



Rospatent

Core Element
in Strengthening
the Technological
Sovereignty

ROSPATENT FACTS & FIGURES

BUILDING NEW
TECHNOLOGICAL
RUSSIA

Annual Report '22



Dear colleagues,

The President of the Russian Federation Vladimir Putin indicated true technological sovereignty as one of the key priorities for State development. He particularly emphasized the need to build all spheres of life at a qualitatively new technological level and develop national technological solutions that will allow us to create the goods and services of the next generation.

Presenting the Annual Report of Rospatent, I would like to note that 2022 was marked by systematic and stable efforts to follow the instructions of the President and the Government of the Russian Federation and to perform duties related to the Rospatent's competence.

Last year was quite challenging. Our economy was affected by various factors, including unfavorable global market conditions and international tension.

Current challenges forced us to act swiftly and efficiently. Despite the objective difficulties, we implemented all the planned activities, launched the mechanisms to improve the competitiveness of the advanced technology sector, as well as strengthened its leading role in the economy.



Yury Zubov
Head of the Federal Service
for Intellectual Property (Rospatent)



In 2022, Rospatent established the Advanced Technologies Support Center, which is successfully functioning within the Federal Institute of Industrial Property structure. The Center's services help Russian companies to carry out a patent analysis of technologies and goods that have left Russia, to conduct a preliminary assessment of the created technical solutions' patentability and to provide recommendations on their comprehensive protection and commercialization. The Center prepared specialized opinions on promising areas related to pharmaceuticals, medicine, biotechnology, IT, aviation and transportation. With the Center's assistance, companies filed 37 applications for inventions and obtained 25 patents.

Russia is ranked in the world's top 10 by patent filings. Every year Rospatent receives applications for tens of thousands of advanced solutions that are examined in adequate timelines and at a high quality. The ongoing digital transformation of Rospatent enabled us to ensure the accessibility and convenience of our services.

Digital services of our IP Office are available 24/7 on the Public Services Portal of the Russian Federation and the Rospatent website. Out of all applications, 78% are filed online, and e-filing of trademark applications amounts to 92%.

Science and business communities have already appreciated the usability of our Search Platform comprising a digitized world patent collection. We receive about 6.7 million requests to the Platform every week and this number continues to grow.

Rospatent keeps leading the work on 3D models and 3D images, and aims at further development of the Standard for applications comprising 3D visual representations. We intend to share our advanced expertise with our partners from the Eurasian Economic Union and to further develop close cooperation with the Eurasian Patent Office.

In 2023, Rospatent will continue to expand the coverage of its public services, including digital services on the Unified Digital Platform of the Russian Federation (GosTech).

The IP Office plays an important role in the implementation of the State's commitments to support young scientists and universities, as well as to build innovative infrastructure to boost scientific research.

Upon the instructions of the Russian Government, Rospatent is launching a system of expert and analytical support for large high-tech projects with a pulling effect.



This year Rospatent, in collaboration with the Ministry of Education and Science of Russia, will launch a pilot project within the world-class scientific and educational centers, covering the process of creating innovative products from an idea to production.

The President of the Russian Federation set the task to develop the system of IP-backed loans.

In collaboration with the Bank of Russia, the Ministry of Economic Development of Russia and the Moscow Government, Rospatent continues to work on building a convenient environment for providing technology companies with IP-backed loans. The specialized Evaluation Center was established within the Federal Agency for Legal Protection of the Results of Intellectual Activity with Military, Special and Dual Purposes (FAPRID) and the new federal evaluation standard was adopted to create a transparent IP evaluation framework. We are also further developing the methodological recommendations and national database of average industry royalty rates when determining the license payments.

Rospatent focuses on the creation of a friendly regulatory environment related to IP. The implementation of the Action Plan (Roadmap) for the Business Climate Transformation is ongoing with the support of the Federation Council of the Federal Assembly of the Russian Federation.

2022 brought several important changes to the Russian tax legislation for companies investing in R&D. These measures are designed to ease the use of the results of intellectual activity for the business community, boost economic returns, encourage patenting activity and increase investments in science-intensive technologies at the local level.

In 2023, natural and self-employed persons will have the opportunity to obtain legal protection of a personal brand to effectively promote their goods and services on Russian and international trading platforms.

Our task is to assist national businesses in creating their own technological solutions, developing and integrating innovations to become confident players on the IP market.

In 2023, Rospatent will continue to provide reliable rights protection for our inventors, innovators and companies both in Russia and abroad. For that, we have the required human resources, competencies, and tools.

I am confident that our joint efforts will significantly contribute to the tasks set by the country's leadership and we will appropriately respond to the challenges of the time.



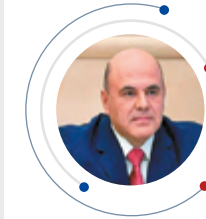
→ **Path to Technological Sovereignty**



IP rights play a crucial role in promoting innovations and protecting investments

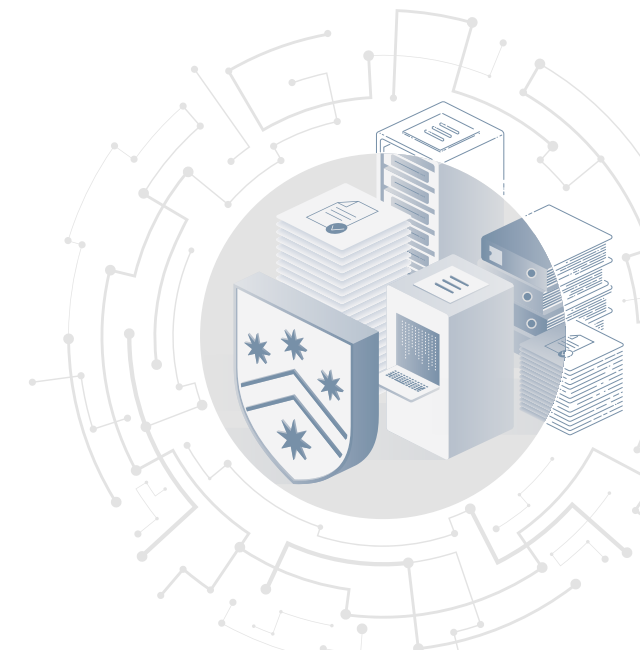
IP rights act as an incentive for creativity and are the first step towards technological sovereignty

The innovative activity is characterized by the number of applications for registration of the results of intellectual activity, while the granted patents prove the international novelty of the solutions



Rospatent's work significantly contributes to strengthening Russia's technological sovereignty and searching for breakthrough solutions

Prime Minister of the Russian Federation **Mikhail Mishustin**





01

→ Inventions



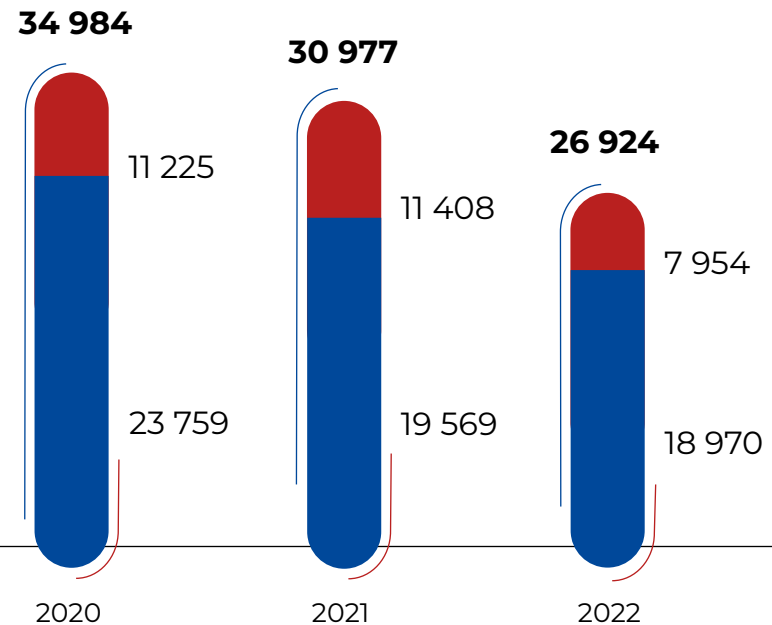
Russian Inventions as a Path to Import Substitution

