Asahi KASEI



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Asahi Kasei Corporation

Intellectual Property Report 2022 Asahi Kasei Group



Intellectual Property Report 2022

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We, the Asahi Kasei Group, contribute to life and living for people around the world.

Message from the President

We celebrated the 100th anniversary of Asahi Kasei's founding in May 2022. Over the past 100 years, we have successively pioneered new fields through the passion of each employee to take on challenges, and continually achieved sustainable growth. As the first step toward rising to new challenges in the next 100 years, we announced our New Medium-term Management Plan 2024.

Positioning the new medium-term management plan as the first step toward achieving the vision for 2030, we will pursue business portfolio evolution by investing priority resources in the next growth businesses and embarking on fundamental business structure transformation from a medium-term perspective.

To evolve our business portfolio, we are engaged in aggressive investment in focus fields. At the same time, in fields which demand changes in our business strategy, we must pursue the optimal business stance through the use of existing assets and the use of capital from other companies where necessary. In other words, it is important that we focus our limited resources in fields in which we can build a superior position for ourselves, and that we advance our growth strategy with a sense of speed. Intellectual property plays an important role in this growth strategy. Intellectual property allows us to create stronger market dominance, also because it can play an important role in the use of capital from other companies.

Using the capabilities of IP landscaping that we have cultivated, to accelerate and implement these capabilities, this fiscal year we launched an Intellectual Property Intelligence Department, marking a fresh start to our intellectual property activities.

This report is provided to create a better understanding of the intellectual property activities of the Asahi Kasei Group.



Note

The scope of this report is Asahi Kasei Corp. and its consolidated subsidiaries. The plans, forecasts, and strategies described in this report are based on information available at the time of its preparation and represent our future outlook. These plans are reviewed based on changes in the business environment and progress in technological innovation, and do not represent a commitment or guarantee of future plans or results.

July 2022

President and Representative Director



Overview of the Asahi Kasei Group

Asahi Kasei Corporation

Company Name	/
President and Representative Director	1
Establishment	1
Paid-in Capital	j
Head Office	1
Employees (consolidated)	





Outline of the Asahi Kasei Group



Priority Fields for Provision of Value and Related Products



Hipore[™] and Celgard[™] separators for lithium-ion batteries







Ion-exchange membrane chlor-alkali electrolysis process

Lamous[™] artificial suede Dinamica[™] automotive interior material

Homes sector

Home & Living





Hebel Village[™] apartments for seniors

Hebel Haus[™] unit homes Hebel Maison[™] apartment buildings



Health Care





Pharmaceutical products in the field of orthopedics, for treatment of indications related to rheumatoid arthritis, and in the field of pain management

Planova[™] virus removal filters



Life Material



Ceolus™ microcrystalline cellulose



Household products



Atlas[™] condominiums





ZOLL AED Plus[™] automated external defibrillator

Businesses of the Asahi Kasei Group

History of the Asahi Kasei Group

Asahi Kasei celebrated the centennial of its founding in May 2022. Over the past 100 years, we have taken on the challenge of creating value in various fields, and through the passion and efforts of many of our predecessors and the support of all of our stakeholders, we were able to achieve sustainable growth. In every era, the Asahi Kasei Group has addressed social issues by dynamically transforming its business portfolio and supplying products and services that meet the changing needs of the times. Going forward, we will continue to contribute to life and living for people around the world by Creating for Tomorrow.



Engineers who achieved Japan's first ammonia synthesis soon after the founding of Asahi Kasei

Addressing Social Issues and Business Portfolio Transformation



New Medium-term Management Plan 2024

Asahi Kasei announced the New Medium-term AsahiKASEI Management Plan 2024 "Be a Trailblazer" on April 11, 2022. A "Trailblazer" is a pioneer who places markings on Be a tree bark and creates trail markers for those coming after Trailblazer when hiking the forests of uncharted lands. As we believe "trailblazer" defines Asahi Kasei's sense of purpose, we have included the word in the subtitle of our new mediumterm management plan. Positioning the new medium-term management plan as the first step toward achieving the vision for 2030, Asahi Kasei will pursue business portfolio evolution by investing priority resources in the next growth businesses and embarking on fundamental business structure transformation from a medium-term perspective. We have set targets for FY2024 of ¥270.0 billion in operating income, $\geq 11\%$ in ROE, and $\geq 8\%$ in ROIC.



