B&Z

BARZANÒ&ZANARDO

INTELLECTUAL PROPERTY

SERGIO DI GENNARO

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Patent Landscape

Milano 16.04.2026

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Patent Landscape - Program

Patent landscape.

- Meaning of
- Purpose of
- Questions that analysis answers
- Process steps
- Results
- Examples

Patent Landscape

- A Patent Landscape is an evaluation of a set of patents.
- Scope of a Landscape is guided by the desired *business objective.*
- Represented as intelligent visuals

Patent Landscape meaning

- Patent data analysis revealing market, competition and technology trends.
- Snapshot of a specific industry, technology, or geographic region.

Patent Landscape

Purposes

The information derived from a patent analysis is useful for a company, a research institute, an University etc...

For:

- Generate new technologies.
- Monitor competitor activity.
- Design product or process bypassing patents (design around) .
- Identify licensing and M&A targets.
- Reduce legal risks (performing freedom to operate analisys).
- Avoid spending time and money on outdated/crowded technologies/industries.
- Engage person from R&D, marketing, legal and business development groups to patents
- Optimize internal research and development processes.
- Establish a comprehensive and well-informed IP strategy (acquire filing strategies and general protection of competitors)

Patent Landscape

Purposes

Economic advantages for a company :

- Cost reduction (R&D).
- Reduction of costs and product marketing times.
- Reduction of defensive litigation costs on patents.
- Elimination of redundant search.
- Increased revenue (litigation/offensive licensing).

Patent Landscape

Questions arising (Examples)

- Which organizations (companies, research institutions, others) operate in a certain territory.

Es. USA Companies operate in Europa

2018 (*European Patent Office data*)

- United Technologies 1.983
- Qualcomm 1.593
- General Electric, 1.307
- Intel 1.057
- Microsoft 975
- Alphabet (Google) 779
- Apple 375

Patent Landscape

Qestions arising (Examples)

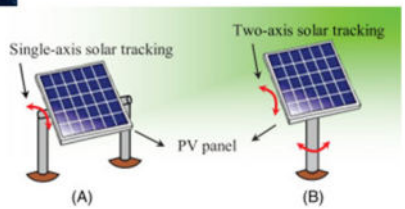
- Which technologies and sectors are most innovative.

  E.g. which sectors have higher number of patents: 2022 (*European Patent Office data*)

Digital Communications-16.705 (+11,2% annuo)

Medical devices (tecnologies)- 15.683 (+1%)

Electrical machines, equipment and energy -13.951, (+18,2%)



Pharmaceutical industry- 9.310 (+1,0%)

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Patent Landscape

Questions (examples)

- How technical problems are solved and what product features are disclosed in patents

United States Patent [19]
Hartman et al.

[11] Patent Number: 5,960,411
[45] Date of Patent: Sep. 28, 1999

[54] METHOD AND SYSTEM FOR PLACING A PURCHASE ORDER VIA A COMMUNICATIONS NETWORK

[75] Inventors: Peri Hartman; Jeffrey P. Bezos; Shel Kaphan; Joel Spiegel, all of Seattle, Wash.

[73] Assignee: Amazon.com, Inc., Seattle, Wash.

[21] Appl. No.: 08/928,951

[22] Filed: Sep. 12, 1997

[56] References Cited

U.S. PATENT DOCUMENTS

(List continued on next page.)

Primary Examiner—James P. Trammell
Attorney, Agent, or Firm—Perkins Coie LLP

[57] ABSTRACT

A method and system for placing an order to purchase an item via the Internet. The order is placed by a purchaser at a client system and received by a server system. The server system receives purchaser information including identification of the purchaser, payment information, and shipment information from the client system.

26 Claims, 11 Drawing Sheets

1. A method of placing an order for an item comprising:
under control of a client system,
displaying information identifying the item; and
in response to only a single action being performed, sending a request to order the item along with an identifier of a purchaser of the item to a server system;
under control of a single-action ordering component of the server system,
receiving the request;
retrieving additional information previously stored for the purchaser identified by the identifier in the received request; and
generating an order to purchase the requested item for the purchaser identified by the identifier in the received request using the retrieved additional information; and
fulfilling the generated order to complete purchase of the item
whereby the item is ordered without using a shopping cart ordering model.

Patent Landscape

Questions (examples)

- How long it takes for innovations to reach the market

2017

EP 3 475 433 B1

EUROPEAN PATENT SPECIFICATION

ADENOVIRAL VECTOR

2021

Inventor:
Sarah Gilbert

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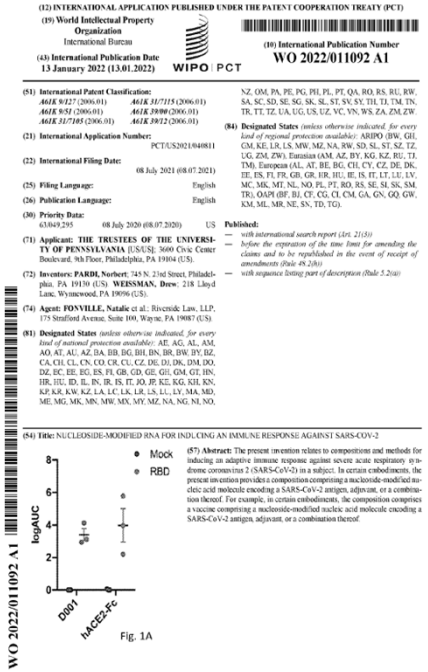
https://worldwide.espacenet.com/advancedSearch?locale=en_EP

Patent Landscape

Questions (examples)

- How long it takes for innovations to reach the market

2020



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 January 2022 (13.01.2022)

WIPO | PCT

(10) International Publication Number
WO 2022/011092 A1

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A61K 9/127 (2006.01) *A61K 31/7115* (2006.01)
A61K 9/51 (2006.01) *A61K 39/00* (2006.01)
A61K 31/7105 (2006.01) *A61K 39/12* (2006.01)

(21) International Application Number:
PCT/US2021/040811

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08 July 2021 (08.07.2021)

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(26) Publication Language: English

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63/049,295 08 July 2020 (08.07.2020) US

(71) Applicant: THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA [US/US]; 3600 Civic Center Boulevard, 9th Floor, Philadelphia, PA 19104 (US).

(72) Inventors: PARDI, Norbert; 745 N. 23rd Street, Philadelphia, PA 19130 (US). WEISSMAN, Drew; 218 Lloyd Lane, Wynnewood, PA 19096 (US).

(74) Agent: FOVILLE, Natalie et al.; Riverside Law, LLP, 175 Strafford Avenue, Suite 100, Wayne, PA 19087 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report (Art. 21(3))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
— *with sequence listing part of description (Rule 5.2(a))*

(54) Title: NUCLEOSIDE-MODIFIED RNA FOR INDUCING AN IMMUNE RESPONSE AGAINST SARS-COV-2

(57) Abstract: The present invention relates to compositions and methods for inducing an adaptive immune response against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in a subject. In certain embodiments, the present invention provides a composition comprising a nucleoside-modified nucleic acid molecule encoding a SARS-CoV-2 antigen, adjuvant, or a combination thereof. For example, in certain embodiments, the composition comprises a vaccine comprising a nucleoside-modified nucleic acid molecule encoding a SARS-CoV-2 antigen, adjuvant, or a combination thereof.

Fig. 1A

WO 2022/011092 A1

2021

Inventors:

KARIKO KATALIN

WEISSMAN DREW

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Patent Landscape

The Process

1. Research.
2. Data analysis.
3. Create categories and populations.
4. Create visualization charts/tables.

Patent Landscape

The Process – Reserchер – The Databese

Free database

UIBM - Ufficio Italiano Brevetti Marchi

WIPO - World Intellectual Property Organization

Esp@cenet - The European Network of patents

USPTO – patent database

Professionali database with costs

Orbit Intelligence by Questel

Derwent Innovation BY Clarivate

PatBase BY Microsoft

STN International
The Scientific & Technical Information Network

LexisNexis PatentSight®

Patent Landscape

The Process - Resercher

Search for Int. technology classifications.

Search for Key words

Serch by patent owner (Company, investment funds, Institute, University, people)

Geographical indications (countries, regions, conventions).

Patent Landscape

Process - Resercher

Search by technological classes – International Patent Classification IPC

☐ A	HUMAN NECESSITIES	
☐ B	PERFORMING OPERATIONS; TRANSPORTING	
☐ C	CHEMISTRY; METALLURGY	
☐ D	TEXTILES; PAPER	
☐ E	FIXED CONSTRUCTIONS	
☐ F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING	
☐ G	PHYSICS	
☐ H	ELECTRICITY	
☐ Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS	

Patent Landscape

The Process - resercher

Search by technological classes – International Patent Classification IPC

A	HUMAN NECESSITIES	
	AGRICULTURE	
A01	AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING	
	FOODSTUFFS; TOBACCO	
A21	BAKING; EDIBLE DOUGHS	
A22	BUTCHERING; MEAT TREATMENT; PROCESSING POULTRY OR FISH	
A23	FOODS OR FOODSTUFFS; TREATMENT THEREOF, NOT COVERED BY OTHER CLASSES	
A24	TOBACCO; CIGARS; CIGARETTES; SIMULATED SMOKING DEVICES; SMOKERS' REQUISITES	
	PERSONAL OR DOMESTIC ARTICLES	
A41	WEARING APPAREL	
A42	HEADWEAR	
A43	FOOTWEAR	
A44	HABERDASHERY; JEWELLERY	
A45	HAND OR TRAVELLING ARTICLES	
A46	BRUSHWARE	
A47	FURNITURE; DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL	
	HEALTH; AMUSEMENT	
A61	MEDICAL OR VETERINARY SCIENCE; HYGIENE	
A62	LIFE-SAVING; FIRE-FIGHTING	
A63	SPORTS; GAMES; AMUSEMENTS	
A99	SUBJECT MATTER NOT OTHERWISE PROVIDED FOR IN THIS SECTION	