Universities are the top national filers

→ Invention application trends in the last 3 years

Filings in 2020-2022

■ non-resident applications ■ resident applications



~27 000 invention applications filed in 2022

70% (18 970 applications) filed by residents

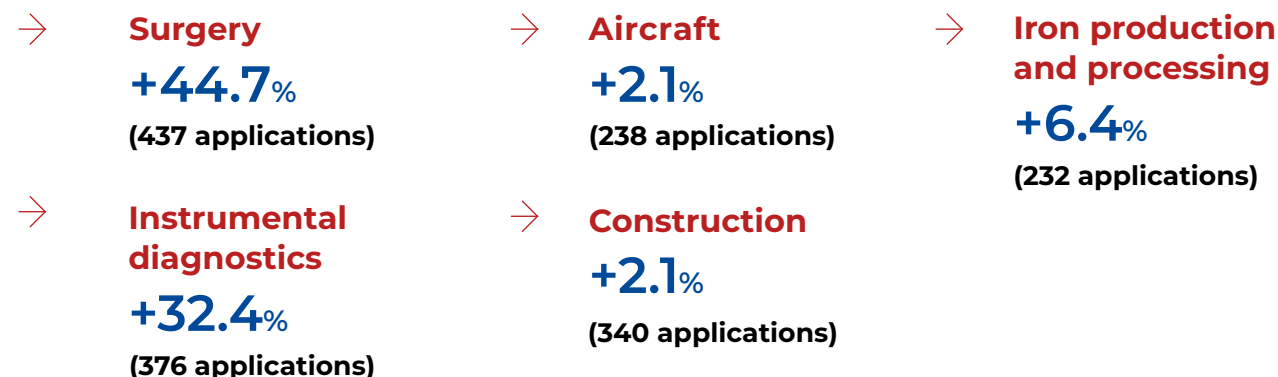
Applicants' patenting activity decreased in contrast to 2021:

by 3.1% in the case of residents

by 30.3% in the case of non-residents

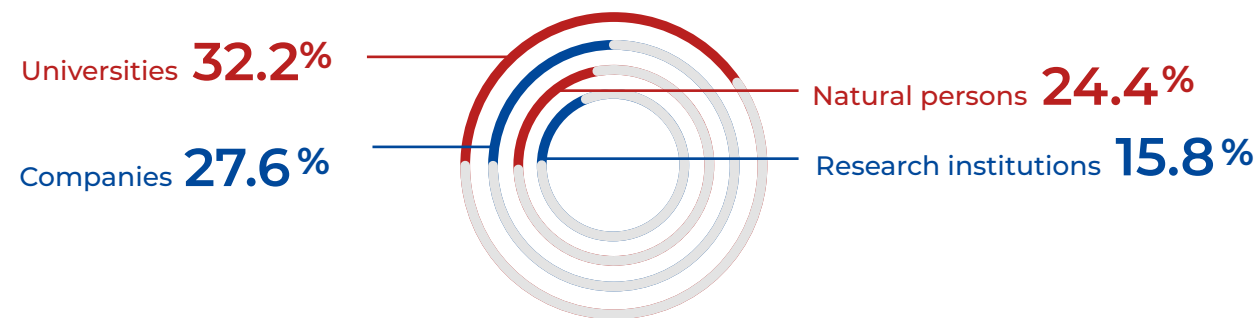


In comparison with 2021, applicants' patenting activity increased in certain technological areas, mainly due to resident applications



The share of non-resident applications in the areas shown above decreased significantly

**Patenting of inventions
Share of total national applications**



The number of disposals of rights to inventions decreased by **15.1%** in 2022

Universities and research institutions **concluded 8.2%** of the total number of contracts on the alienation of the exclusive rights to inventions



Top 3 filers

Universities	2021	2022
Ural Federal University	63	103
Kuban State Agrarian University	141	92
Perm State University	62	85
Research institutions	2021	2022
S. Fyodorov Eye Microsurgery Federal State Institution	119	140
Federal Scientific Agroengineering Center VIM	118	72
Tomsk National Research Medical Center of the Russian Academy of Sciences	60	62
Companies	2021	2022
State Atomic Energy Corporation Rosatom	164	158
PJSC Tatneft	150	147
PJSC Severstal	29	67



Top 10 Russian regions by filings origin

Region	2021	2022
MOSCOW	5 163	5 115
SAINT PETERSBURG	1 741	1 760
MOSCOW REGION	1 460	1 081
REPUBLIC OF TATARSTAN	726	735
SVERDLOVSK REGION	538	624
NOVOSIBIRSK REGION	518	521
KRASNODAR TERRITORY	483	480
REPUBLIC OF BASHKORTOSTAN	457	430
PERM TERRITORY	397	428
SAMARA REGION	386	373

In Russia, the examination of applications for inventions takes **4 months** on average

→ **80% faster than IP5**
 (IP offices of the People's Republic of China, Japan, Republic of Korea, the USA and the EU)

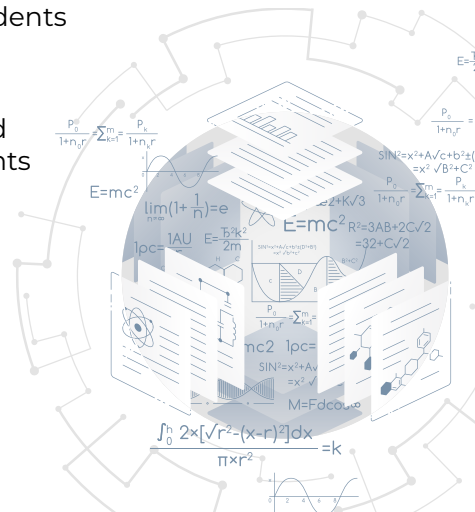
In 2022, Rospatent granted **23 315** patents

259 020
 invention patents
 in force as of the end of 2022



165 932
 patents
 owned by residents

93 088
 patents owned
 by non-residents



Top 10 inventions of 2022



01. Insulin pills
 (medicine, medical equipment, pharmaceuticals, 2753018)
 Lobachevsky State University of Nizhny Novgorod



02. COVID-19 and influenza vaccine
 (organic and inorganic chemistry, biotechnology, agriculture, 2751485)
 Gamaleya National Research Center for Epidemiology and Microbiology



03. Nuclear power plant with ceramic fast neutron reactor. Improving safety in case of an accident and enhancing the efficiency of nuclear power plants
 (power engineering, construction, 2755261)
 Obninsk Research and Production Enterprise Technologiya



04. Method for information recording inside diamond crystal
 (nano industry technologies, 2750068)
 PJSC Alrosa, Microlaser LLC



05. Deepfake identification. Determining synthetic changes of a person's face on video or photo
 (digital technologies, electronics, communication systems, 2774624)
 PJSC Sberbank of Russia



06. Hydrogen-powered unmanned aerial vehicle
 (transport, aviation and space technology, 2764049)
 Mechanical Engineering Research Institute of the Russian Academy of Sciences



07. Protection of information transmission
 (digital technologies, electronics, communication systems, 2774743)
 JSC Concern Sozvezdie



08. Notification system for railway workers about the approaching train
 (environmental protection, ecology, 2763069)
 JSC NIIAS



09. Flexible high-temperature superconductor
 (metallurgy, mechanical engineering, industrial equipment, 2761855)
 S-Innovations LLC



10. Radionuclide super-capacitor power source. Eco-friendly energy source. Production does not pollute the environment with radioactive isotopes
 (organic and inorganic chemistry, biotechnology, agriculture, 2777413)
 JSC Science and Innovation



02

Utility Models

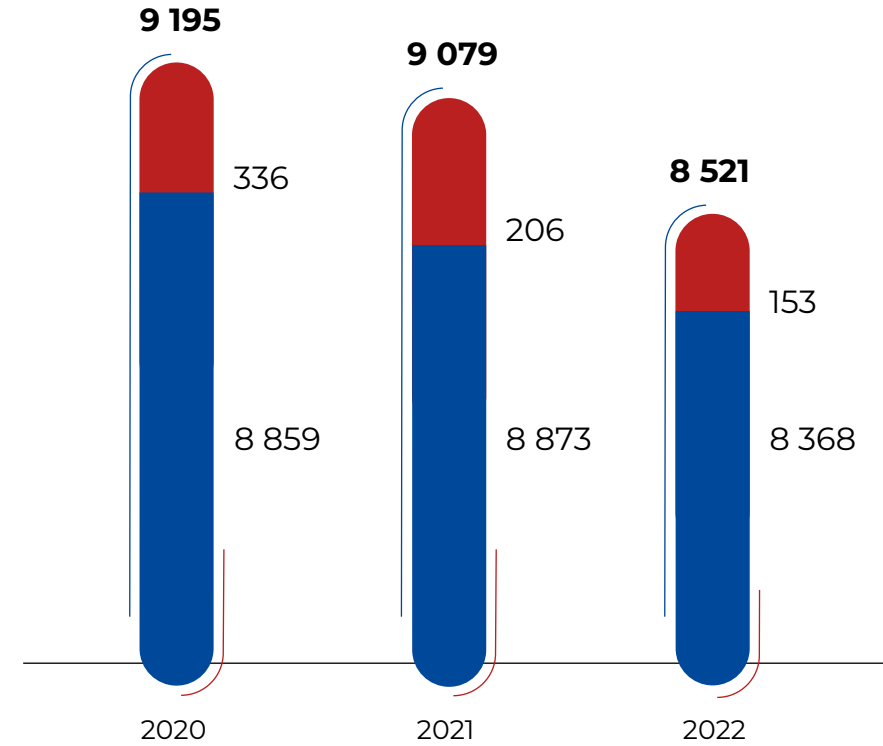
→ Utility Models



Utility model application trends in the last 3 years

Filings in 2020-2022

■ non-resident applications ■ resident applications



8 521
utility model applications filed in 2022

98.2% (8 368 applications)
filed by residents

In 2020-2022, resident filings remain stable, with more than **8 000** applications annually