evolution, we will implement both challenging investment for growth and cash generation from structural transformation and strengthening existing businesses with strong awareness of the three aspects of "speed," "asset light," and "high valueadded." Regarding asset light, we will consider the best business model and scenario for each business, without being constrained by conventional ideas of the process industries. Meanwhile, we will pursue how to generate profits by maximizing the use of existing business assets. When launching a new business, we will thoroughly pursue the best use of capital, including the use of capital from other companies, rather than investing in R&D from scratch



Next growth businesses

For challenging investment for growth, we will focus on "10 Growth Gears" (GG10). The term "Growth Gears" is comprised of two ideas: "Gear" for driving Asahi Kasei's growth, and "Gear" for driving changes in society. We intend to aggressively search for M&A opportunities and make bold investments in GG10. The total operating income of GG10 is currently about 35% of the group profit before corporate expenses and eliminations, but we aim to increase this to more than 70% around 2030.



Cash generation from structural transformation and strengthening existing businesses

The progress of reforms of the Strategic Restructuring Businesses mentioned in the previous medium-term management plan is divided into three categories: "Recovery" businesses, which are recovering profits; "Follow" businesses, for which turnaround strategies are being formulated and implemented; and "Exit" businesses, which are being considered for downsizing or sale, and each of these categories makes up approximately one-third of the number of businesses. Going forward, while determining "Follow" businesses and completing the execution of "Exit" businesses as quickly as possible, Asahi Kasei will periodically evaluate its business portfolio and promptly begin restructuring strategies for underperforming businesses. Furthermore, in our "fundamental business structure transformation," we will pursue the structural transformation based on compatibility with Asahi Kasei's vision rather than focusing on earnings performance.



Cash

Intellectual Property of the Asahi Kasei Group



Mission of Corporate IP

In line with the formulation of Asahi Kasei's new medium-term management plan, Corporate IP has established a new mission of "Protecting profits and maximizing the value of businesses by providing support corresponding to evolving business environments with IP expertise."

Considering this to be a permanent mission, we have named it our "Sustainable IP Goals (SIPGs)." With enhancing our strategic functions for our SIPGs, we aim to strengthen five focus activities that Corporate IP has pursued thus far. Our focus activities and strategic functions are described on the following pages together with specific examples of our activities and results.

Focus activities

Mission of Corporate IP "SIPGs"



Features and Strengths of Corporate IP

Strategic use of IP information (defensive and offensive)

Asahi Kasei considers patent searching to be a vital part of IP management, and through the thorough implementation of the necessary patent searching, we are focused on the strategic use of IP information both offensively and defensively.

1. Strategic Database (SDB)

One unique characteristic of the SDB is the inclusion of supplementary information specific to each individual patent (both in-house patents and other company patents) as related to R&D subjects of each business unit. The supplementary information includes a rank of importance, status of use, technology category, and countermeasures to other company patents. This refers to the "defensive" use of IP information in Asahi Kasei's businesses.

2. IP landscaping (IPL)

We actively perform IP landscaping, which leverages IP analysis for formulating and reviewing business strategies, as one measure for business innovation by digital transformation (DX). Based on industry and market information, IP information, specifically big data on patents and research reports, is collected and processed to formulate IP maps and associated materials. These materials are provided to management personnel and business units to inform discussions about Asahi Kasei's market position, strengths of our businesses, and business opportunities, eventually leading to management and business decisions related to matters such as business reinforcement, creation of new businesses and M&A activities. IPL can truly be called the "offensive" use of IP information to support Asahi Kasei's business strategies.

Defensive and offensive use of information (SDB and IPL)



Sophisticated global IP operational skills

At Asahi Kasei, to support global business, we have focused on enhancing IP operational skills (IP procedural skills) to steadily secure IP rights worldwide. As a result of these efforts, our patent granting ratio in major countries is higher than the average ratio of other companies*.

The ratio of objections by third parties toward our European patents (EP damages objection ratio) is also higher than the average ratio of other companies. This demonstrates that our European patents have a large impact on third parties and that they are effective patent rights. Using our sophisticated IP procedural skills, we have achieved a high winning ratio against these objections for damages.