Symbol	Classification and description
H	ELECTRICITY
H01	ELECTRIC ELEMENTS
H02	GENERATION; CONVERSION OR DISTRIBUTION OF ELECTRIC POWER
H03	ELECTRONIC CIRCUITRY
H04	ELECTRIC COMMUNICATION TECHNIQUE
H05	ELECTRIC TECHNIQUES NOT OTHERWISE PROVIDED FOR
H10	SEMICONDUCTOR DEVICES; ELECTRIC SOLID-STATE DEVICES NOT OTHERWISE PROVIDED FOR
H99	SUBJECT MATTER NOT OTHERWISE PROVIDED FOR IN THIS SECTION

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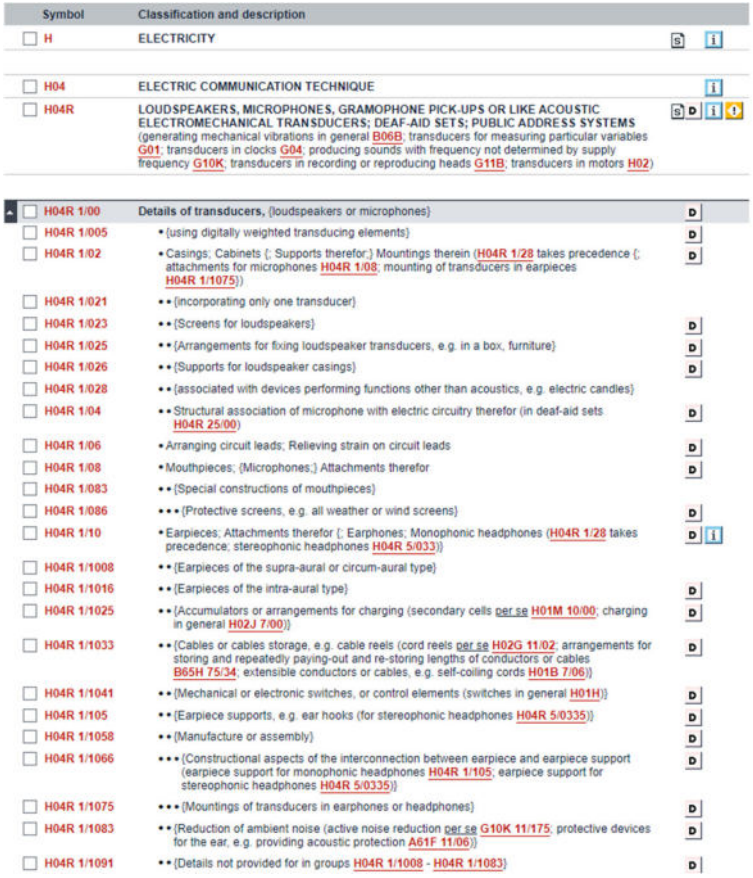
Patent Landscape

The Process - resercher

Search by technological classes – International Patent Classification IPC

Example of Link:
https://worldwide.espacenet.com/classification?locale=en_EP



Symbol	Classification and description
H	ELECTRICITY
H04	ELECTRIC COMMUNICATION TECHNIQUE
H04R	LOUDSPEAKERS, MICROPHONES, GRAMOPHONE PICK-UPS OR LIKE ACOUSTIC ELECTROMECHANICAL TRANSDUCERS; DEAF-AID SETS; PUBLIC ADDRESS SYSTEMS (generating mechanical vibrations in general B06B; transducers for measuring particular variables G01; transducers in clocks G04; producing sounds with frequency not determined by supply frequency G10K; transducers in recording or reproducing heads G11B; transducers in motors H02)
H04R 1/00	Details of transducers, {loudspeakers or microphones}
H04R 1/005	• {using digitally weighted transducing elements}
H04R 1/02	• Casings; Cabinets {; Supports therefor;} Mountings therein (H04R 1/28 takes precedence {; attachments for microphones H04R 1/08; mounting of transducers in earpieces H04R 1/1075})
H04R 1/021	• • {incorporating only one transducer}
H04R 1/023	• • {Screens for loudspeakers}
H04R 1/025	• • {Arrangements for fixing loudspeaker transducers, e.g. in a box, furniture}
H04R 1/026	• • {Supports for loudspeaker casings}
H04R 1/028	• • {associated with devices performing functions other than acoustics, e.g. electric candles}
H04R 1/04	• • Structural association of microphone with electric circuitry therefor (in deaf-aid sets H04R 25/00)
H04R 1/06	• Arranging circuit leads; Relieving strain on circuit leads
H04R 1/08	• Mouthpieces; {Microphones;} Attachments therefor
H04R 1/083	• • {Special constructions of mouthpieces}
H04R 1/086	• • • {Protective screens, e.g. all weather or wind screens}
H04R 1/10	• Earpieces; Attachments therefor {; Earphones; Monophonic headphones (H04R 1/28 takes precedence; stereophonic headphones H04R 5/033)}
H04R 1/1008	• • {Earpieces of the supra-aural or circum-aural type}
H04R 1/1016	• • {Earpieces of the intra-aural type}
H04R 1/1025	• • {Accumulators or arrangements for charging (secondary cells per se H01M 10/00; charging in general H02J 7/00)}
H04R 1/1033	• • {Cables or cables storage, e.g. cable reels (cord reels per se H02G 11/02; arrangements for storing and repeatedly paying-out and re-storing lengths of conductors or cables B65H 75/34; extensible conductors or cables, e.g. self-coiling cords H01B 7/06)}
H04R 1/1041	• • {Mechanical or electronic switches, or control elements (switches in general H01H)}
H04R 1/105	• • {Earpiece supports, e.g. ear hooks (for stereophonic headphones H04R 5/0335)}
H04R 1/1058	• • {Manufacture or assembly}
H04R 1/1066	• • • {Constructional aspects of the interconnection between earpiece and earpiece support (earpiece support for monophonic headphones H04R 1/105; earpiece support for stereophonic headphones H04R 5/0335)}
H04R 1/1075	• • • {Mountings of transducers in earphones or headphones}
H04R 1/1083	• • {Reduction of ambient noise (active noise reduction per se G10K 11/175; protective devices for the ear, e.g. providing acoustic protection A61F 11/06)}
H04R 1/1091	• • {Details not provided for in groups H04R 1/1008 - H04R 1/1083}

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Patent Landscape

The Process Key Word definition

Use boolean operator as AND, OR, NOT ecc…

Use Truncation
Enter ***screw**** to find any word beginning with ***screw*** ,
e.g. ***screws*** , ***screwdriver*** , ***screwing*** , ***screwer*** , etc.
Enter ***screw?*** to find the words ***screw*** or ***screws*** .
Enter ***Ann#*** to find the names ***Anne*** or ***Anna*** .

Temporal interval (filing date, pubblication date)
Ad es.
1994:2014 Years
199401,201412 Years and Months
19949191 20141231 date

Patent Landscape

The Process – Patent owner

The search for owners may include a preliminary analysis to search for all possible kind of owners of a patent:

- Cases of co-ownership
- Exclusive licensees
- Intragroup licenses
- Holding
- Financial companies
- Ecc….

Patent Landscape

The Process – Geografical indications

- Patent search by country (USA GB, FR etc...)
- Search for international patents with validations in individual countries e.g. PCT (validated in USA, GB, FR and IT).
- Search for regional patents e.g. EP(IT, FR, DE).

Patent Landscape

The Process – Analysis of the results

Removal and/or Normalization of data

- Removal of unwanted data.
- Removal of documents with duplicate type codes (A3, A4, A8, A9).
- Removal of corresponding foreign applications.
- Removing irrelevant results.

- For patent applications published in the United States without assignee data, by inventor/year.
- By original assignee, current assignee, reassignment chain.
- By organization, licensee, buyer, business unit.
- By type of organization, large, small, university, financial, etc.

Patent Landscape

The Process – Analysis of the results
Categories and populations

Category:
- Patent pending
- Granted patent

Possible infringment

- Application refused, lapsed withdrawn
- Patent lapsed

Free to Operate

Patent Landscape

The Process – Analysis of the results

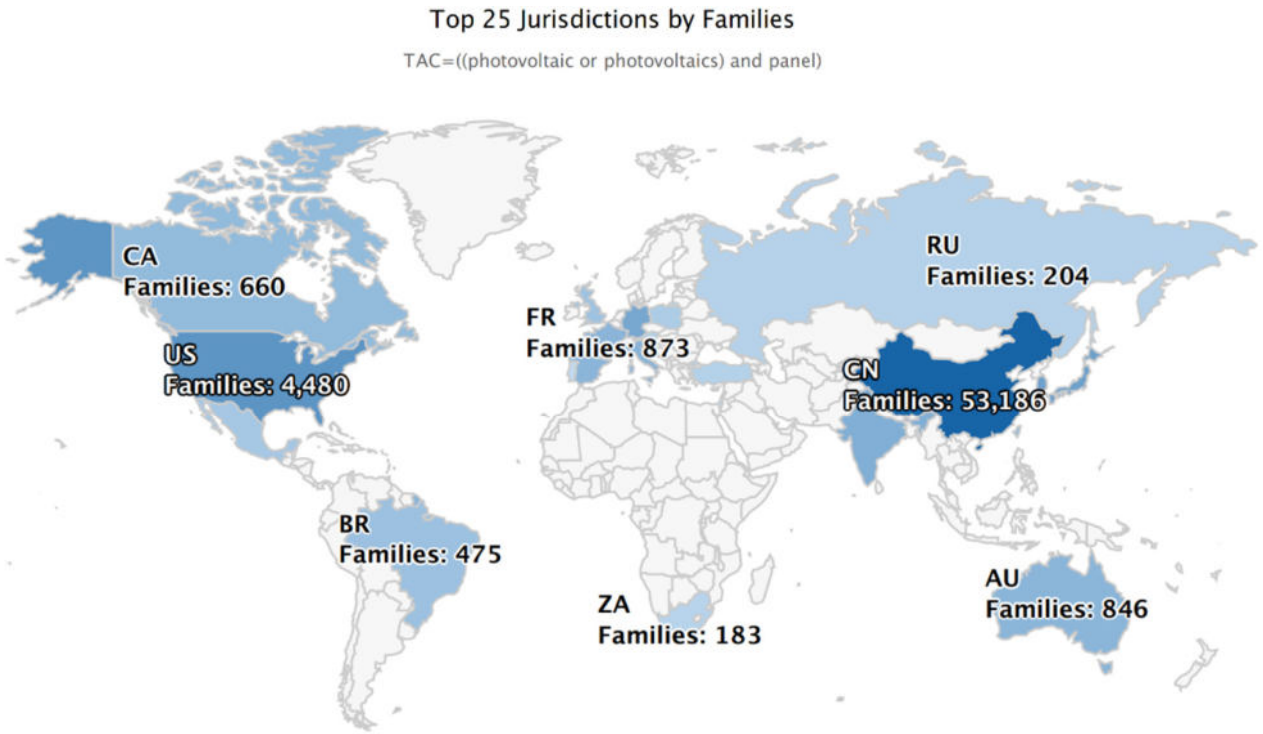
Create patent mapping diagrams, graphs, tables, and visualizations.
Examples :