Applicants' patenting activity increased in certain technological areas, mainly due to resident filings

→ **Construction**
+13.7% (381 applications)

→ **Machines**
+19.4% (148 applications)

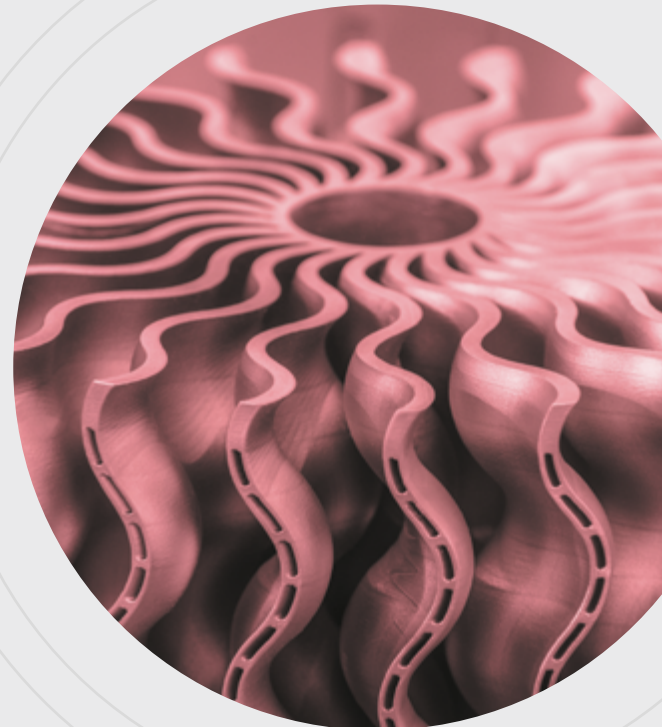
→ **Metallurgy**
+7.9% (96 applications)

→ **Production of metal and alloy products**
+9.6% (160 applications)

→ **Crop production**
+12.9% (105 applications)

→ **Aircraft**
+2.3% (88 applications)

→ **41 062**
utility model
patents in force
as of the end of 2022



Top 3 filers

Universities	2021	2022
Ulyanovsk State Agrarian University named after Stolypin	190	223
Volgograd State Technical University	94	122
Bryansk State Agrarian University	85	102
Research institutions	2021	2022
All-Union Research and Development Centre for Transportation Technology	54	28
Federal Scientific Agroengineering Center VIM	9	17
Federal State Unitary Enterprise Dukhov Automatics Research Institute	32	16
Companies	2021	2022
JSC Ruzaevsky Chemical Engineering Plant	72	95
RAIL520 IP LLC	74	77
State Atomic Energy Corporation Rosatom	43	53



03



→ Industrial Designs



→ Protection of unique industrial designs

6 898
industrial design applications filed in 2022



4 233
resident applications

2 665
non-resident applications



The number of disposal of rights to industrial designs increased by **20%** in 2022

44 688 industrial design patents in force as of the end of 2022



→ Computer Programs, Databases, Integrated Circuit Topographies



Public policy focused on digitalization and independence from foreign States is a driver of the national IT solutions

In comparison with 2021:

- **+20%** applications for computer programs, databases and integrated circuit topographies filed **by all the categories of applicants** **270 271** certificates for computer programs, databases and integrated circuit topographies in force as of the end of 2022
- Resident applications form **almost 100%** of all filings **4 410** IP rights registered online
- The market of the rights to computer programs, databases and integrated circuit topographies **increased by 5.7%**

Impact of the computer programs registration:

- 01** Protection on the software market
- 02** Fulfilment of the mandatory requirements for the public sector
- 03** Capitalization growth due to the reflection of rights in the balance
- 04** Tax exemption opportunities



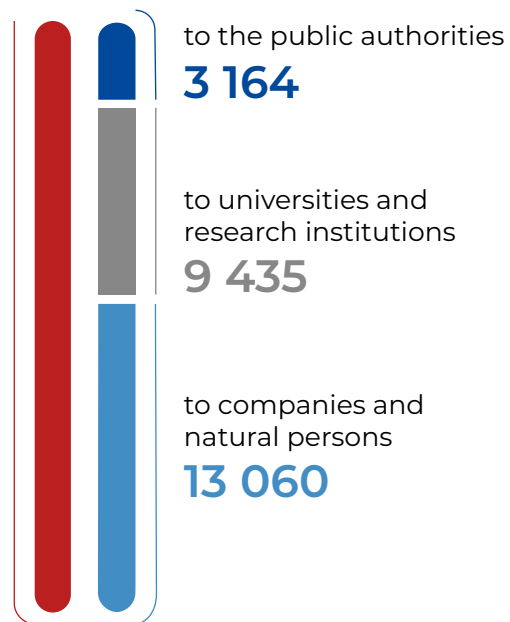
→ **Certificates issued for computers programs, databases and integrated circuit topographies in 2021-2022**

2021 год

25 659

total

of these:

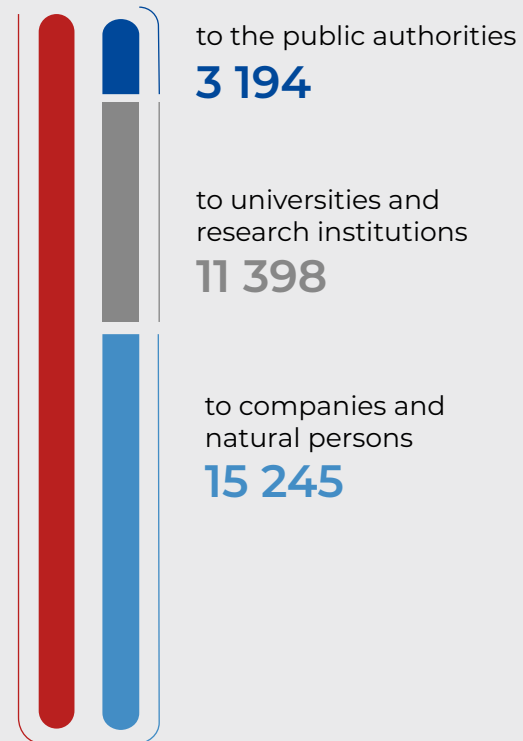


2022 год

29 837

total

of these:



