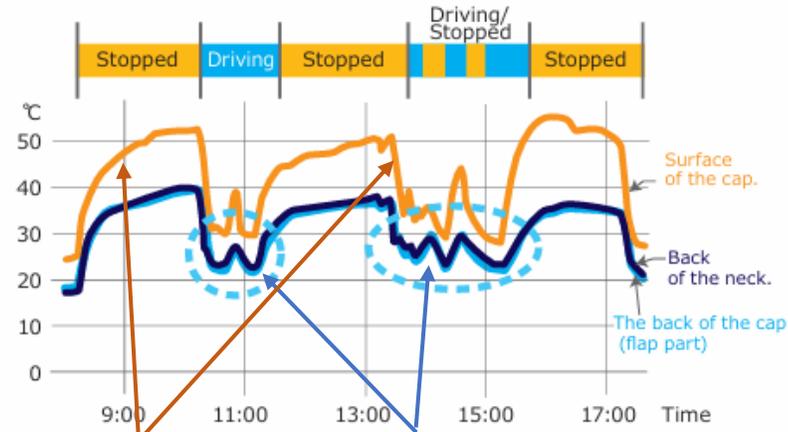


Long-lasting coolness



夏の炎天下で、人形にヘルメットと保水させたcoolbitを着用させヘルメット表面とcoolbit裏面を計測した温度推移グラフです

Cool your head in the car during air-conditioning!
Comfortable drive!



Leave your cap in a stopped car

Wear your cap while driving and unloading

Perfect as a uniform cap for **drive workers**
Just the right fit

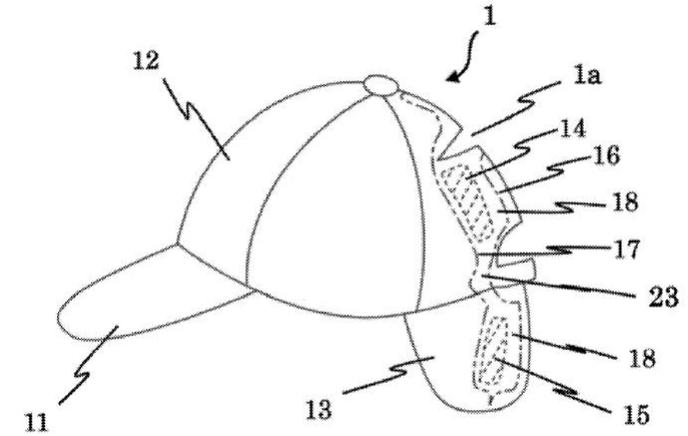


Helmet Inner Type for **construction workers**



4. Patent (IP)

US Published Patent Application:
 US 2026/0020633 A1
 PCT/JP2024/024792 → EU, China registration in transition
 Japan Priority (2023-212228)
 Explanation with structural cross-section
 (patent drawing)



Patent Figure 1: Basic patent structure

(19) **United States**
 (12) **Patent Application Publication** (10) **Pub. No.: US 2026/0020633 A1**
KOBAYASHI et al. (43) **Pub. Date: Jan. 22, 2026**