- Geography.
- Patent filing or publication time trend.
- Owners.
- Technologies.
- Company vs. product.
- Time from application submission to examination or grant.

Patent Landscape

The Process – Analysis of the results

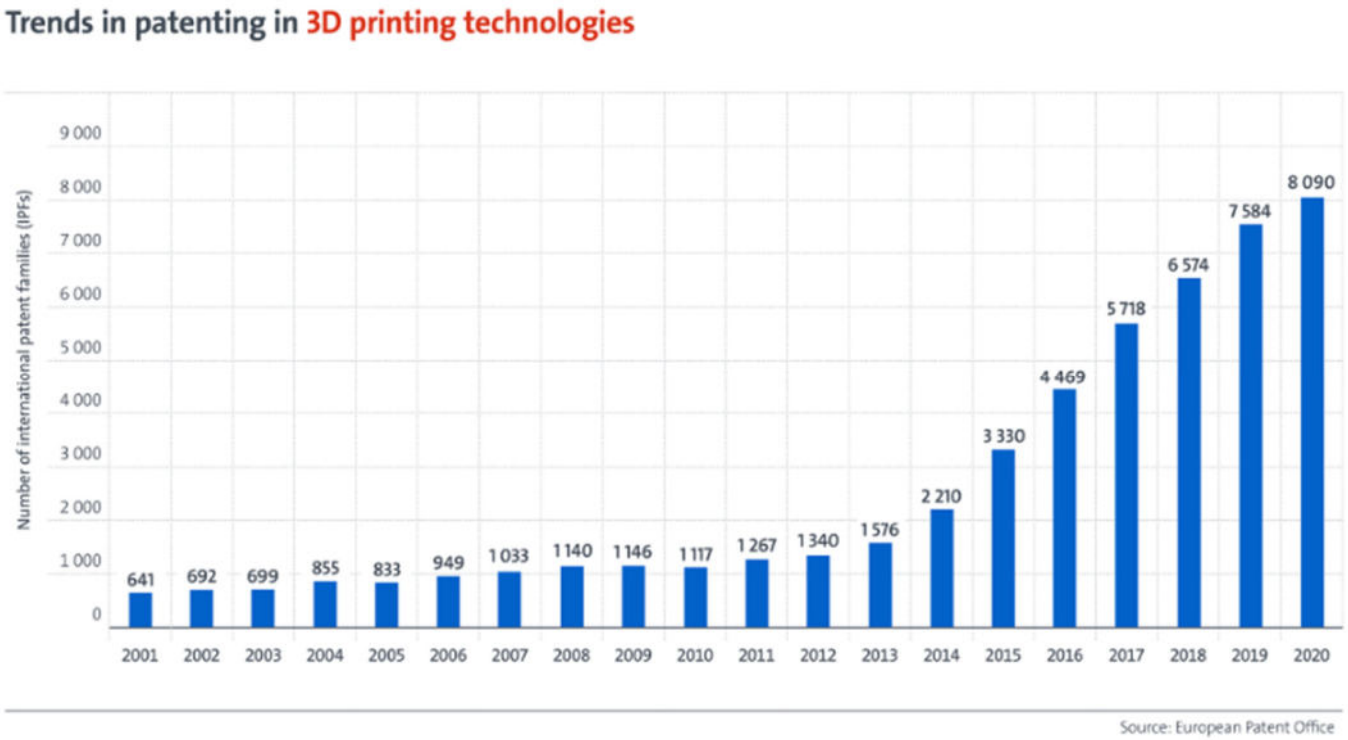
- Geography



Patent Landscape

The Process – Analysis of the results

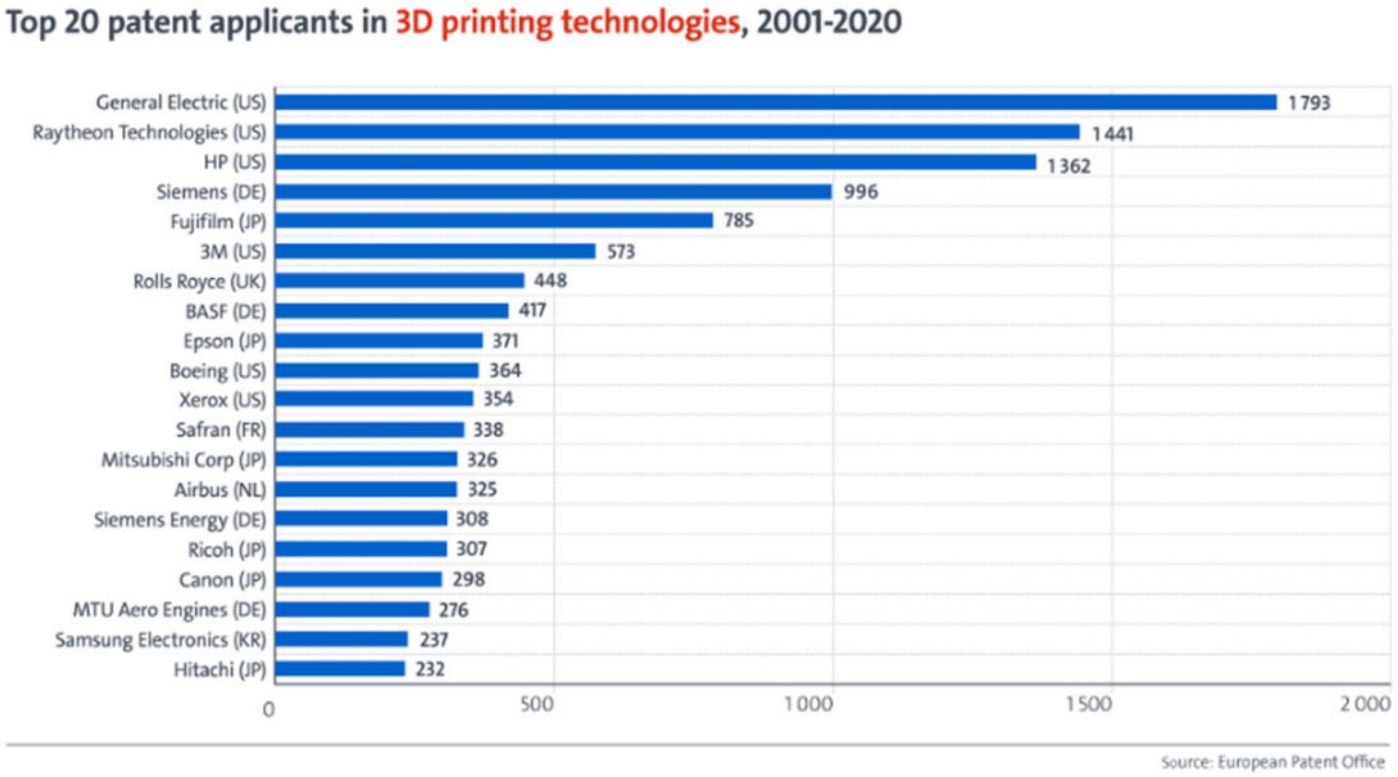
- Temporal trend of filing or publication of patents.