+16.3% certificates issued in contrast to 2021

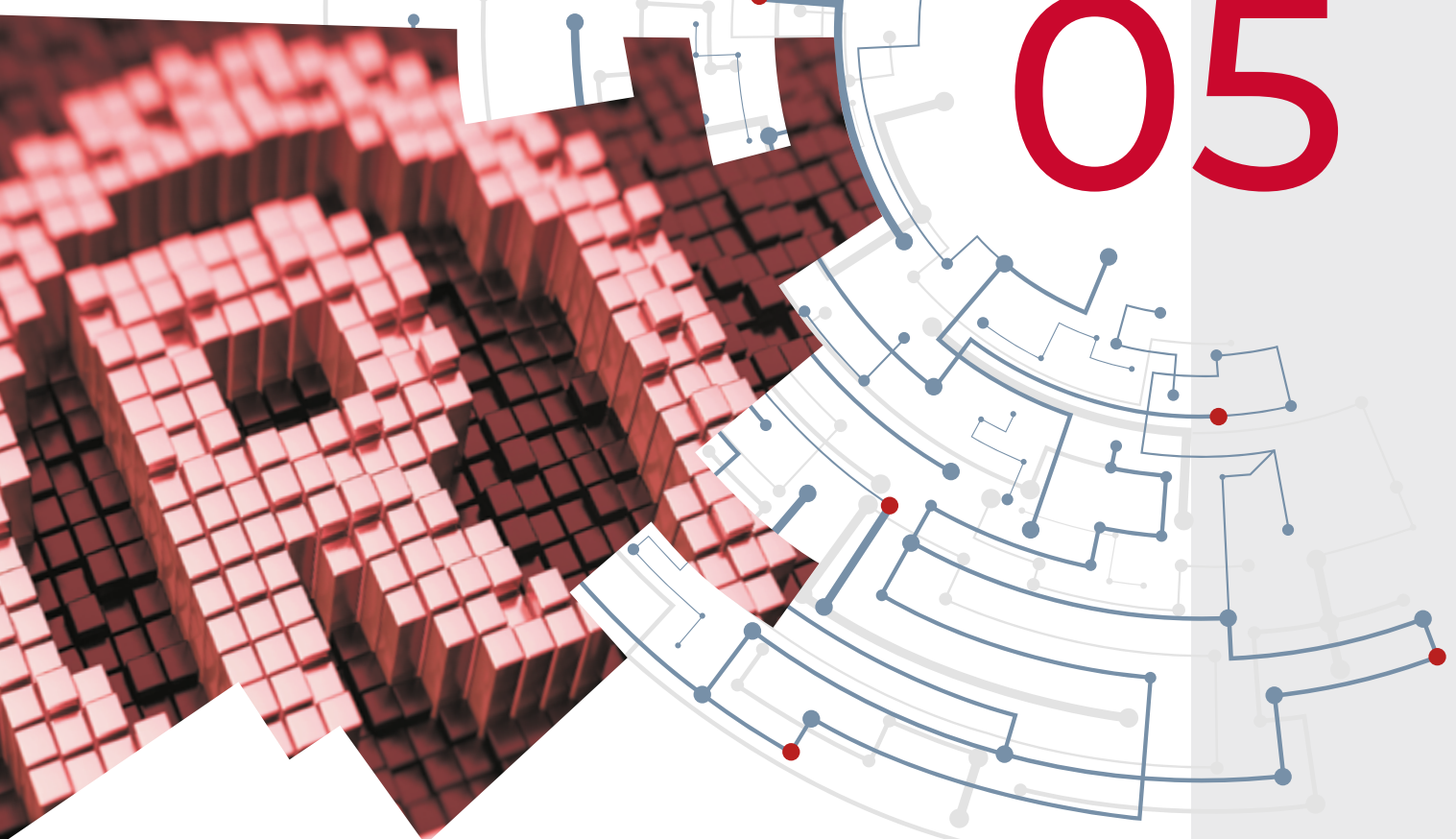


Top 5 filers

Universities and research institutions	2021	2022
Saint Petersburg State University of Aerospace Instrumentation	212	396
Stavropol State Agrarian University	111	182
Peter the Great Saint Petersburg Polytechnic University	155	179
Orenburg State University	63	137
Saint Petersburg Electrotechnical University	136	135
Companies	2021	2022
PJSC Tatneft	144	328
JSC Russian Railways	319	297
State Atomic Energy Corporation Rosatom	153	130
JSC Concern Sozvezdie	33	99
PJSC Sberbank of Russia	21	57



05



→ Brands Protection



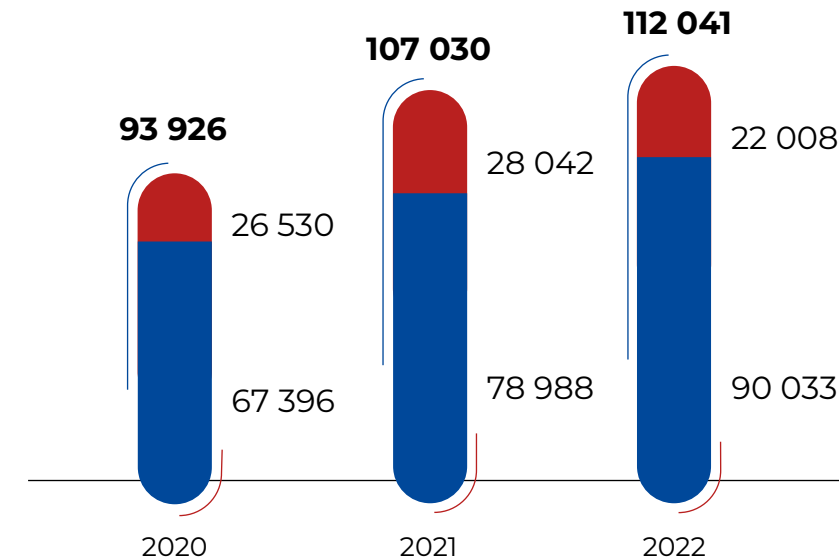
5.1 Trademarks

Registered trademark guarantees successful business. It assists the company to be protected against fake products and to promote its goods and services on the market. Furthermore, it helps the State to combat counterfeiting

→ Trademark application trends in the last 3 years

Filings in 2020-2022

■ non-resident applications ■ resident applications



Trademark filings are growing steadily

112 041 trademark applications filed in 2022



90 033 (80,4%) applications filed by residents

22 008 (19,6%) applications filed by non-residents

+4,7% overall growth in trademark filings in contrast to 2021

More than 92% of trademark applications are filed online



What types of products became more attractive to the business community?

Ranking	Class of the International Classification of Goods and Services (Nice Classification)	Share of the national filings (%)
1	25 (clothing, footwear)	18.8
2	09 (computer software, electronics, smartphones, etc)	16.7
3	03 (household chemicals, perfumery, cosmetics)	15
4	30 (confectionery, bakery products, flour and cereals)	13.5
5	05 (pharmaceuticals)	13.5



→ **During the last 3 years, trademark registrations are growing by 14-16% on average**

574 959 trademark certificates in force as of the end of 2022



438 582 owned by residents

136 377 owned by non-residents



Expanding trademark registration opportunities

Since June 2023 individuals, including natural and self-employed persons, may register their trademarks



In Russia, 6 million persons were registered as self-employed in 2022



Trademark license contracts are steadily growing in numbers despite the economic challenges

Trademark market expansion

+2.3% in contrast to 2021

+19.0% in contrast to 2020

18.7K commercial contracts concluded in 2022



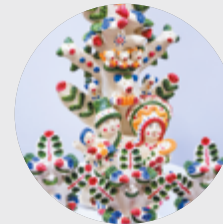


5.2 Appellation of Origin and Geographical Indications: Promoting the Attractiveness of the Unique Russian Regions

Registration of national brands is required to boost economic growth and tourism at the local level. Goods protected with a registered appellation of origin (AO) or geographical indication (GI) serve as "business cards" of the relevant geographic area.

GI and AO registration allows securing the right to produce the local traditional goods exclusively for producers located in the regions.

- **Rospatent has registered more than 300 AOs and GIs since 1994.** The AO registration was additionally boosted by the implementation of the instructions given by the Chair of the Federation Council of the Federal Assembly of the Russian Federation Valentina Matvienko in 2017.
- Exhibition entitled Regional Brands of Russia, jointly organized by the Federation Council and Rospatent in December 2022: **more than 250 goods from 40 regions of the country**



51 AO applications and 47 GI applications filed in 2022
8 AOs and 19 GIs registered

Among AOs and GIs registered in 2022:

VOLOGODSKIJ IVAN-CHAJ (tea)
 Certificate No. 291
 Vologda Region

SEMIKARAKORSKAYA KERAMIKA (ceramics)
 Certificate No. 298
 Semikarakorsk urban settlement, Rostov Region

UGLICH SYR (cheese)
 Certificate No. 290
 Yaroslavl Region

KHLUDNEVSKAYA GLINYANAYA IGRUSHKA (clay toys)
 Certificate No. 282
 Duminichsky district, Kaluga Region

MORDOVSKIJ MORENYJ DUB (wooden goods)
 Certificate No. 295
 Republic of Mordovia

URYUPINSKIE PUHOVYE IZDELIYA (down products)
 Certificate No. 299
 Uryupinsk, Volgograd Region

→ **Since 2019 GI has become a new object for IP rights protection in Russia (introduced by Federal Law No. 230-FZ)**

→ **36 GIs registered in 2020-2022**

34 resident registrations **2** non-resident registrations



The wide use of GIs, among other benefits, will help to increase the visibility of the region, attract investments, boost tourism and create new jobs

Chair of the Federation Council of the Federal Assembly of the Russian Federation
Valentina Matvienko





06

→ Rospatent Digital Transformation



New technologies provide new opportunities



Despite the geopolitical situation, the pandemic and other disruptions, all targets for digital transformation have been exceeded. Most noticeable is that we witness a significant increase in the share of socially important public services provided online

Deputy Prime Minister of the Russian Federation
Dmitry Chernyshenko



E-filing for all types of IP rights protection is increasing. In 2022, it amounted to more than

of all applications

78%

We provided a feedback option to interact with our applicants online via the digital platform. In 2022, we received 240 feedbacks and requests

→ Under the implementation of the Office's Digital Transformation program 2022-2024, Rospatent introduced