(54) **COOLING STRUCTURE USED FOR HEADGEAR AND LIKE**

(71) Applicant: **NICHIOYOU HATSUMEI GALLERY CO LTD, Yaizu City (JP)**

(72) Inventors: **Toyohiro KOBAYASHI, Yaizu City**

(21) Appl. No.: **19/339,300**

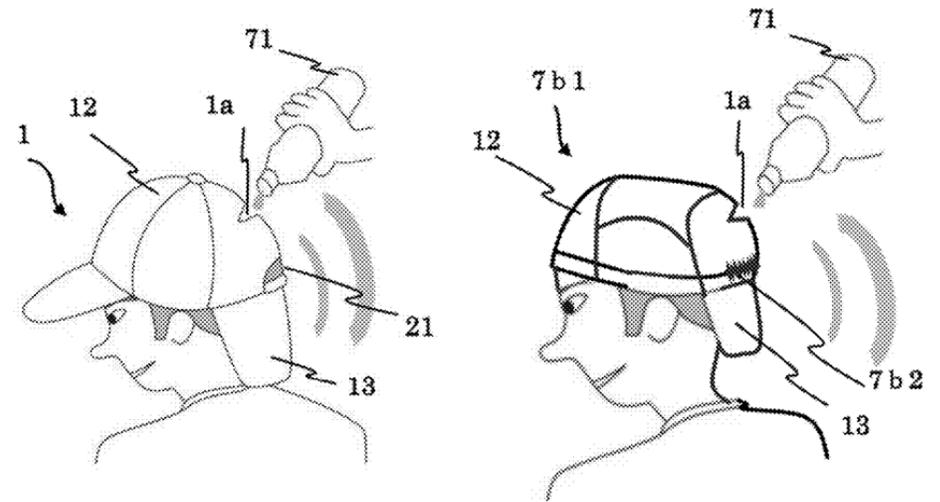
(22) Filed: **Sep. 25, 2025**

Publication Classification

(51) **Int. Cl.**
A42B 1/008 (2021.01)
A42B 1/019 (2021.01)
 (52) **U.S. Cl.**
 CPC *A42B 1/008* (2013.01); *A42B 1/019* (2021.01)

(57) **ABSTRACT**

A water inlet is provided at a top portion of a main body portion of a headgear or the like for pouring water from a plastic bottle into the water inlet. The back side of the main body portion and a flap portion are covered with moisture-permeable waterproof fabrics on one side or partially on both sides of sheet-like absorbent materials. A gap is formed



Cap & Hat Type

Helmet Inner Type

5. What We Aim for !

1) Collaboration Model and Actions

OEM Supply

Co-branding

Joint Development for US Specifications

Small-lot Test Sales → Full-scale Implementation

2) Next Steps

Samples Available

Individual Meetings (Remote) Available

Initial Test Implementation Package Available

Patent Technology License and Licensing

Agreement



SUSTAINABLE DEVELOPMENT GOALS

13 気候変動に具体的な対策を!

注水

気化冷却

冷える帽子 coolbit

Heatstroke Prevention Technology to Global Warming!

coolbit®

We want to protect people from heat wave and hotter weather!

coolbit Water in CAP

For out door and Sports For Workers

2025 シーズン向け coolbit 新シリーズ

温度

12:00 13:00 14:00 15:00 16:00 17:00 時刻

— 帽子頂上表面温度

— フラップ部の裏面の温度

測定時刻 12-17:00

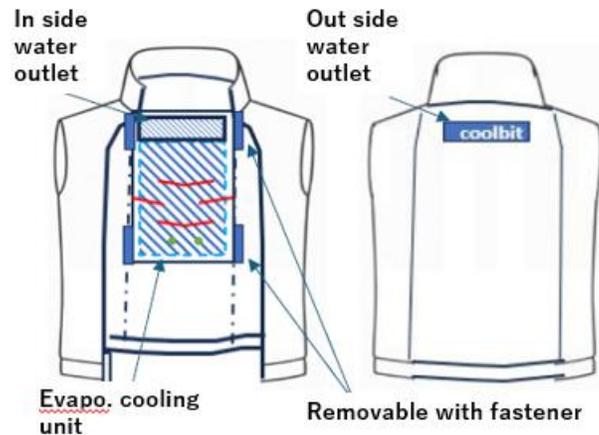
ADDITION INFO; Near Future Expansion, coolbit Water-IN Cooling WARE

We have also developed a new evaporative-cooling unit (Cooling Wear), currently under patent examination in Japan and will be international patent. A draft brochure is attached for your reference.

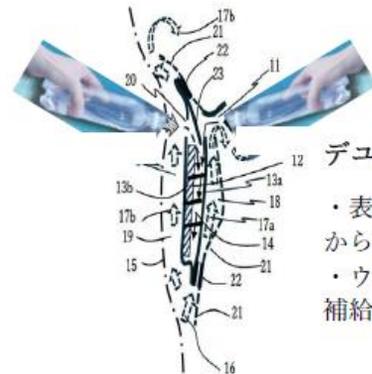
■ coolbit will introduce near future Water-In Cool Wear Evaporative Cooling + Air-Flow System Next-Generation Cooling Gear for Outdoor & Industrial Use