Patent Landscape

The Process – Analysis of the results

Top owners



Patent Landscape

The Process – Analysis of the results

Technology

	Emerging Memories				Established Memories	
	FeRAM *(or FRAM)*	MRAM	ReRAM *(or RRAM)*	PCRAM *(or PRAM, PCM)*	DRAM	Flash NAND
Nonvolatile	YES	YES	YES	YES	NO	YES
Endurance	High (10^{12})	High (10^{15})	Medium (10^{8})	Medium (10^{8})	High (10^{15})	Low (10^{5})
2012 latest technological node produced (nm)	130 nm	130 nm	R&D	45 nm	30 nm	20 nm
Cell Size (cell size in F^2)	Large (15-20)	Large/Medium (6-40)	Medium (6-12)	Medium (6-12)	Small (6-10)	Very small (4)
Write speed	Medium (100ns)	High (10 ns)	Medium (75 ns)	Medium (75 ns)	High (10ns)	Low (10 000 ns)
Power Consumption	Low	High/Low	Low	Low	Low	Very High
Cost ($/Gb)	High ($ 10 000/Gb)	High ($ 1000 – 100 /Gb)	R&D	Medium (few $/ Gb)	Low ($1/Gb)	Very Low ($ 0.1/Gb)

From Yole Développement « Emerging NVM » 2013 Report

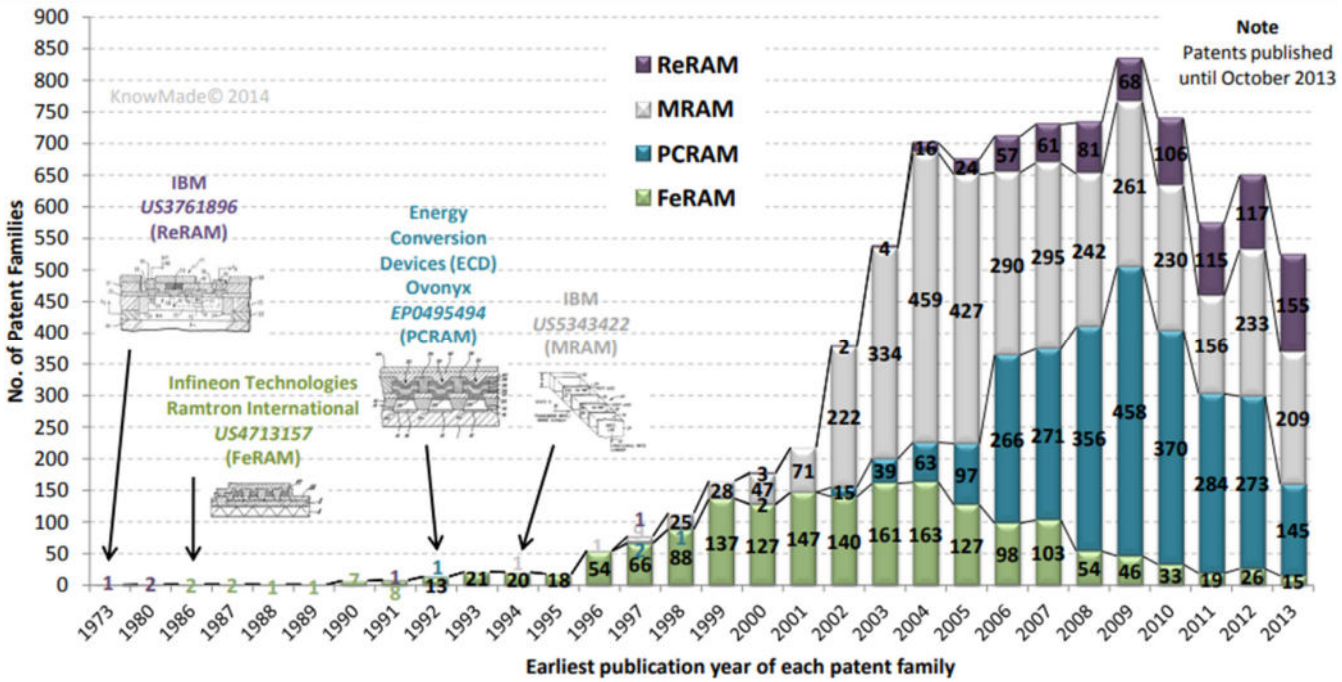
Legenda

FERAM = Ferroelectric RAM
MRAM = Magnetoresistive RAM
RERAM = Resistive RAM
PCRAM = Phase-change RAM
DRAM = dynamic RAM
Flash NAND = Flash RAM

Patent Landscape

The Process – Analysis of the results

Technology trends



8,661 patent families were published from 1973 to 2013 in emerging NVM technology, and 38% of them were published these last 5 years. The publication number of **ReRAM** patents is still increasing with more than 100 patents published every year these last 4 years. With the first patent published by IBM in 1994, the number of **MRAM** patent publications were maximum between 2003 and 2007 with a relative steady number of publications since 2010. The number of **PCRAM** patent publications, with first patent (on electrically programming memory) published by ECD and Ovonyx in 1992, is higher than 250 every year since 2006, with the highest number in 2009 (458). Most of **FeRAM** patents were published between 1999 and 2007 with a number of patent publications decreasing since 2008.

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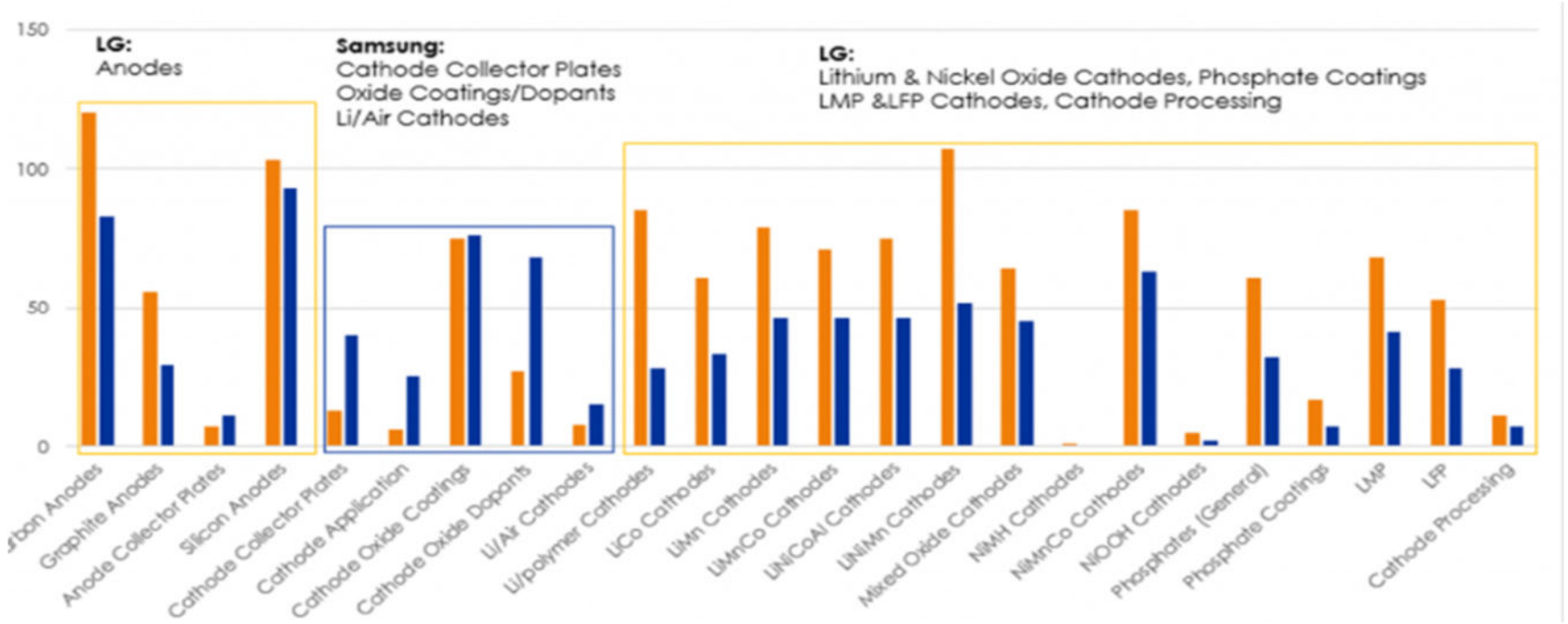
Patent Landscape

The Process – Analysis of the results

Company vs. Product



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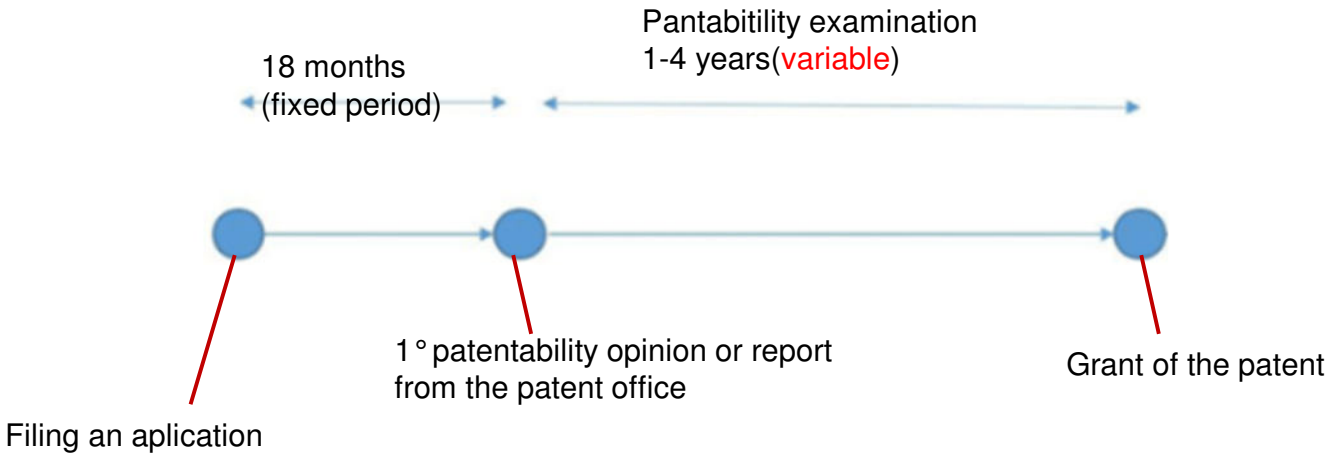
The Process – Analysis of the results

Time from submission of application to examination or granting (example Europe)



Patent Landscape

European Patent Statistics 2022 – TOP filing countries.