9 State information systems



5 Information systems



→ Patent Information search became more accessible

In 2022, Rospatent launched its Search Platform



smart search for patent texts

open data of the **158 million** patents worldwide

24/7 publicly available free of charge

6,7 million weekly requests

→ Impact



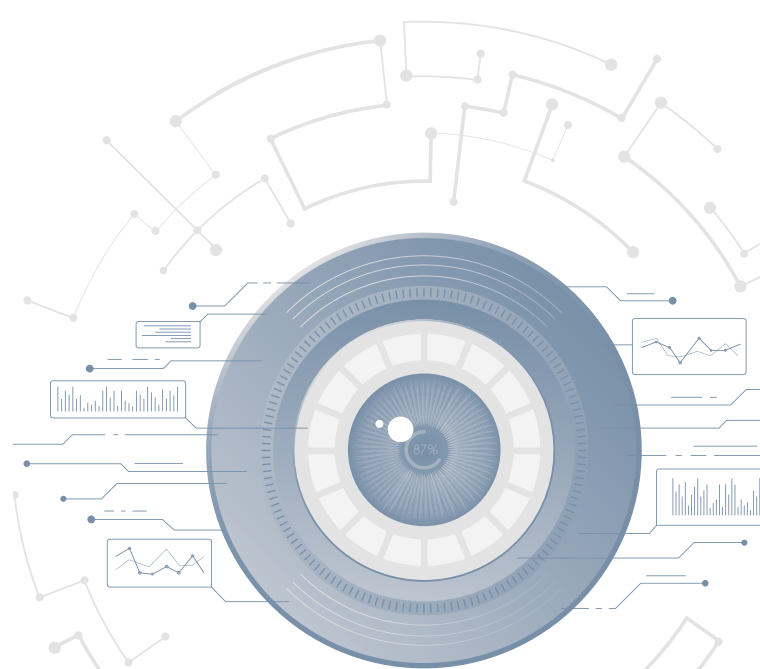
Increasing the quality and inventive step of the Russian inventions



Enabling search for unpatented areas and technologies



Accelerating technologies' entry into the market



Artificial Intelligence

→ **Work on the AI maturity of the IP Office**
Rospatent joined the AI Ethnic Code which is part of the Federal Artificial Intelligence Project and the Strategy for Information Society Development 2017-2030.

→ **AI** is more actively used in the search for and indexing of scientific and technical texts, as well as for the search and comparison of means of individualization¹ with the 3D visual representations

→ Experts of Rospatent actively use the AI-based **Smart Examination System for the Means of Individualization**

→ **Rospatent developed:**

«Platform using the neural networks to recognize graphic elements»

Technologies used: computer vision, deep machine learning, convolutional neural networks and text recognition

¹Under the Civil Code of the Russian Federation trade names, trademarks, service marks, geographical indications and appellations of origin are understood as the means of individualization of legal entities, enterprises, goods, works and services (hereinafter referred to as the means of individualization).



→ The System will be made publicly available in 2023





07

→ Business Climate Transformation



Task: to facilitate the adaptation of the Russian economy to the new global environment



Another factor of technological acceleration is a set of regulatory changes in managing the results of intellectual activity. Such changes are long overdue. In close collaboration with the business and expert communities, a road map, comprising 30 specific items, has been prepared and its implementation has already begun

First Deputy Prime Minister of the Russian Federation **Andrey Belousov**



The Roadmap entitled Business Climate Transformation in Intellectual Property is the IP-related strategic document (Decree No. 2027-r of the Government of the Russian Federation dated August 3, 2020)

7 Federal laws (items No. 2, 3, 4, 6, 8, 15 and 19)

2 Acts of the Government of the Russian Federation (items No. 23 and 25)

2 Acts of Rospatent (items No. 29 and 30)

Key Achievements

Trademark registration for natural persons (since June 2023)

Renewed tax exemption for reflecting the IP rights in the balance

Expanded list of R&Ds that may be accounted for the tax expenses with a 1.5 coefficient

VAT exemption in case of transferring IP rights under a commercial concession contract



The adoption of the methodology for determining the amount of license fees paid by the State customers when transferring the IP rights directly related to defense and security

VAT exemption for military, special and dual-use software

Expansion of the possibility to submit remarks on the patentability of inventions claimed in the PCT applications

New Federal IP Evaluation Standard adopted

Registration of loans backed by computer programs and databases (since June 2023)



→ Development of the IP System in the Russian Regions



Task: to trigger innovative activity in the Russian regions



It is significant for us that the main economic entities in the Republic, including JSC Biokhimik and Promomed Group, generate IP, carry out research and work with our universities. In this regard, we consider the protection of IP to be extremely important. We must not only create but also protect

Head of the Republic of Mordovia **Artyom Zdunov**



→ Trilateral agreements
Ministry of Economic Development of the Russian Federation – Rospatent – Region

Agreements signed with **12** regions

In 2022

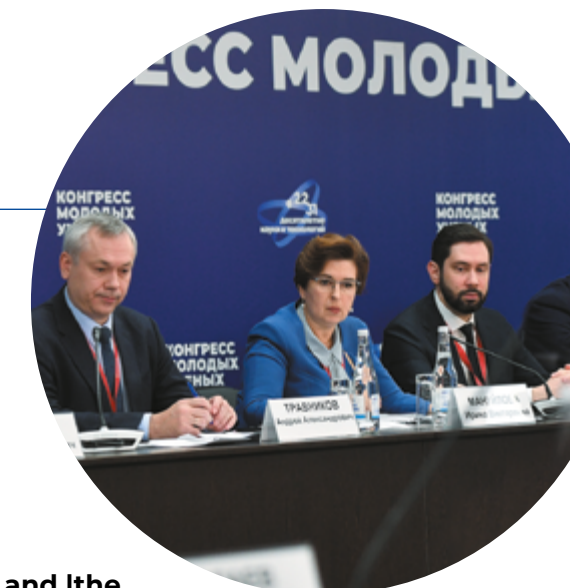
trilateral agreements concluded with

Republic of Mordovia Novgorod Region

bilateral agreements were concluded with

Rostov Region Republic of Tyva

→ **5** Russian regions, that signed trilateral agreements, listed in the top 10 regions by the inventive activity coefficient (IAC) — **2** of them (Novosibirsk Region and [the Republic of Mordovia) took higher positions in the IAC rating in contrast to 2021