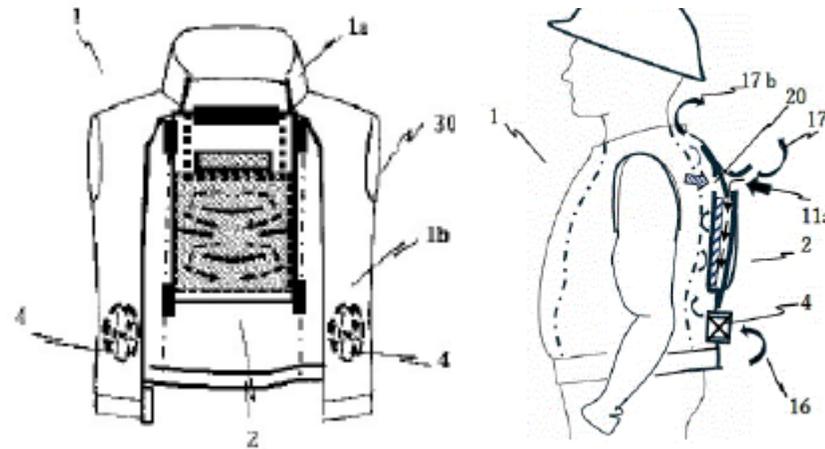
coolbit Cooling Wear will be comfortably worn to play tennes like sports.



Dual water injection System



Interior water outlet Front water inlet Removable



Evaporative Cooling + Air-Flow System



Additional explanation

1) Company Overview:

KOBAYA Co., Ltd

(JP Name; Nichiyou Hatsumeï Gallery Co., Ltd)

Official HP ; www.kobaya-co.jp



★A company dedicated to solving social challenges through invention.

Founded by a former major electronics manufacturer engineer

Over 150 patent applications and registrations

Actively pursuing system patents and international patents

Engaged in SDGs, occupational safety, and educational initiatives

CEO Toyohiro KOBAYASHI

Business Description

1) Manufacturing (contract manufacturing), wholesale, and online retail of innovative products.

2) Management of commercialization-related intellectual property and royalty management.

3) New business development planning based on business model patents.

2002 ; Founded; began commercializing patented ideas

2009: Incorporated; expanded intellectual property commercialization

2010: Launched “coolbit” heatstroke prevention series

2012: Launched winter product “Atataka-Ro”

2016–2024: Continued online and wholesale sales

10,000+ children’s cooling caps delivered to Kumagaya City. 60,000+ helmet cooling liners delivered to a major electric utility company

2024: Obtained Japanese patent for Water-In Cool CAP

2025: Planning international patent expansion and global business rollout. Currently collaborating with partners in the U.S., China, and other regions

The screenshot displays the website for KOBAYA CO.,LTD. The header includes navigation links: 日曜発明ギャラリー (Sunday Invention Gallery), About US (企業情報), product (当社商品展示), for corporation (ご法人様向け), Invention showcase (発明アイデア展示), collaboration (協力店), Contact US (お問合せ), and English Site (英語表示サイト). Below the header, a central graphic features the text "The idea creates a New World" and "Creating New Market". The graphic is surrounded by four circular icons: "人・出会い Matching" (People & Meeting), "ビジョン Vision" (Vision), "収益 profit" (Profit), and "アイディと商品力 Idea & Originality" (Idea & Originality). The background of the graphic shows a young boy in a blue cap looking to the side. At the bottom, the text "企業理念" (Company Philosophy) is displayed, followed by a paragraph in Japanese: "私たちは人との出会いを大切に、新しいアイデアやオリジナリティを基にした知的財産権を確保し、新市場へのビジョンを構築、商品力を高める活動をしたと考えています。そこに適正な収益を求め、新市場の開拓を継続し、子供たちに希望を与える新しい世界を目指します。"

Additional explanation

2) Product Introduction: "Cooling Hat – coolbit™" coolbit™ product series

Currently developing heatstroke prevention products primarily in Japan.

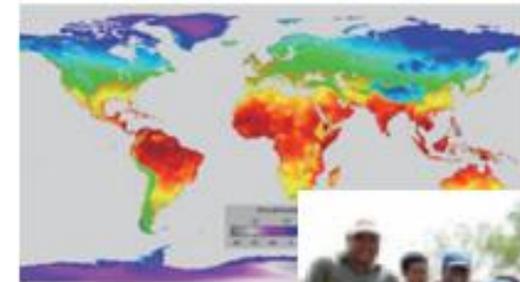


"coolbit Series."

Ctrl+Click to Link URL

Protect people from heat! Let's spread this Japan-born "Cooling CAP" to the world!

Launch new products with international patents!



