

INTELLECTUAL PROPERTY IN FIGURES

Activity indicators in the field of
intellectual property
for 9 months of 2023

2023



State Organization
«Ukrainian National Office for Intellectual Property and
Innovations»

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Kyiv – 2023

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I. Main Performance Indicators

1. Common Tendencies

Despite challenging circumstances that the whole of Ukraine is facing during the full-scale war, the field of intellectual property manages not only to recover but to develop as well. Resident inventors, innovators, creators and enterprises continue the support of Ukrainian economy while also creating the new space for innovations in the country.

In 2023 just in 9 months, there was a significant increase in applications filed for industrial property. The total number of filed applications increased by 44.1% compared to the same period of the previous year. The indications in 9 months from 2022 and 2023, compared displays that the number of filed trademark applications under the national procedure had the most significant increase – 50.4%, as well as the number of filed applications for utility models was increased by 46.8%. (table 1, figure 1).

Table 1. Applications for Industrial Property Rights Protection in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Total	39,119	27,930	30,437	16,310	23,506	144.1%
Inventions	3,007	2,276	2,428	1,933	2,076	107.4%
Utility Models	7,059	4,025	3,095	1,706	2,505	146.8%
Industrial designs	1,958	1,494	1,471	649	840	129.4%
Trademarks (under the national procedure)	27,095	20,135	23,443	12,022	18,085	150.4%



Figure 1. Trend in Applications for Industrial Property Rights Protection in the 9 Months of the Year from 2019 to 2023

¹ Data for previous years have been updated

² Previous data

In the span of 9 months of 2023 almost reached 13.8 thousand registrations for industrial property rights protection were made. (table 2, figure 2).

Table 2. Industrial Property Rights Protection Registrations in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023	2023 to 2022
Total	23,154	22,386	23,380	18,304	13,790	75.3%
Inventions	1,757	1,614	1,756	1,373	914	66.6%
Utility Models	6,139	5,092	3,193	1,810	1,844	101.9%
Industrial designs	2,014	1,579	1,451	600	450	75.0%
Trademarks (under the national procedure)	13,244	14,101	16,980	14,521	10,582	72.9%