PATENT INDEX 2022 – ITALY

epo.org

TOP COUNTRIES FOR EUROPEAN PATENT APPLICATIONS[1]

TOP40		2022	Change
1	United States	48 088	2.9%
2	Germany	24 684	-4.7%
3	Japan	21 576	-0.4%
4	P.R. China	19 041	15.1%
5	France	10 900	1.9%
6	R. Korea	10 367	10.0%
7	Switzerland	9 008	5.9%
8	Netherlands	6 806	3.5%
9	United Kingdom	5 697	1.9%
10	Sweden	5 036	1.8%
11	Italy	4 864	-1.1%
12	Denmark	2 662	0.6%
13	Belgium	2 604	5.0%
14	Austria	2 388	3.4%
15	Finland	2 140	1.5%
16	Canada	2 001	-3.8%
17	Spain	1 925	-1.0%
18	Israel	1 741	1.2%
19	Chinese Taipei	1 474	-0.7%
20	Ireland	1 140	12.3%
21	Australia	1 003	-1.4%
22	Singapore	835	16.1%
23	India	817	1.4%
24	Norway	660	4.9%
25	Poland	615	17.8%
26	Türkiye	542	-26.3%
27	Liechtenstein	456	-7.5%
28	Barbados	344	15.8%
29	Luxembourg	343	-20.8%
30	Hong Kong SAR (China)	331	49.8%
31	Portugal	312	7.6%
32	New Zealand	230	2.7%
33	Brazil	220	20.9%
34	Czech Republic	219	9.0%
35	Saudi Arabia	206	-45.6%
36	Russian Federation	199	-26.8%
37	Greece	185	-8.9%
38	Cayman Islands	136	-54.2%
39	Slovenia	123	6.0%
40	Hungary	102	-14.3%

Source: EPO. Status: 30.01.2023.

[1] European patent applications include direct European applications and international (PCT) applications that entered the European phase during the reporting period. The geographic origin is based on the first-named applicant principle.

4

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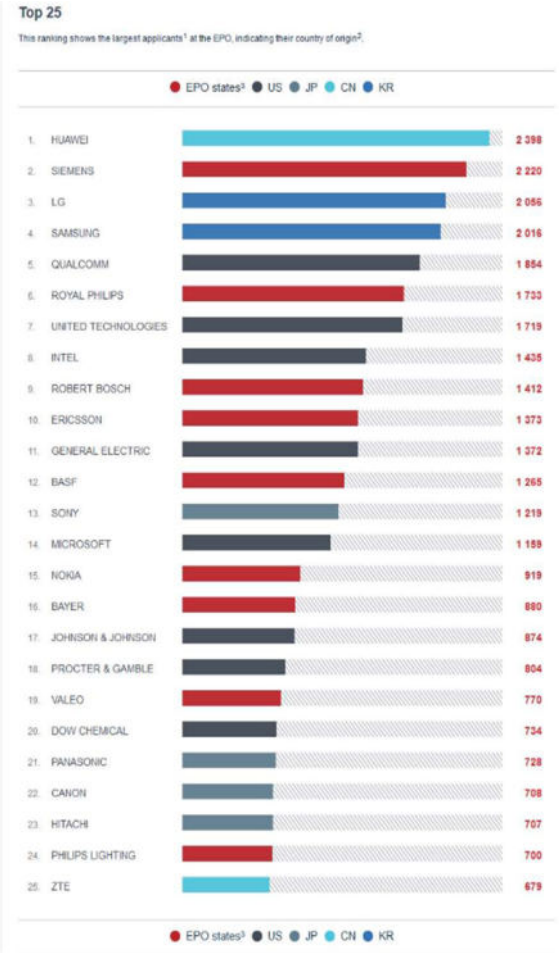
Patent Landscape

Patent Statistics
European patent
TOP owners
2021



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Patent Landscape

European Patent Statistics

	n° domande brevetto 2022 (in giallo le top10 per Paese)					Var % 2022 su 2021				
	Germany	Spain	France	Italy	Total	Germany	Spain	France	Italy	Total
Electrical machinery, apparatus, energy	2.015	146	777	234	13.951	-3,5%	-12,0%	17,2%	5,4%	18,2%
Audio-visual technology	371	11	335	16	5.700	11,1%	-38,9%	22,3%	-46,7%	8,1%
Telecommunications	218	18	156	34	4.244	-13,5%	28,6%	0,6%	-2,9%	-2,3%
Digital communication	602	29	340	39	16.705	-17,3%	52,6%	-9,8%	-2,5%	11,2%
Basic communication processes	101	2	39	21	1.131	-11,4%	0,0%	-25,0%	75,0%	11,4%
Computer technology	1.237	81	711	105	15.193	3,3%	35,0%	0,9%	11,7%	1,8%
IT methods for management	253	15	75	33	2.374	-4,2%	-25,0%	-5,1%	-32,7%	-3,1%
Semiconductors	357	6	245	65	4.366	16,3%	0,0%	17,2%	32,7%	19,9%
Optics	338	24	217	43	4.185	-17,6%	-11,1%	-11,4%	-15,7%	0,7%
Measurement	1.501	79	587	206	9.185	-4,6%	31,7%	5,0%	-7,6%	1,0%
Analysis of biological materials	188	33	105	12	1.322	5,6%	-8,3%	-4,5%	-53,8%	7,9%
Control	705	13	154	79	3.469	0,4%	-51,9%	37,5%	9,7%	2,4%
Medical technology	1.391	161	733	315	15.683	-1,6%	11,0%	-1,1%	-7,1%	1,0%
Organic fine chemistry	956	75	403	119	5.955	-8,6%	-6,3%	-2,9%	0,8%	-0,4%
Biotechnology	770	153	462	107	8.168	1,6%	9,3%	-4,7%	-7,0%	11,0%
Pharmaceuticals	613	181	507	210	9.310	-4,5%	-4,2%	3,3%	12,3%	1,0%
Macromolecular chemistry, polymers	737	23	239	114	4.150	-3,4%	-14,8%	14,4%	11,8%	-2,6%
Food chemistry	156	31	106	51	1.985	-2,5%	-13,9%	-1,9%	-20,3%	-7,5%
Basic materials chemistry	720	52	275	69	4.269	-14,6%	-13,3%	25,0%	9,5%	-6,0%
Materials, metallurgy	639	37	268	56	3.911	-4,8%	-17,8%	-13,3%	-23,3%	-3,4%
Surface technology, coating	448	20	222	62	2.775	0,7%	-25,9%	2,3%	-30,3%	3,7%
Micro-structural and nano-technology	30	1	12	9	141	76,5%	0,0%	-14,3%	12,5%	11,9%
Chemical engineering	747	47	270	149	4.067	-5,2%	9,3%	-0,7%	3,5%	-4,2%
Environmental technology	331	51	127	93	1.850	6,4%	82,1%	0,8%	0,0%	-1,5%
Handling	904	83	221	384	4.750	-10,3%	20,3%	-5,6%	-2,5%	4,2%
Machine tools	816	33	134	223	3.487	-10,0%	-2,9%	42,6%	4,7%	-1,3%
Engines, pumps, turbines	626	70	376	131	4.025	-12,2%	-32,0%	-3,8%	6,5%	-7,3%
Textile and paper machines	306	21	54	121	2.220	-13,3%	-4,5%	8,0%	6,1%	-2,1%
Other special machines	1.251	76	494	355	6.382	1,9%	1,3%	0,4%	9,6%	-1,8%
Thermal processes and apparatus	513	41	182	133	2.736	5,8%	-2,4%	19,0%	10,8%	4,1%
Mechanical elements	954	38	325	181	3.665	-7,4%	11,8%	-1,5%	-4,2%	-4,1%
Transport	1.877	101	1.005	362	9.272	-6,3%	-13,7%	-1,6%	-8,8%	-2,6%
Furniture, games	537	41	130	210	3.160	-9,4%	-26,8%	-17,2%	0,5%	-5,5%
Other consumer goods	492	42	219	191	4.811	-5,0%	-2,3%	-18,3%	-7,7%	-6,7%
Civil engineering	948	66	350	280	4.355	-3,4%	1,5%	5,1%	-2,4%	-3,6%
	36	24	45	52	508	-45,5%	166,7%	95,7%	15,6%	87,5%
	24.684	**1.925**	**10.900**	**4.864**	**193.460**	**-4,7%**	**-1,0%**	**1,9%**	**-1,1%**	**2,5%**