Overseas patent granting ratio, EP damages objection ratio, and winning ratio	Created by Asahi Kasei based on public
	data fuana matianal matant afficas



* Average among other companies: average value among major chemicals manufacturers

Maximizing the value of DX inventions

To align with Asahi Kasei's initiatives to strengthen DX, we forecast that we will create many inventions using digital technology (DX inventions) to enhance our businesses. At Corporate IP, we are holding internal education sessions on our basic approach to DX inventions with the engineers who will first experience DX inventions. Through these sessions, even engineers with little experience with digital technology will be able to secure intangible assets (patent rights) without losing sight of their own results.

Furthermore, the method of use and

situations surrounding the use of intellectual property rights related to DX inventions differ greatly from those of previous inventions. To maximize the value of DX inventions, we need to envision usage scenarios for corresponding inventions and acquire the

most effectively in those scenarios.

of market analysis through IPL and

to maximize the value of DX inventions.

At Corporate IP, through the combination



Maximizing IP value

At Asahi Kasei, to build a patent portfolio that contributes to our business and to maximize our IP value, we run an IP value maximization cycle. In each area of activity of this cycle, we always work with an awareness of the contribution to our business. Furthermore, through regular patent portfolio maintenance, we build a patent portfolio that aligns with our business portfolio.

As a result of these activities, while maintaining the number of patents in force*, we have also increased our patent score. This demonstrates that we have improved the quality of our patent portfolio.

Going forward, by maximizing our GG10-related patent value, we will contribute to achieving the non-financial KPI in our new medium-term management plan of "Proportion of patents in force for GG10 of 50% or more."

* Patents in force: patent rights and patent applications for which rights have not been nullified



Cycle to maximize the value of intangible assets (cycle using IP activities as an example)



Non-financial KPI in new medium-term management plan



IP personnel development

Asahi Kasei has defined the necessary IP skills based on position for all employees and planned and implemented the necessary educational courses for employees to acquire these skills. We constantly review the contents of these educational courses, and in recent years we newly created a specialized course in DX inventions which is essential to respond to DX promotion activities.

In nurturing Corporate IP personnel, we have established "lifelong growth" as a human resources development target and will implement a medium- to long-term development plan to achieve our SIPGs. By enhancing the specialized capabilities of our Corporate IP personnel, we will increase the number of personnel certified as "Group Masters*," contributing to the non-financial KPI of "300 Group Masters" in our new medium-term management plan.

* Group Masters: program to evaluate employees possessing the high-level specialized capabilities established by the Asahi Kasei Group



Examples of educational courses for all employees

Group brand management

The Asahi Kasei Group has revised our "Brand Guidelines" that establish the display methods and display targets of our corporate brand so that it is used in a unified manner globally. We began using the Group Logo in 2007. In October 2021, in anticipation of our response to a digital society, to increase visibility when the Group Logo is displayed as an icon, we newly positioned our two-line "Compact Logo" as part of our corporate brand.

Intellectual Property Achievement Award

Asahi Kasei received an award from the Minister of Economy, Trade and Industry in the Intellectual Property Achievement Awards program sponsored by the Ministry of Economy, Trade and Industry (METI) and the Japan Patent Office in 2021. The Intellectual Property Achievement Award is an award given every year by METI to companies that use the IP system effectively and contribute to its smooth operations and development. In this year's awards, Asahi Kasei was recognized for its IP activities in the patent field as an "Excellent Corporation Utilizing the Intellectual Property Rights System."

Asahi Kasei aims for both "the realization of a sustainable society" and "sustainable growth of corporate value" by continuing to use IP rights effectively to create new businesses and to establish business strategies.

DX Stock 2022

Asahi Kasei's stock was selected jointly by METI and the Tokyo Stock Exchange as a "DX Stock 2022." At Corporate IP, we will continue to analyze IP information and to use IPL in the creation of new businesses.

Further Initiatives toward Maximum Use of Intangible Assets

The Asahi Kasei Group has diverse intangible assets including human resources, core technologies, and marketing channels that span its three sectors of Material, Homes, and Health Care, and its strength is in its ability to use all these intangible assets. A goal in the new medium-term management plan is to use digital technologies to maximize our ability to connect these diverse intangible assets to build strategies and create new businesses.