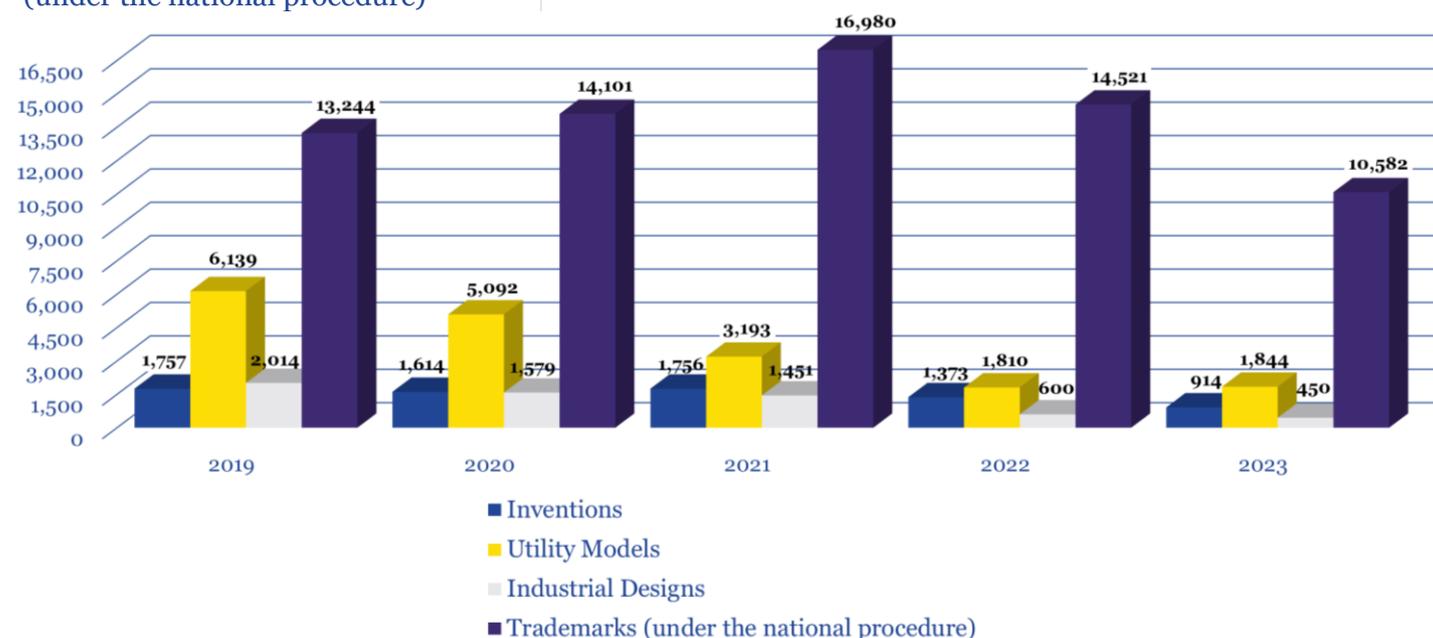


Figure 2. Trend in Industrial Property Rights Protection Registrations in the 9 Months of the Year from 2019 to 2023

2. Inventions

Comparing corresponding periods of 2022 and 2023, number for filed applications for inventions was increased by 7.4% and sums up to 2,076 applications, 720 of which were received from the resident applicants and is 43.1% higher than the previous year indicators. The non-resident inventors' activities of applicants have once again exceeded those of the residents, as it had been for the last 4 years (table 3, figure 3).

Table 3. Patents Filed in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Total	3,007	2,276	2,428	1,933	2,076	107.4%
Under the national procedure	1,897	1,141	1,114	673	849	126.2%
Resident applicants	1,751	940	903	501	716	142.9%
Non-resident applicants	146	201	211	172	133	77.3%
Under the PCT procedure	1,110	1,135	1,314	1,260	1,227	97.4%
including resident applicants	1	1	5	2	4	200.0%