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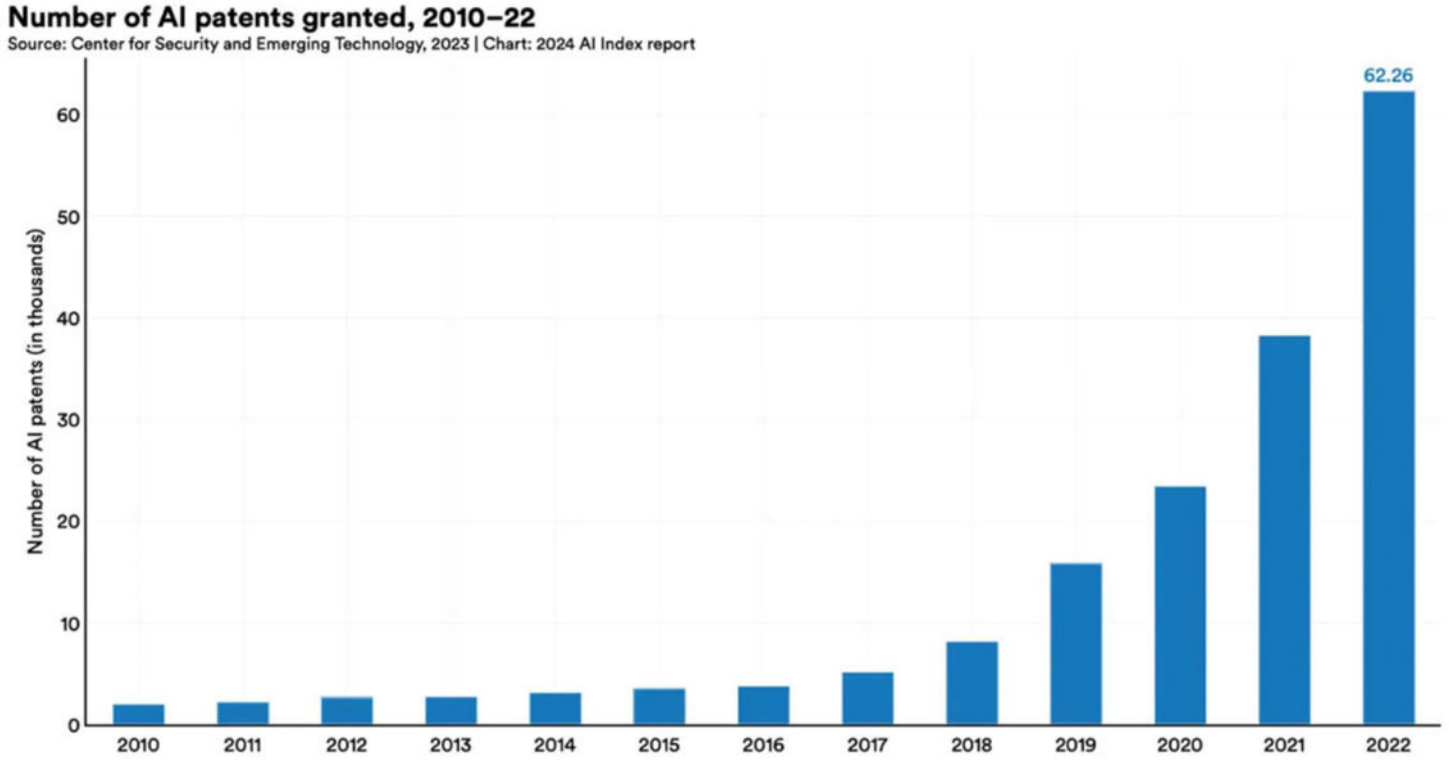
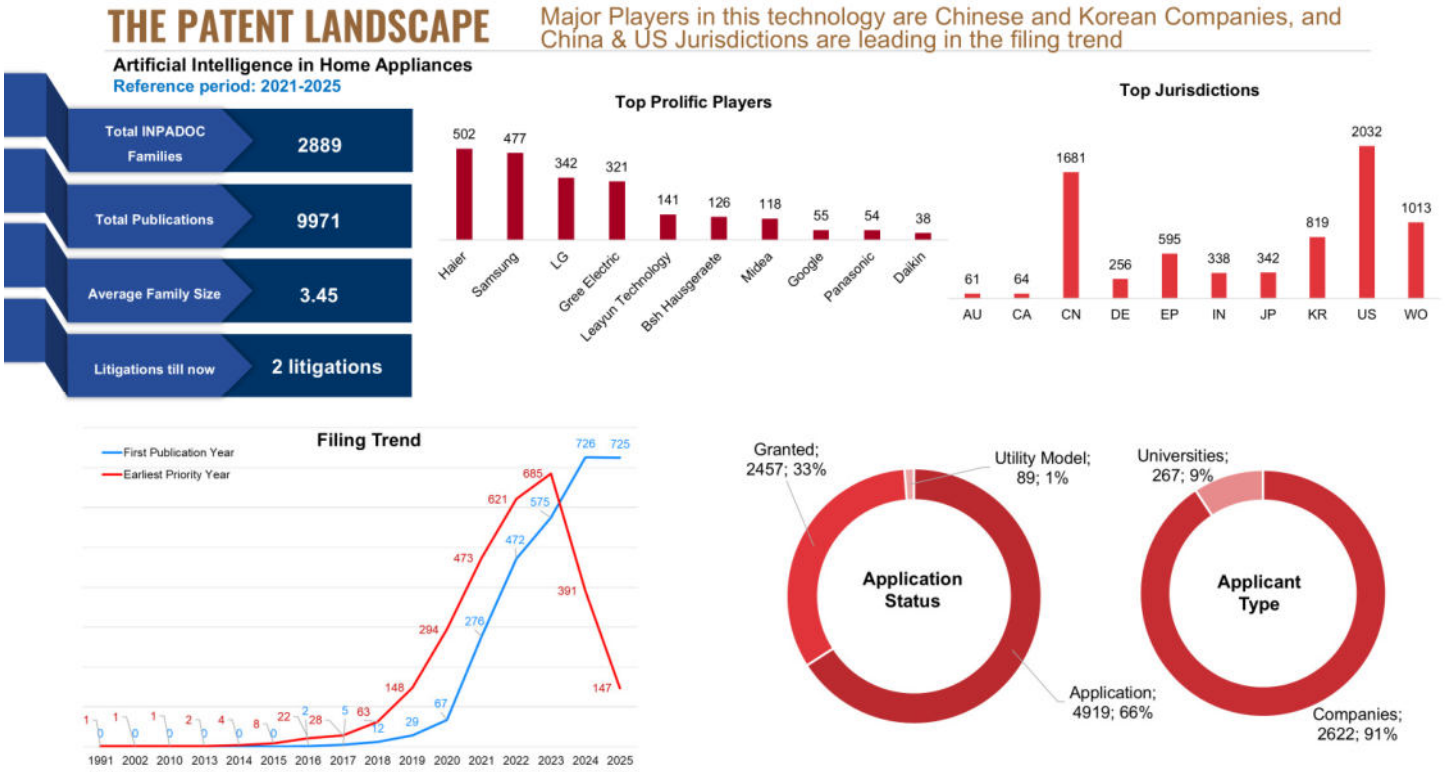
IA e Brevetti

IA e brevetti



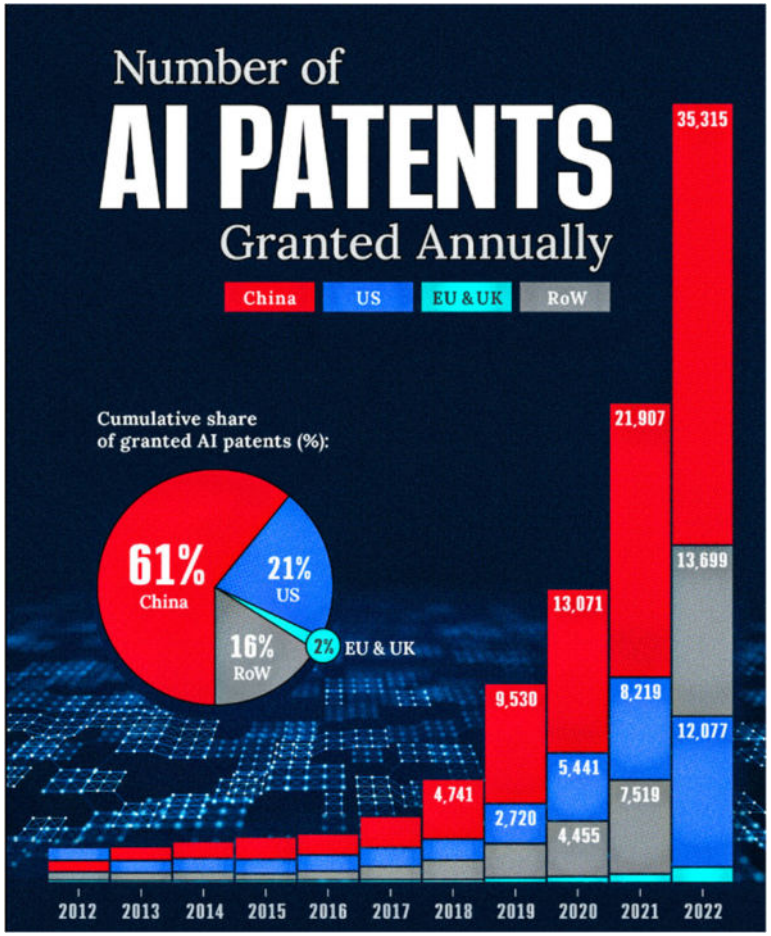
IA e Brevetti

IA e brevetti



IA e Brevetti

IA e brevetti



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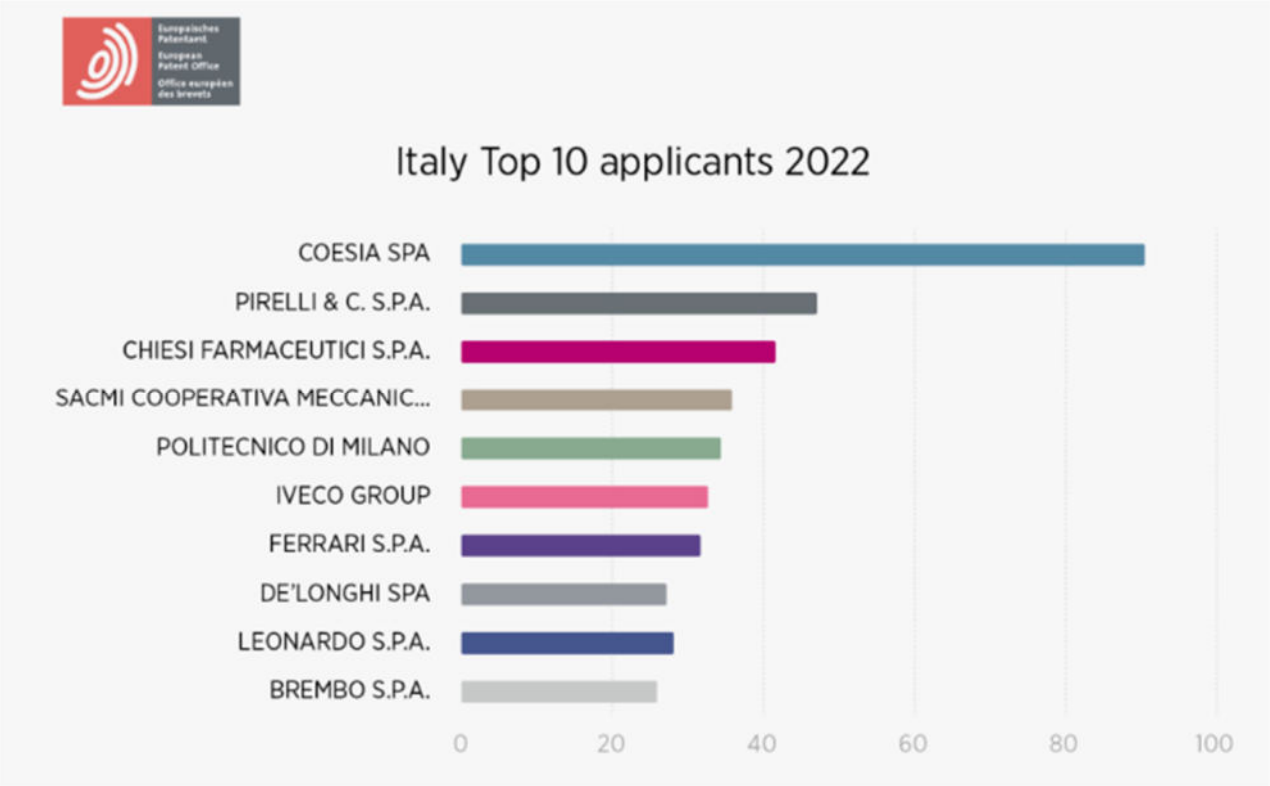
Patent Landscape