As demonstrated in the "Features and Strengths of Corporate IP," by uniting IPL and IP operational capabilities, which are the strengths of Corporate IP, we are formulating and making recommendations for business strategy models from a perspective unique to Corporate IP. Needs are increasing to maintain and enhance competitiveness using the intangible assets



Mission of Intellectual Property Intelligence Department

Based on its vision of "realizing the further enhancement of corporate value through intangible assets," the Intellectual Property Intelligence Department is pursuing the following two missions using the visualization of intangible assets as a tool.

- 1 Based on the standpoint of an IP expert, the Intellectual Property Intelligence Department designs strategy models that utilize intangible assets, and uses IP to contribute to the formulation of management strategy models and business models and to the creation of new businesses.
 - models and information that contribute to promotion of the new medium-term management plan 2) The Intellectual Property Intelligence Department provides specific proposals to each strategic business unit to aid in the evaluation of business models.
- 2 By disclosing IP information that contributes to enhanced corporate value, the Intellectual Property Intelligence Department strengthens relationships with stakeholders.



Oroup Logo

Compact Logo

Asahi **KASEI**

Asahi

KASE

that are the strengths of companies, to build sustainable business models that create medium- to long-term corporate value, and to promote mutual understanding, dialogue, and engagement among corporate managers and investors surrounding these activities. In this way, the importance of IP in contributing to enhanced corporate value is growing rapidly.

Amid this trend, to coordinate among the Corporate Strategy, each business unit, and Corporate IP, and to strengthen the function of "contributing to the formulation of business strategies " as part of the mission of Corporate IP, on April 1, 2022, we newly established the Intellectual Property Intelligence Department under the direct supervision of the Executive Officer for Corporate Strategy.

Aiming to build strategies and create new businesses by making full use of diverse internal and external intangible assets. April 2022 establishment of Intellectual Property Intelligence Department for further accelerating use of intangible assets across the Asahi Kasei Group

1) The Intellectual Property Intelligence Department provides corporate management planning functions with strategy

Contributing to accelerated growth in GG10 using intangible assets

Accelerating GG10 growth is essential in realizing the new medium-term management plan. By using intangible assets, Corporate IP and the Intellectual Property Intelligence Department contribute to the growth of GG10 by accelerating new business creation and by creating asset-light businesses that limit investment in tangible assets.

For example, in building our strategy for the water

Value chain of water electrolysis business



Evaluation of players' technological capabilities





Competitor business strategy analysis

electrolysis business, we contribute to the evaluation

of the technological capabilities based on IPL of the

upstream and downstream players (companies) for

chain of the business. Furthermore, by analyzing the

patent portfolios of competitors, we contribute to the

water electrolysis systems in organizing the value

analysis of competitors' business strategies.

Supporting existing businesses through IPL

Supporting the development of new customers

Asahi Kasei uses IPL to develop new customers using the strengths of our own products. By analyzing patent groups in technological fields in which we have no past business history, we identify technological fields in which the strengths of our products are pertinent and select new potential customers from companies belonging to those fields. Furthermore, by showing our IPL results when meeting new customers, we deepen their understanding of our technologies, which will lead to new business.



Supporting marketing activities

Asahi Kasei has a large number of materials and parts available as products. Thus far, customers only recognized individual products and it was difficult for them to get a broad view of the whole Company.

Showing a map that integrates the patent information of the customer and Asahi Kasei allows the customer to visually grasp the affinity of both companies' technologies and enables us to expand business with the customer into products with no previous transaction history.



Building a foundation to create new businesses

Developing a system to accelerate innovation

To create new businesses and to reform and further grow existing businesses, we are maximizing the value of diversity of our engineers to build a unique platform that connects internal issues and internal human resources.

As the first step in this initiative, we developed the Employee (expert) Recommendation System. The system integrates and analyzes issues entered by the user and the technical expertise of internal human resources defined using the patent classifications attached to our patent applications. Through the system, the user becomes aware of employees who could contribute to the resolution of the user's issue.



Developing a system to accelerate the creation of new businesses from core technologies

To lower the barriers to new business creation, we are developing an analysis system to efficiently search for emerging technologies that utilize Asahi Kasei's core technologies. The analysis method is composed of three steps.

By 1) capturing the constituent technologies of Asahi Kasei's core technologies, 2) capturing the constituent technologies of emerging technologies, and 3) matching each set of constituent technologies, the system connects our core technologies with emerging technologies and makes suggestions to connect our core technologies to new businesses.