熱中症対策は世界的な課題に!

Globalize the "coolbit Series."



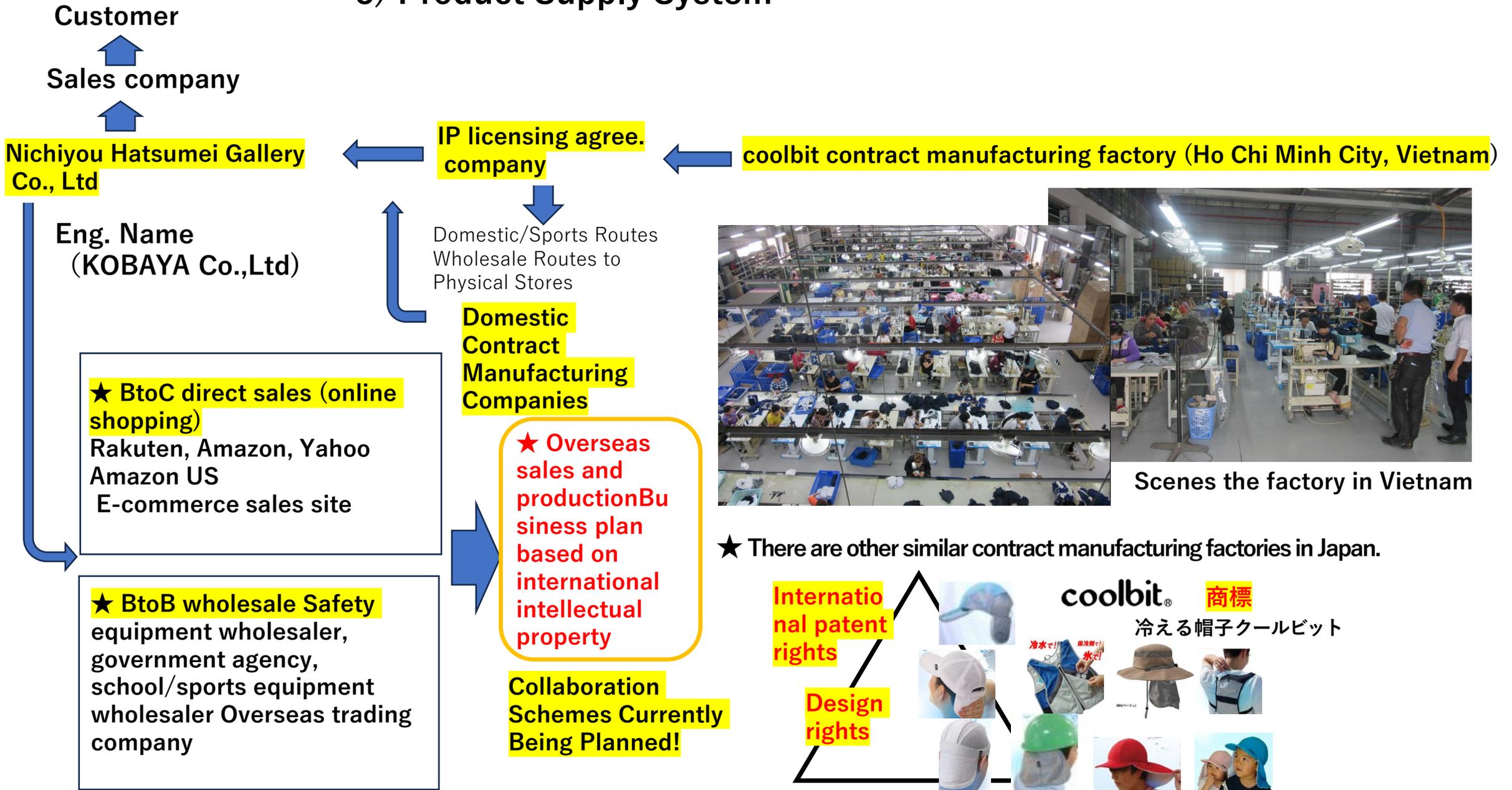
We aim for capital alliances and international collaborations based on joint ownership of international patent rights.

Ctrl+Click to Link URL

coolbit® Water-In Cool Cap

Additional explanation

3) Product Supply System



Scenes the factory in Vietnam

★ There are other similar contract manufacturing factories in Japan.



coolbit 商標
冷える帽子クールビット