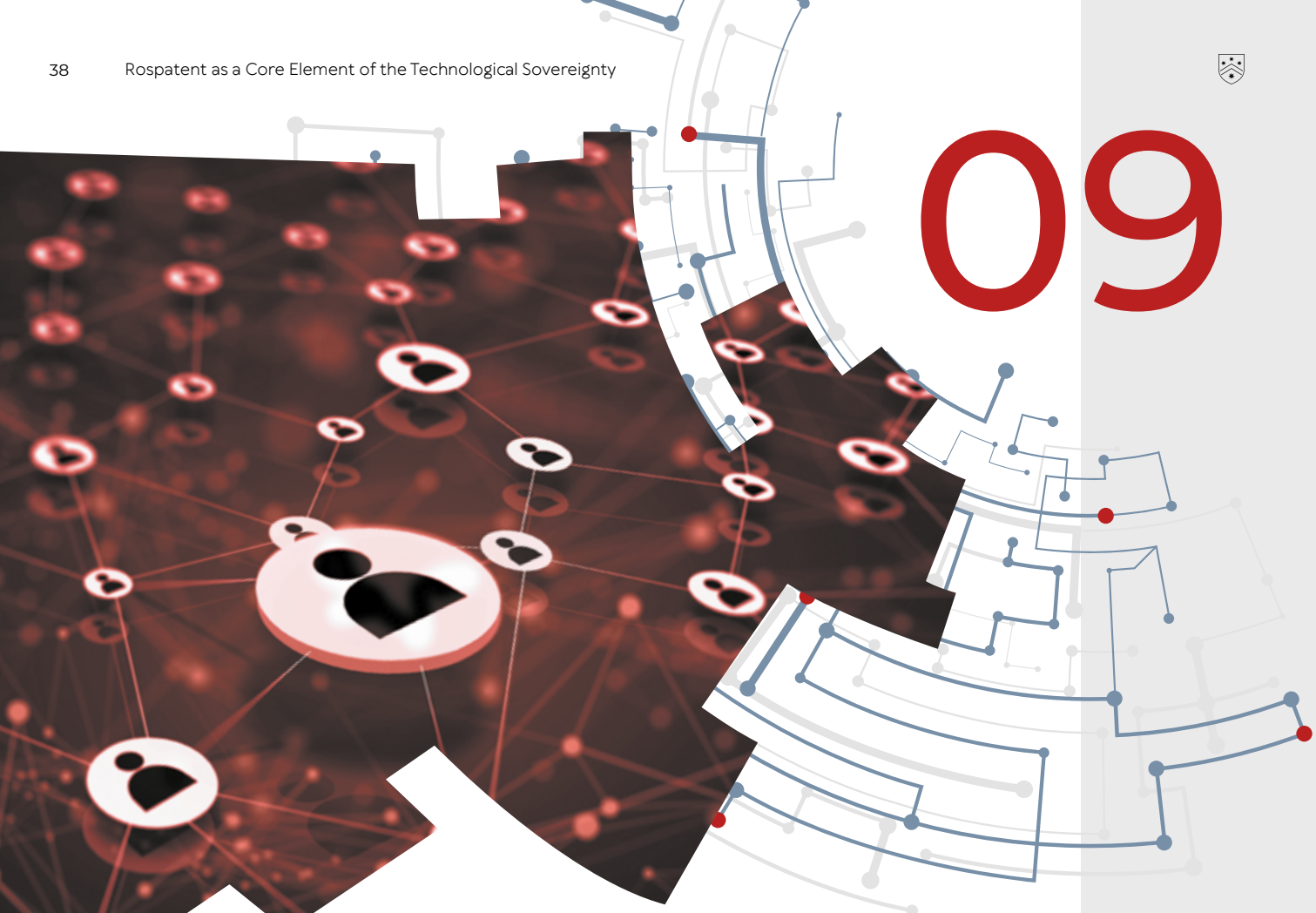




09

→ Development of the National HR Potential

High-quality education defines the country's future

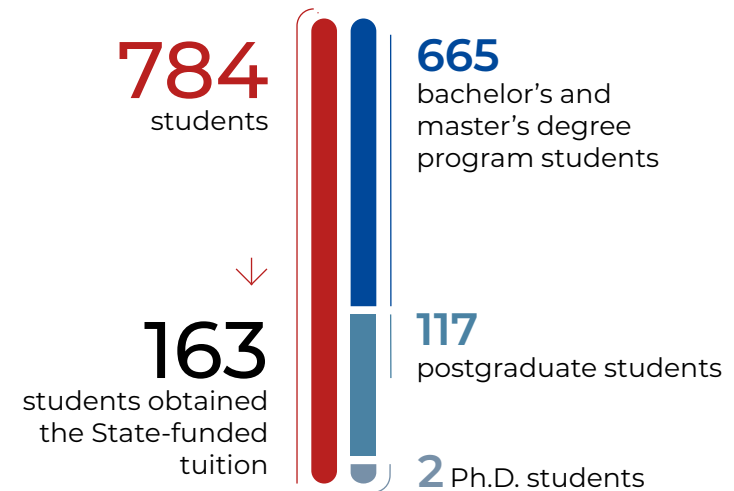


9.1 Russian State Academy of Intellectual Property (RSAIP)

RSAIP is the only higher education institution in Russia that trains specialists in IP

→ **RSAIP trains professionals specialized in the creation, management, legal protection and commercial use of IP rights (lawyers, managers, engineers, patent specialists)**

RSAIP students enrolled in main educational programs



In 2022, RSAIP Law Faculty was ranked 4th in HeadHunter.ru rating

→ **Geography of enrolment expanded in 2022**

74 constituent entities of the Russian Federation

20 foreign countries, including the CIS Member States

Upon the results of the admission campaign:

- Unified State Examination average score of applicants for bachelor's degree programs increased (86 points)
- Competition for the fee-paying places in postgraduate programs amounted to 3 applicants per place

20 new programs

In 2022, the number of educational programs increased. The new programs are entitled Innovatics, Information Systems and Technologies

100% of all educational programs are provided with electronic educational resources on the Academy's Distance platform



- Armenia
- Azerbaijan
- Belarus
- Kazakhstan
- Kyrgyzstan
- Tajikistan
- Turkmenistan
- Uzbekistan
- Ukraine
- Other States: Algeria, Bangladesh, Ghana, Egypt, India, Cameroon, Côte d'Ivoire, Nepal, Nigeria, Syria, Pakistan

5 RSAIP students obtained scholarships offered by the Moscow Government in 2022

Further professional education programs
3 139 students in 2022

Academy works with schools

- 📍 specialized and business classes (125 school students)
- 📍 University Saturdays for Moscow Schools is a new project of the Moscow Department of Education and Science for the pre-professional education of schoolchildren

9.2 Federal Institute of Industrial Property (FIPS)

The FIPS Scientific and Educational Centre is the leader of further IP-related education in Russia

In 2022, the FIPS Scientific and Educational Centre

trained **3 024** specialists

delivered **63** courses of advanced training programs (4 distance courses)

5 courses of the 3 professional retraining programs

→ **New programs**

- IP Evaluation
- Managing IP Rights in Universities
- Accounting of IP Rights in Organizations
- Registration of Industrial Designs
- Examination of Applications for Inventions and Utility Models

Launch of the accreditation system that allows scientific and educational organizations to carry out preliminary information search in relation to inventions and utility models and preliminary assessment of their patentability

5 accredited organizations:

- Volgograd State Medical University
- Ogarev Mordovia State University
- Southern Federal University
- Samara National Research University
- Samara State Medical University

Highly-qualified teaching staff — the State IP experts

Our graduates work in





10

→ Supporting Advanced Technologies

as a Step towards Creating a Successful Technological Country's Future



Advanced Technology Support Center

Established in April 2022

Supports national developers in search for technologies to replace the goods if their import has been restricted or banned by external restrictive measures



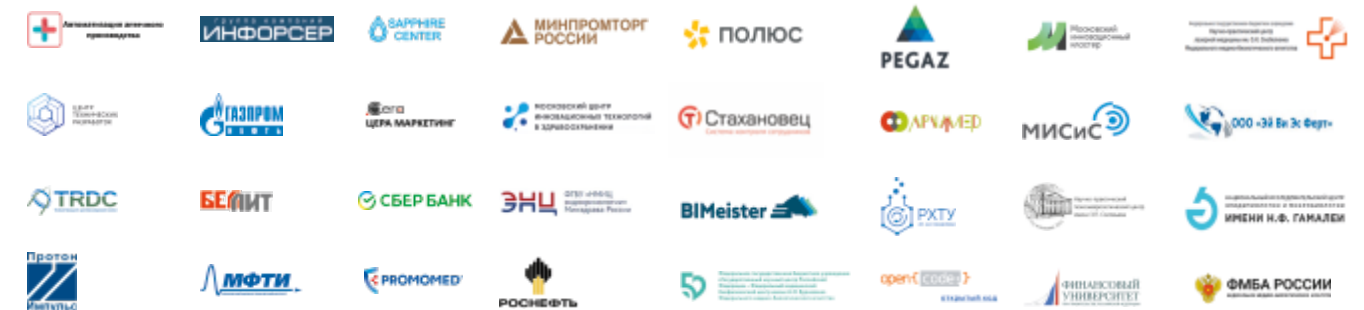
Now our agenda is focused on the development of conditions for the business community to create and protect its own product. Consequently, this will result in IP registration growth. Technologies will be promoted and become profitable instead of sitting on a shelf

Minister of Economic Development of the Russian Federation
Maxim Reshetnikov



- **230** expert reports prepared
- **37** applications for inventions
- **14 working days** taken on average to prepare accelerated research
- **25** patents

Project participants





Center's Goals:

- Ensuring the import independence of the Russian Federation, creating conditions for the national technological leadership
- Providing comprehensive legal protection for key products and technologies, supporting inventors in the creation of national innovative products

Research options:

- Comprehensive research on the patent portfolio of the target product manufacturer
- Identification of technologies free of the third-party rights
- Research of patented technologies for reengineering purposes
- Preliminary patentability assessment of a solution

Technological trends:

- Pharmaceuticals
- Biotechnology
- Medicine
- Oil production
- IT technology
- Chemical technologies
- Gold mining
- Food industry
- Agriculture
- Electronics
- Road construction



Main areas of activities:





Identifying patented technologies owned by non-resident companies leaving the Russian market

Identifying technologies that are not patented in Russia and owned by non-resident companies leaving the Russian market for their free use

Identifying opportunities for the goods substitution when their import has been restricted or banned by identifying opportunities to optimize their characteristics

Preliminary patentability assessment of the created technical solution

Implemented projects

INDUSTRIES	→	 Pharmaceuticals	 Medical technologies	 Medical technology	 IT Technologies	 Oil and gas industry
COMPANIES	→	LLC PROMOMED RUS	LLC Clinic of New Medical Technologies ArchiMed	Moscow Center for Innovative Technologies in Healthcare	Business Incubator of the Financial University under the Government of the Russian Federation	PJSC Gazprom Neft
PATENTS	→	3 patents antiviral drug to treat the coronavirus infection	1 patent technology for detecting thyroid disorders	1 patent technology to eliminate spinal diseases caused by dislocation and damage to the vertebrae, allowing to maintain the patient's lifestyle	3 patents technology of real estate image detection in a multi-level construction blueprint	1 patent technology of petroleum needle coke production through delayed coking
RESULTS	→	New drug to combat coronavirus infection registered under the trade name Radamin® Viro Currently preparing for production launch	An original diagnostic test system containing a unique set of genetic markers Preparing the documents for obtaining a registration certificate	The comprehensive patenting strategy of all technological components of restoring the spine structure (manufacture material, installation method) developed	An original domestic IT technology that does not violate the third parties' rights. It can be used in the design of real estate in the capital construction of industrial objects	Improved technological process at the same cost – a high degree of foreign technology substitution



→ Patent Analytics



Patent Analytics is a technology and innovation management tool for a wide range of science and business challenges

→ State



Rospatent developed the Early Response System (ER³), a system for expert and analytical support for the State R&D projects