Since 2019, we have been holding the "IPL de Connect" event as venue for members from technology divisions, planning divisions, marketing divisions, and IP divisions to hold discussions based on IP landscaping.

In 2021, focused on the subject of "achieving decarbonization," we held active discussions on creating innovation aimed at a decarbonized society by connecting "diverse core technologies" and "marketing functions."

innovation



Technical expertise of each employee is defined using patent classifications (technology category) attached to their patent applications

Overview of the concept of "core technologies and needs matching"

Number of IP Applications in 2021 and IP Rights Owned



Material sector (Chemicals, Fibers, Electronics)
Health Care sector (Pharmaceuticals, Medical Care)
Corporate
(From January 1, 2021, to December 31, 2021)

Number of IP Applications

From January 1, 2021, to December 31, 2021

		Material	Homes	Health Care	Corporate	Total
Patents	Japanese	454	75	24	269	822 1
	Overseas	176	3	16	57	252 ²
Tue de se eulee	Japanese	47	49	8	59	163
Trademarks	Overseas	79	0	19	64	162

From January 1, 2020, to December 31, 2020

		Material	Homes	Health Care	Corporate	Total
Patents -	Japanese	432	84	32	224	772 1
	Overseas	172	1	22	53	248 ²
Tue de un e ulue	Japanese	14	42	12	26	94
Trademarks	Overseas	106	0	10	3	119

Number of IP Rights Owned

As of December 31, 2020

		Material	Homes	Health Care	Corporate	Total
	In practice	2,024	437	207	445	3,113
Japanese Patents	Scheduled to be in practice	842	284	22	449	1,597
Japanese Faterits	Defensive & other	1,880	415	170	236	2,701
	Total	4,746	1,136	399	1,130	7,411 1
	US	893	8	105	219	1,225
	Europe	1,499	67	471	432	2,469
Overseas Patents	Asia	2,753	28	257	608	3,646
	Other	271	20	88	84	463
	Total	5,416	123	921	1,343	7,803 ¹
Tradamarka	Japanese	1,509	1,078	258	332	3,177 1
Trademarks	Overseas	2,578	66	497	664	3,805

¹ Where there are joint applications or shared rights held among the businesses within the Group, the total number of applications and rights for the businesses and the total number of applications and rights for the Group may not match.

 $^{\scriptscriptstyle 2}$ Overseas applications for a single patent family are counted as one.

Major External Commendations

Fiscal Year	Commendation Organization		Recipient and Title
2020	Medal with Purple Ribbon	Government of Japan	Hajime Nagahara Development of the cyclohexene production process for nylon intermediate
	The Nobel Prize in Chemistry	Royal Swedish Academy of Sciences	Akira Yoshino The development of lithium-ion batteries
	The Order of Culture	Government of Japan	Akira Yoshino The development of lithium-ion batteries
2019	European Inventor Award, Non-EPO Countries	European Patent Office	Akira Yoshino The development of lithium-ion batteries
2019	Awards for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology	Ministry of Education, Culture, Sports, Science and Technology	Ken Suzuki Use of Au nanoparticle catalysts in a commercial chemical production process
	The Chemical Society of Japan Award for Technical Development	(PIIA) The Chemical Society of Japan	Yoshifumi Nishimura, Takahiko Kondo, Shinya Kawasoe, Sumio Ikejiri, Takashi Nozaki Development of separator for high-safety and high-performance lithium-ion secondary batteries

Note 1: Names of organizations shown as of time of award. Note 2: PIIA stands for "Public Interest Incorporated Association"

Asahi Kasei's Winners of the Japanese Government's Medal with Purple Ribbon in the Field of Science and Technology

Year Award Received	Recipient	
2020	Hajime Nagahara	Development of the c
2015	Masaya Yamashita	Development of the e offset
2008	Shinsuke Fukuoka	Development of non-
2006	Junzo Masamoto	Development of new
2004	Akira Yoshino	Development of the li
2003	Ichiro Shibasaki	Development of high-
1988	Akira Yomiyama	Development of meth
1984	Maomi Seko	Development of NaCl
	2020 2015 2008 2006 2004 2003 1988	2020Hajime Nagahara2015Masaya Yamashita2008Shinsuke Fukuoka2006Junzo Masamoto2004Akira Yoshino2003Ichiro Shibasaki1988Akira Yomiyama