Italian patent Statistics – Granted patents



Patent Landscape

Italian patent Statistics 2025

Nel **2025** si è registrato in Italia un considerevole incremento sia delle domande di **brevetto per invenzione industriale** (**11.996**) sia delle domande di **brevetto per modello di utilità** (**2.073**).

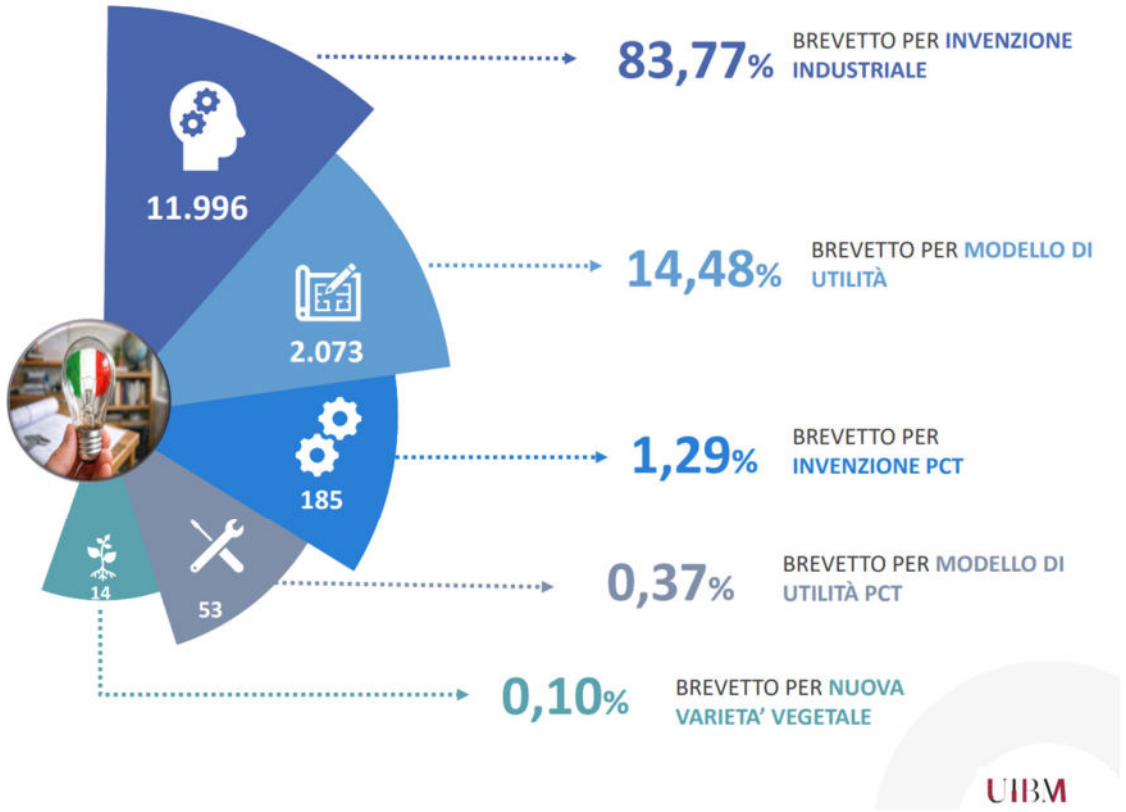
Stabili le richieste di apertura della **fase nazionale italiana da PCT** che hanno registrato la cifra di 238 depositi, suddivisi in **185 domande per invenzione industriale** e **53 domande per modello di utilità**.

Si aggiungono al totale **14** domande di **brevetto per nuova varietà vegetale**.

Per l'anno in oggetto, al pari del precedente, non è stata presentata alcuna richiesta di protezione per topografie di prodotti a semiconduttori.

Le **domande di brevetto per invenzione industriale**, tipologia principale di brevetto, risultano la categoria maggiormente rappresentata, con **l'84%** del totale delle nuove domande di brevetto presentate all'UIBM.

Ministero delle Imprese e del Made in Italy



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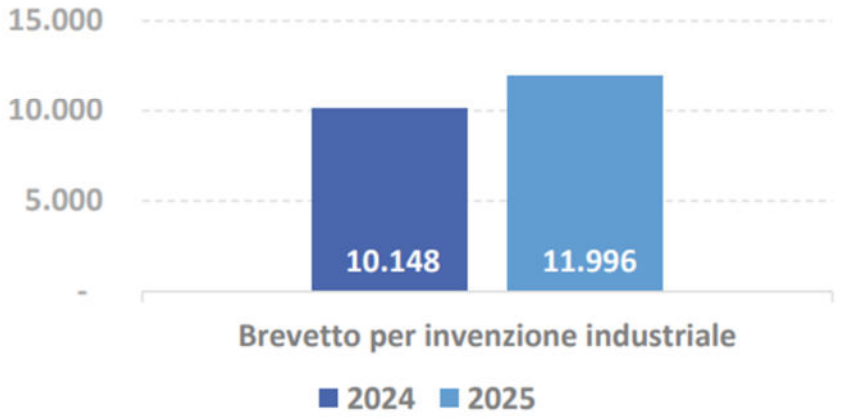
Patent Landscape

Italian patent Statistics 2025

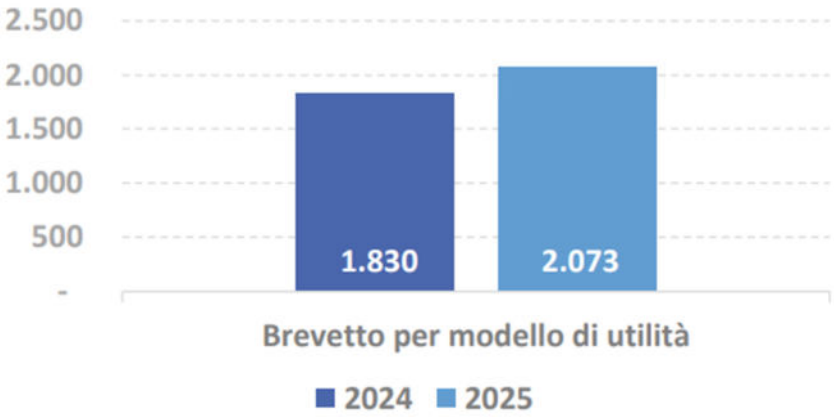
BREVETTO PER **INVENZIONE INDUSTRIALE**

+18,2% RISPETTO AL **2024**



BREVETTO PER **MODELLO DI UTILITÀ**

+13,2% RISPETTO AL **2024**



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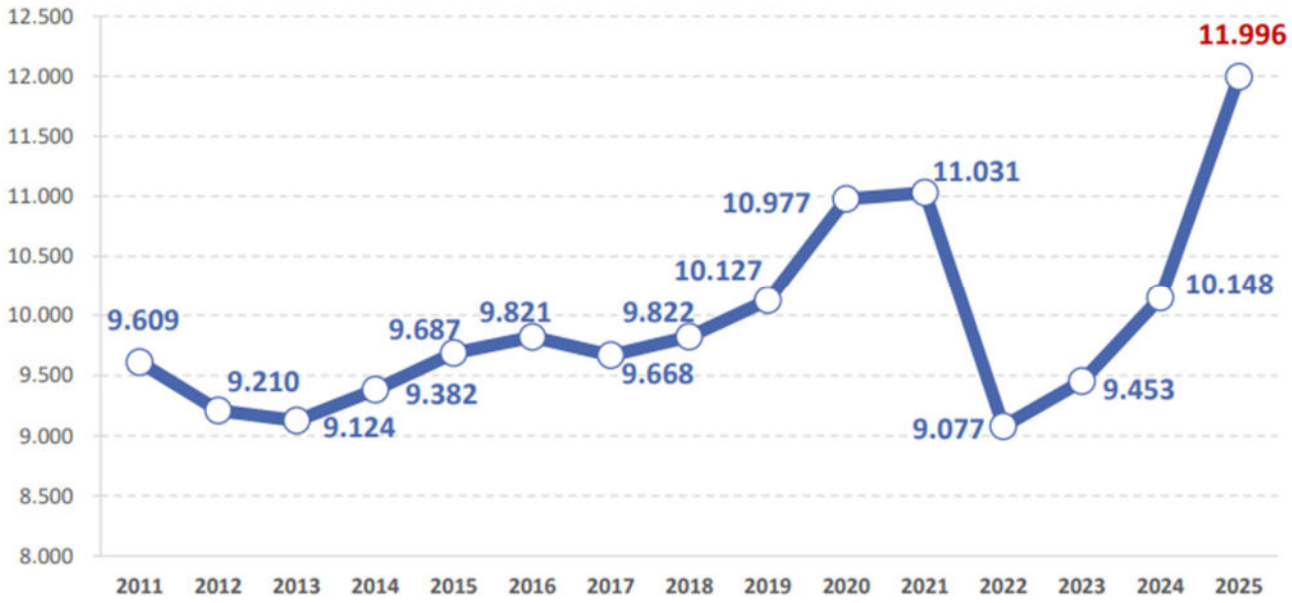
Patent Landscape