Decree of the Government of the Russian Federation No. 3364-r on Pilot Projects with World-Class Science and Education Centers dated November 8, 2022

Applied at all life cycle stages

- **01** Scientific and technical concept of the project; definition of project requirements, technical features of the products
- **02** Launch of the project
- **03** Preparation of an innovative product for industrial production
- **04** Market launch of the innovative product
- **05** Product improvement

Goals

- To facilitate the selection of projects that shape the country's technological future
- To assist actors with technological and R&D projects

Impact

- Development of the Russian R&D at a high global level
- Identification of promising ideas with high commercial potential



Business



16 projects implemented for large Russian companies in 2022

Over 6 years, more than 100 projects have been implemented for the largest Russian companies, universities, development institutes, world-class science and education centers

New service circuits developed

- Import substitution
- Diversification
- Building business processes
- Key engineering tasks

Details: <https://patscape.com/blog/>

Science



Hydrogen is a potential source of valuable patents

Research on Hydrogen production technologies with accompanied CO₂ utilization Based on Patent and Non-patent Information was conducted

The research covered the main trends, geography, companies, strategies, hydrogen-applicable areas and valuable patents

Five identified main types of produced hydrogen sorted by colors

- green
- pink
- orange
- blue
- turquoise



The book entitled Patent Landscape: Hydrogen production technologies with accompanied CO₂ utilization was published as a result of the research



Capacity building for patent information analysts



for specialists: further professional training in Modern Patent Analytics



for universities: workshops, lectures, practice-oriented training, internships



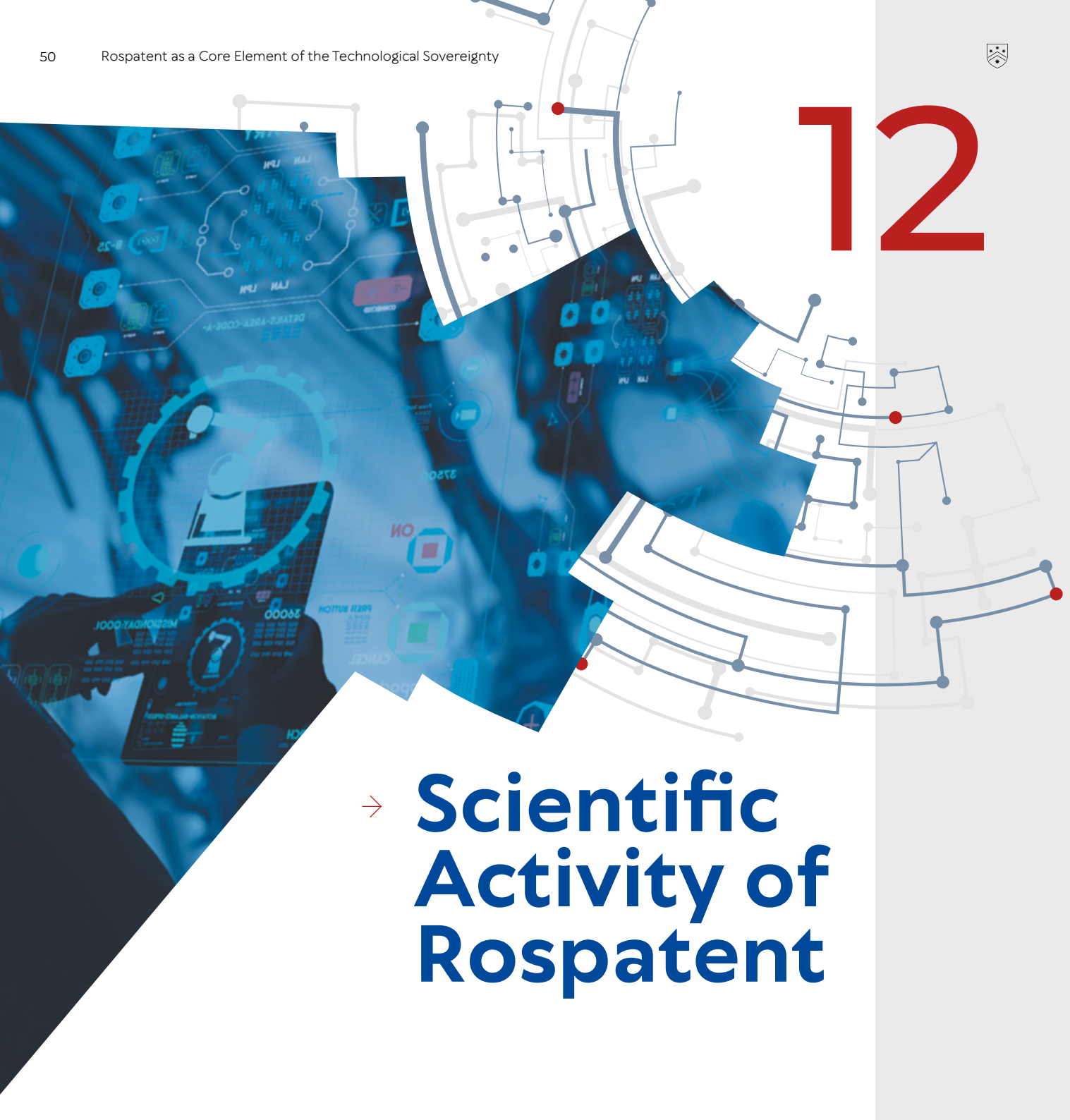
for school students: lectures «Patent Researcher – the Profession of Future» within the implementation of the projects entitled «School Patent – a Step into the Future!», «Patent Takeoff» and others

Artificial intelligence helps in complex data analysis

Smart Analysis of Data is a new direction for the implementation of unique analysis algorithms that are not offered even by recognized suppliers of patent analytics systems

A new version of the service for a selection of promising technological projects was developed (R&D Entourage 2.0)

Using comprehensive methods of smart analysis of patent data: decision trees, random forest and other AI methods and techniques



→ Scientific Activity of Rospatent

12



Rospatent plays an increasing role, since the Office not only supports the creation of inventions but also exercises the State control over the legal protection and use of inventions. The main emphasis in the evaluation of scientific research effectiveness should be made on the demand for its results in the real economy rather than on the scientometric rating. Authors should first patent their ideas and then publish open-source articles. Using this approach, we can change the role of our science in supporting the technological sovereignty of the country

Chairman of the State Duma Committee on Science and Higher Education **Sergey Kabyshev**



12.1 Science at FIPS

The priority is the country's scientific, technological and innovative development

→ **Scientific organization of the 1st category**

140

employees from 23 divisions involved in research and scientific activity

80+

employees involved in publication activity



Today our main goal is the transformation of FIPS into an IP methodological center working in the Eurasian region and addressing matters of examination, legal protection, use and protection of the results of intellectual activity and means of individualization

Director of FIPS
Oleg Neretin



15 research works
carried out in 2022

→ **Results**

100+ scientific materials

- articles in scientific journals
- papers in scientific collections
- monographs
- methodological and analytical materials

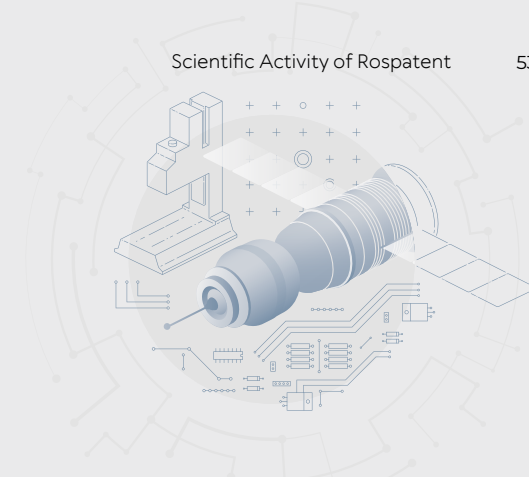
FIPS launched its sectorial periodical scientific journal – the FIPS Bulletin (2 issues published)



12.2 Science at RSAIP

→ **2022 results**

- 12 pieces of research
- 4 theses defended at the dissertation council
- 35 examinations carried out upon requests of commercial courts and companies
- new electronic journal «IP: Theory and Practice»
- more than 20 scientific events
- 72 awards in student scientific competitions



Textbook on Corporate Social Responsibility won the Discovery of the Year nomination of the 9th All-Russian Book Award entitled «Golden Fund»

Important documents related to the international cooperation

RSAIP-EAPO Strategic Cooperation Plan 2022-2026

Cooperation agreement with the Russian-Armenian University (Yerevan)



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→ Raising IP Awareness



More knowledge equals higher patenting and economic activity in Russia

Promoting IP, science and invention is one of the key functions of Rospatent; a contribution to encouraging scientific and inventive activity and thus developing the country's intellectual potential

→ **Intellectual Property Forum «IP ERA»**
(September 28-30, 2022)