Local Commendations for Invention (Japan Institute of Invention and Innovation)

Fiscal Year	Commendation	Area	Title
2021	The Encouragement for Invention Prize	Kanto	Hydrogenated elastomer used in high-performance shoe midsoles
2020	The Prize of the Chairman of Shizuoka Institute of Invention and Innovation	Kanto	Low-temperature curable photosensitive resin composition for use as a protective film for semiconductors
	The Prize of the Chairman of Japan Institute of Invention and Innovation	Kyushu	Ultra-small quantum type infrared sensor operating at room temperature
2019	The Prize of the Chairman of Miyazaki Institute of Invention and Innovation	Kyushu	Electrolysis cell and electrolysis tank
	The Encouragement for Invention Prize	Kanto	Connector for 1500 DC voltage application in photovoltaic systems

Achievement

cyclohexene production process for nylon intermediate

electronic compass and method to automatically compensate for magnetic

phosgene polycarbonate production process using CO₂ as starting material

process for manufacturing polyacetal resin

lithium-ion battery

-sensitivity thin-film Hall elements

thod for producing adiponitrile by electrodimerization

Cl electrolytic technique with ion-exchange membranes

Data by Segment

Material Segment

- **Environmental Solutions**
- Mobility & Industrial
- Life Innovation
- Asahi Kasei Microdevices

Materials and products with high added value using unrivaled cutting-edge technologies are offered worldwide, including basic chemicals as raw material for plastic, unique fiber materials that are original and differentiated, environmentally friendly performance materials, consumables such as Saran Wrap[™] cling film, battery separators, and electronic components such as LSIs and sensors.

Number of patents and trademarks owned mbar 21 2020 Ac of D-

2,024	842	1,880	4,746	893	1,499	2,753	271	5,416	1,509	2,578
In practice	Scheduled to be in practice	Defensive & other	Total	US	Europe	Asia	Other	Total	Japanese	Overseas
Japanese Patents					Ove	erseas Pate	nts		Trader	marks
As of Dec	ember 31	, 2020								



Homes Segment

Asahi Kasei Homes

Asahi Kasei Construction Materials

Providing a platform for comfortable lifestyles with a homes business focused on the Long Life Home concept for maintaining high customer satisfaction for more than half a century by providing high-quality products and services, and a construction materials business that develops advanced and innovative high value-added products and services.

Number of patents and trademarks owned

As of December 31, 2020

Japanese Patents				Ove	rseas Pate	ents		Trade	marks	
In practice	Scheduled to be in practice	Defensive & other	Total	US	Europe	Asia	Other	Total	Japanese	Overseas
437	284	415	1,136	8	67	28	20	123	1,078	66



Asahi Kasei Pharma Asahi Kasei Medical

World-class pharmaceutical products in the fields of orthopedics, acute critical and intensive care, and immunology; blood purification products to treat chronic and acute kidney failure and intractable diseases; bioprocess products that contribute to progress in the world's medical care through manufacturing processes of biopharmaceuticals and other new drugs; critical care products such as AED, defibrillators, and temperature management systems that help save the lives of many people.

Asahi Kasei (Corporate Research &

Development, etc.)

Depending on the degree of

long-term corporate R&D to

novelty and the market growth

potential, R&D in the Asahi Kasei

Group is divided into medium- to

create new businesses that span

across different fields and R&D to

enhance established businesses.

operating configuration, external

To leverage the diversity of our

proactively utilized for strategic investment in startups in the

resources such as corporate

creation of new businesses.

venture capital (CVC) are

Health Care Segment

As of Dec	ember 31	, 2020								
Japanese Patents					Ove	rseas Pate	ents		Trade	marks
In practice	Scheduled to be in practice	Defensive & other	Total	US	Europe	Asia	Other	Total	Japanese	Overseas
207	22	170	399	105	471	257	88	921	258	497



Corporate

Number of patents and trademarks owned

As of December 31, 2020

Japanese Patents				Overseas Patents					Trademarks	
In practice	Scheduled to be in practice	Defensive & other	Total	US	Europe	Asia	Other	Total	Japanese	Overseas
445	449	236	1,130	219	432	608	84	1,343	332	664



Scheduled to be in practice 39.7%

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Number of patents and trademarks owned