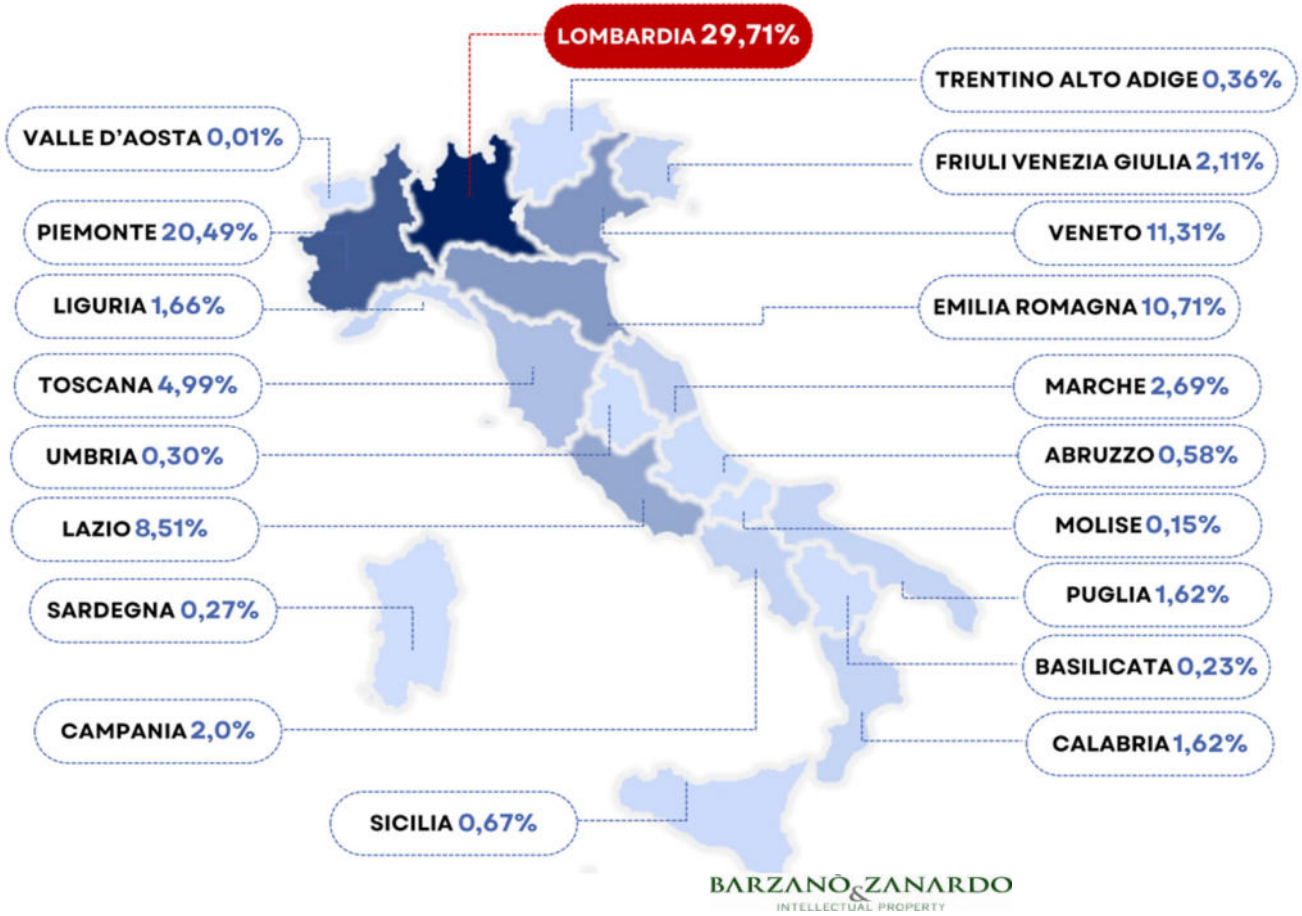
Italian patent Statistics 2025

ULTIMI 15 ANNI



Patent Landscape

Italian patent Statistics 2025

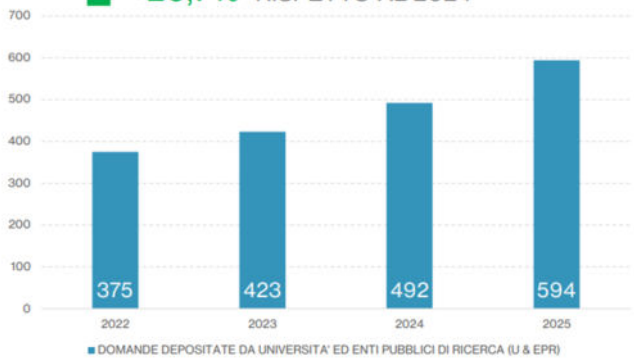


Patent Landscape

Italian patent Statistics 2025

594 DOMANDE DI BREVETTO PRESENTATE DA UNIVERSITÀ ED ENTI PUBBLICI DI RICERCA NEL 2025

+20,7% RISPETTO AL 2024



Ranking 2025	
1	Politecnico di MILANO
2	Fondazione Istituto Italiano di Tecnologia
3	Consiglio Nazionale delle Ricerche - CNR
4	Politecnico di TORINO
5	Università degli Studi di BOLOGNA
6	Università degli Studi di PADOVA
7	Università degli Studi di MILANO
8	Università degli Studi di TORINO
9	Università degli Studi di ROMA "La Sapienza"
10	Università degli Studi di GENOVA

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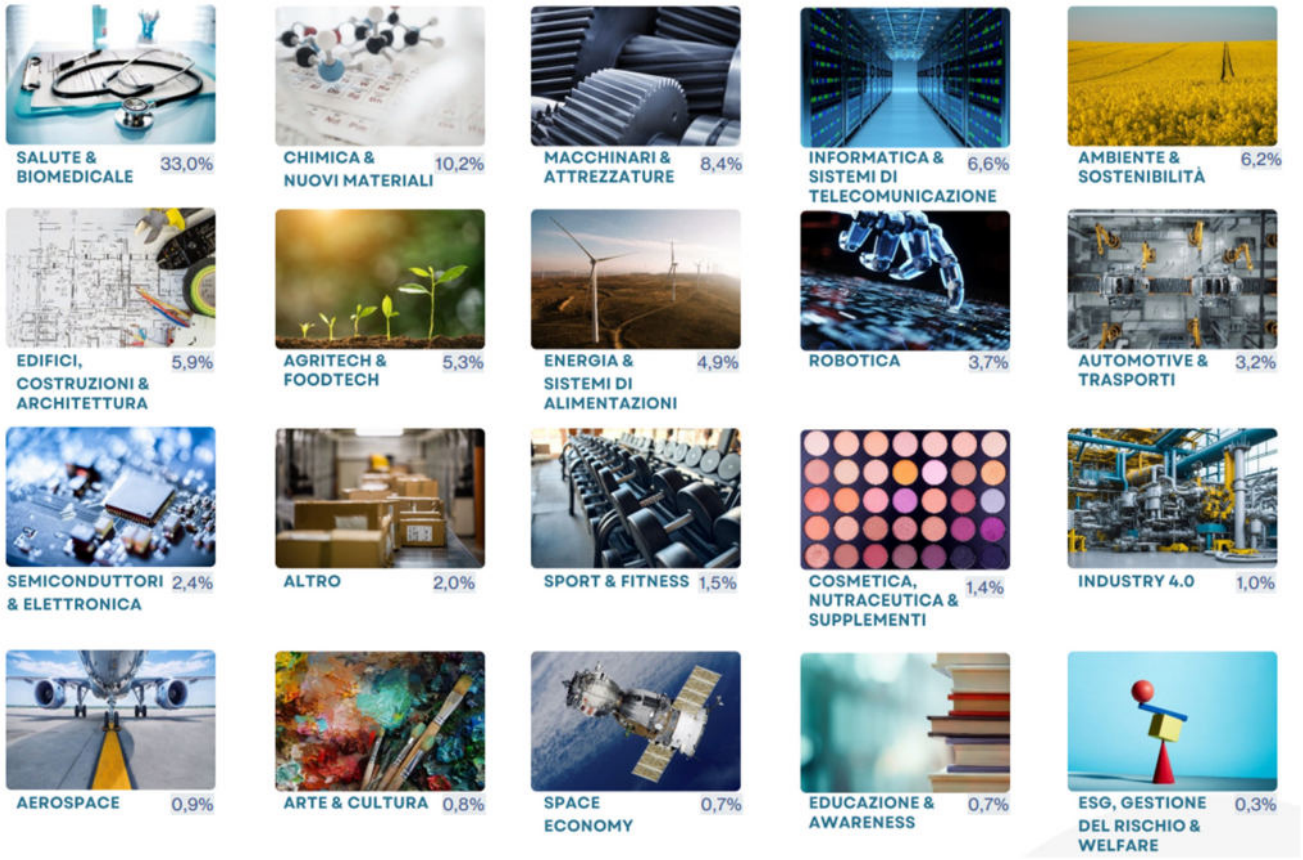
Patent Landscape

Italian patent Statistics 2025 – Main Techological field



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GRAZIE PER L'ATTENZIONE!

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