The 26th Rospatent Conference entitled «IP as a Basis for Ensuring Russia's Technological Sovereignty»

The 2nd Conference «2 Days of Patent Analytics»

7 500+ participants	130 speakers	23 business events	2 exhibitions
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→ **ERA IP** ЦИФРОВАЯ ЭКОСИСТЕМА ИНТЕЛЛЕКТУАЛЬНОЙ СОБСТВЕННОСТИ

The 5th International Conference IP ERA entitled «Digital Intellectual Property Ecosystem» (April 28, 2022)

550+ participants	26 speakers	6 business events
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→ **Rospatent at the World Exhibition EXPO 2020 DUBAI**
(Dubai, UAE, March 1-12, 2022)

more than 17k
visitors of Rospatent's
thematic exposition

6
business events

9
speakers



→ **Rospatent's Successful Patent competition**
as a tool to promote the success stories related to the commercialization of the patented solutions

→ **120 awareness-raising events**
thematic meetings, exhibitions, excursions, popular science projects for children and youth

events gathered
more than 36k people



Social media activity

→ **Federal, regional and online mass media**

386
news items

37k
publications mentioning Rospatent

32m
maximum news coverage

→ **Rospatent and FIPS official websites**

1 927
news articles and media releases published

3 255 document packages and **260+** regulatory acts related to the Rospatent's activities are publicly available

→ **Rospatent and FIPS social media accounts**
(VK, OK, Telegram, Rutube)

IP news, interesting facts related to science and inventions

+4 027
subscribers

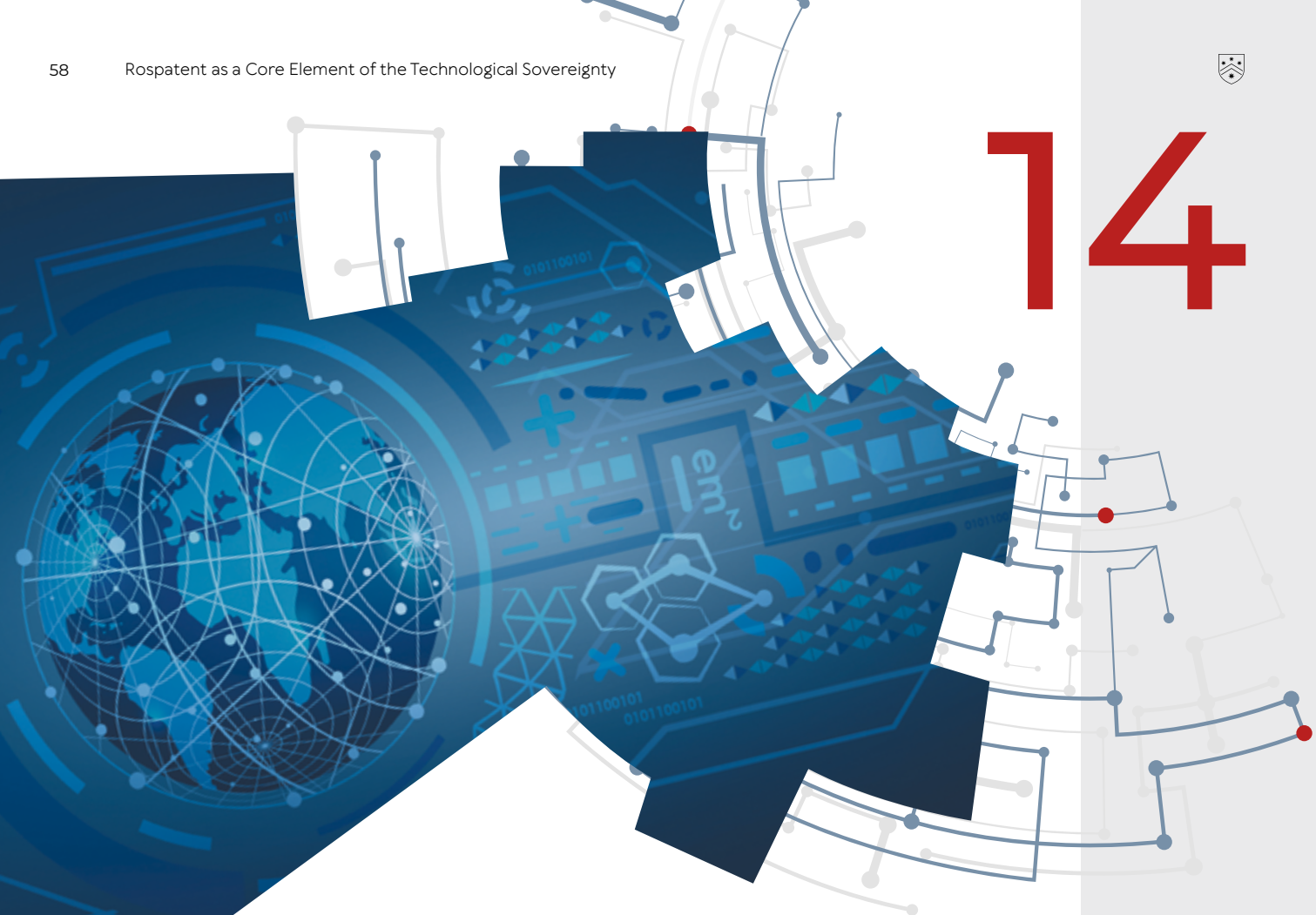
2 767
posts





14

→ International Cooperation



Task: to keep the leading positions of the Russian Federation in the global IP system

Assemblies of the WIPO Member States, July 2022

Unilateral illegitimate restrictive measures have a negative impact on the global economy and IP system users. The Russian Federation supports WIPO's role as a core professional forum to discuss and harmonize IP-related international approaches and standards

Head of Rospatent **Yury Zubov**



Russia has been and continues to be the WIPO Member. We call upon all the Member States to take into account the long-term strategic interests of the parties when making decisions

Director General of WIPO **Daren Tang**



Despite the challenging geopolitical situation in 2022, **the Russian Federation keeps a strong position in the global IP system** and strictly adheres to the obligations arising from the relevant international treaties



Strengthening bilateral cooperation with the Republic of Belarus in 2022

- Drafted the Agreement on scientific and technical cooperation
- Held the International Scientific and Practical Conference in Minsk, Republic of Belarus
- Reached an understanding of the development of the Technology and Innovation Support Center (TISC) network and regional brand protection system based on the Russian experience



Russia is at the final stage of the accession to the Geneva Act of the Lisbon Agreement on AOs and GIs

(relevant Federal Law came into force on December 31, 2022)



Development of Regional and Bilateral Cooperation

- Rospatent signed the Memorandum of Understanding with the Saudi Authority for IP
- Identified areas of collaboration with China
- Signed the Memorandum of Understanding on IP-related training with the IP Office of South Africa
- Approved new areas of cooperation within BRICS
- Established Cooperation with the Organisation of Islamic Cooperation
- Defined joint work plan with India
- Held substantive meetings with the Heads of Algerian and Iranian IP Offices



Eurasian Integration

EAPO integrated Rospatent`s experience and practice on 3D models



→ **ROSPATENT MAIN GOALS FOR 2023**



01

Improve the citizens', scientific and business communities' satisfaction with the provided public services through the integration of the client-centric approach

02

Incorporate an expert and analytical support mechanism into the public R&D management system

03

Expand international cooperation in order to promote the interests of the Russian Federation and protect the Russian rights holders abroad

04

Assist the development of the management systems for the results of intellectual activities and the means of individualization in the Russian regions

05

Implement the pilot projects related to a special taxation regime in terms of transferring the rights to the results of intellectual activity and improve accounting rules for the development of IP rights management

06

Participate in the pilot on the IP-backed loans tool for technology companies in order to expand production in the Russian regions

07

Implement various programs and projects aimed at improving IP legal culture and raising awareness

08

Provide scientific and educational organizations, industrial enterprises and public authorities with human resources qualified in IP protection and commercialization



Official Rospatent Media



ROSPATENT.GOV.RU



VK.com



Telegram



Head of Rospatent
on Telegram



Rutube



OK.ru

The publication contains statistical and analytical materials that reflect the main results of the activities of Rospatent and its subordinate organizations in 2022, as well as plans for the IP development

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EDITED BY

Yury Zubov, Ph.D. candidate, pedagogy

EDITORIAL TEAM

Andrey Solonovich, Ph.D. candidate, technical science

Valery Frolov

Victortia Galkovskaya

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Denis Monastyrskiy, Ph.D. candidate, pedagogy

Tatiana Kuznetsova, Ph.D., pedagogy

Marina Ivanova, Ph.D., social sciences

Svetlana Gorushkina, Ph.D. candidate, sociology

Irina Pushkarskaya

Natalia Grishenko

EDITORS

Anastasia Lomakina

Olga Idrisova

ART CURATOR

Svetlana Lebedeva

DESIGN, LAYOUT

Anton Grigoriev

HOTRED



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