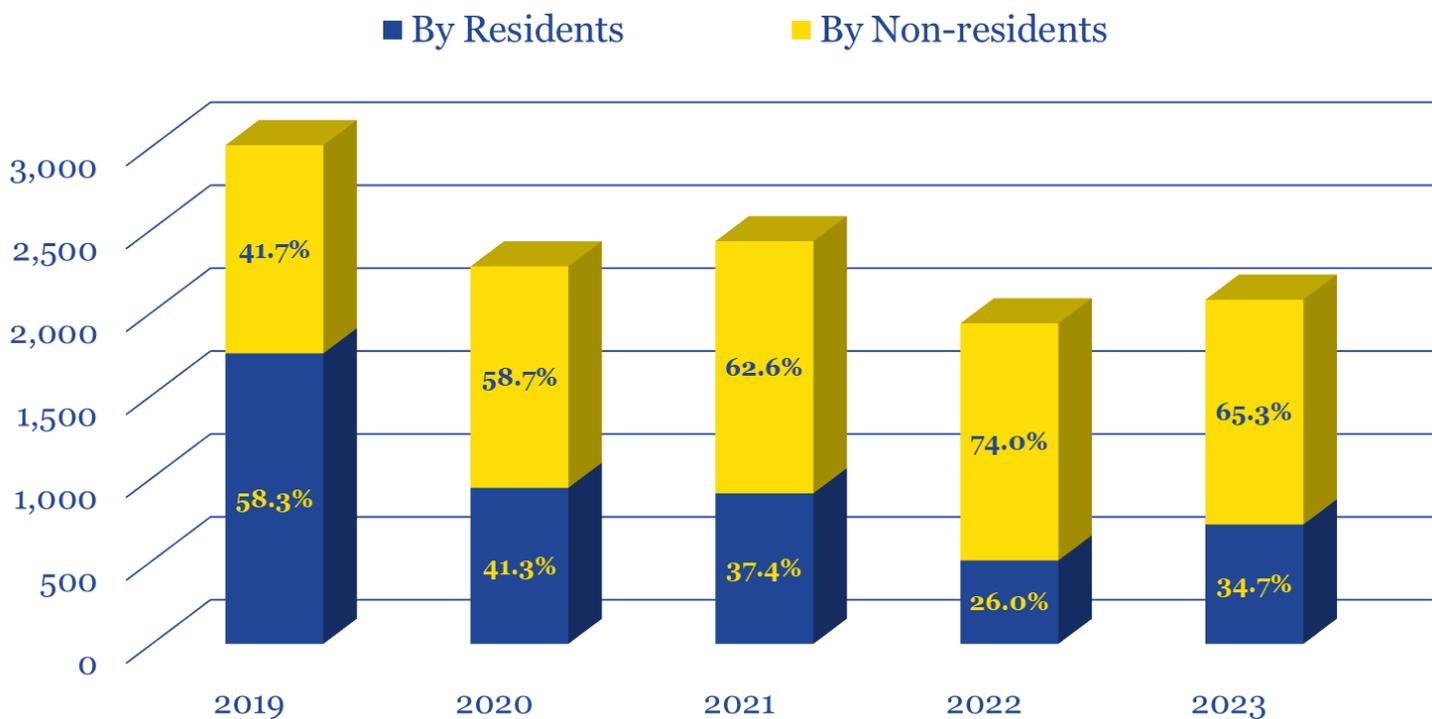


Figure 3. Trend in Patents Filed in the 9 Months of the Year from 2019 to 2023

The share of applications filed by residents increased by 8.7% compared to the indications in the 9 months of 2022 and increased up to 34.7% of the total number of applications (figure 4).

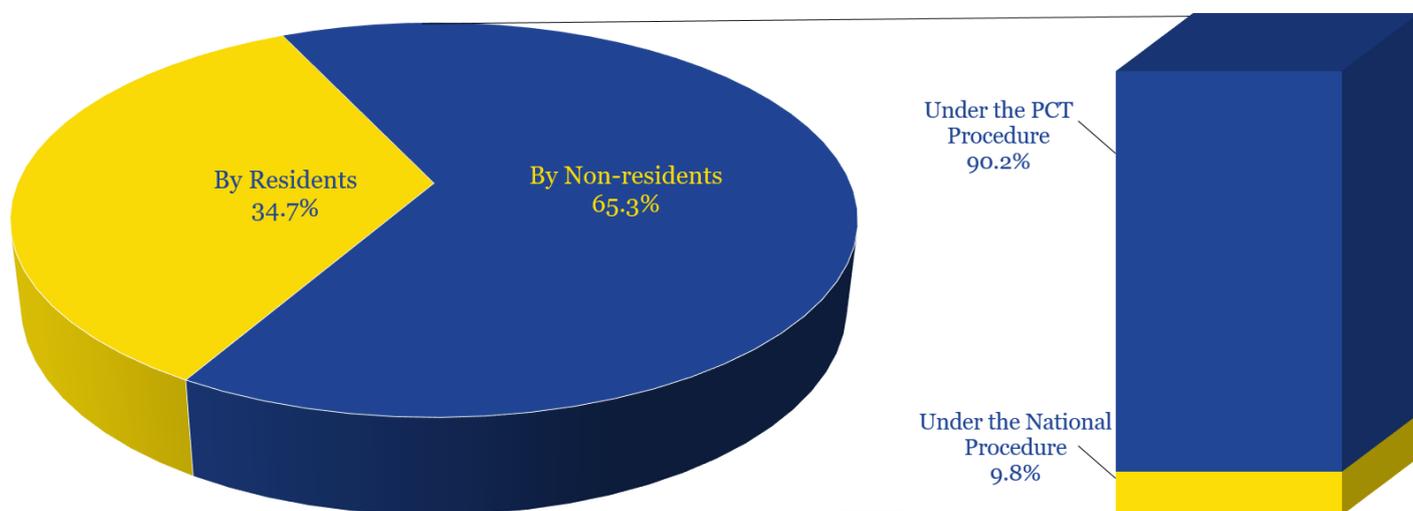


Figure 4. Correlation between Resident and Non-resident Applicants in the 9 Months of 2023

In the 9 months of 2023 leaders among non-resident applicants remained the United States of America (-12.7% compared to the previous year), Switzerland (+6.1%), the United Kingdom (+13.1%) and Germany (-4.1%). It is worth mentioning that the number of applications from the Republic of Korea (+77.8%) and Sweden (+54.5%) increased significantly, at the same time the number of applications from China (-44.6%) decreased essentially (table 4, figure 5).

Table 4. Non-resident Applications by Origin in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Total	1,255	1,335	1,520	1,430	1,356	94.8%
United States of America	375	363	429	409	357	87.3%
Switzerland	129	144	153	165	175	106.1%
United Kingdom	59	78	117	137	155	113.1%
Germany	175	171	155	147	141	95.9%
Luxembourg	30	54	40	50	51	102.0%
Republic of Korea	21	24	39	27	48	177.8%
France	56	36	52	47	46	97.9%
Japan	42	41	51	51	38	74.5%
China	34	69	99	65	36	55.4%
Netherlands	26	31	38	27	35	129.6%
Sweden	21	13	24	22	34	154.5%
Italy	21	41	27	23	26	113.0%
India	20	23	21	21	23	109.5%
Belgium	38	21	35	40	22	55.0%
Other	208	226	240	199	169	84.9%

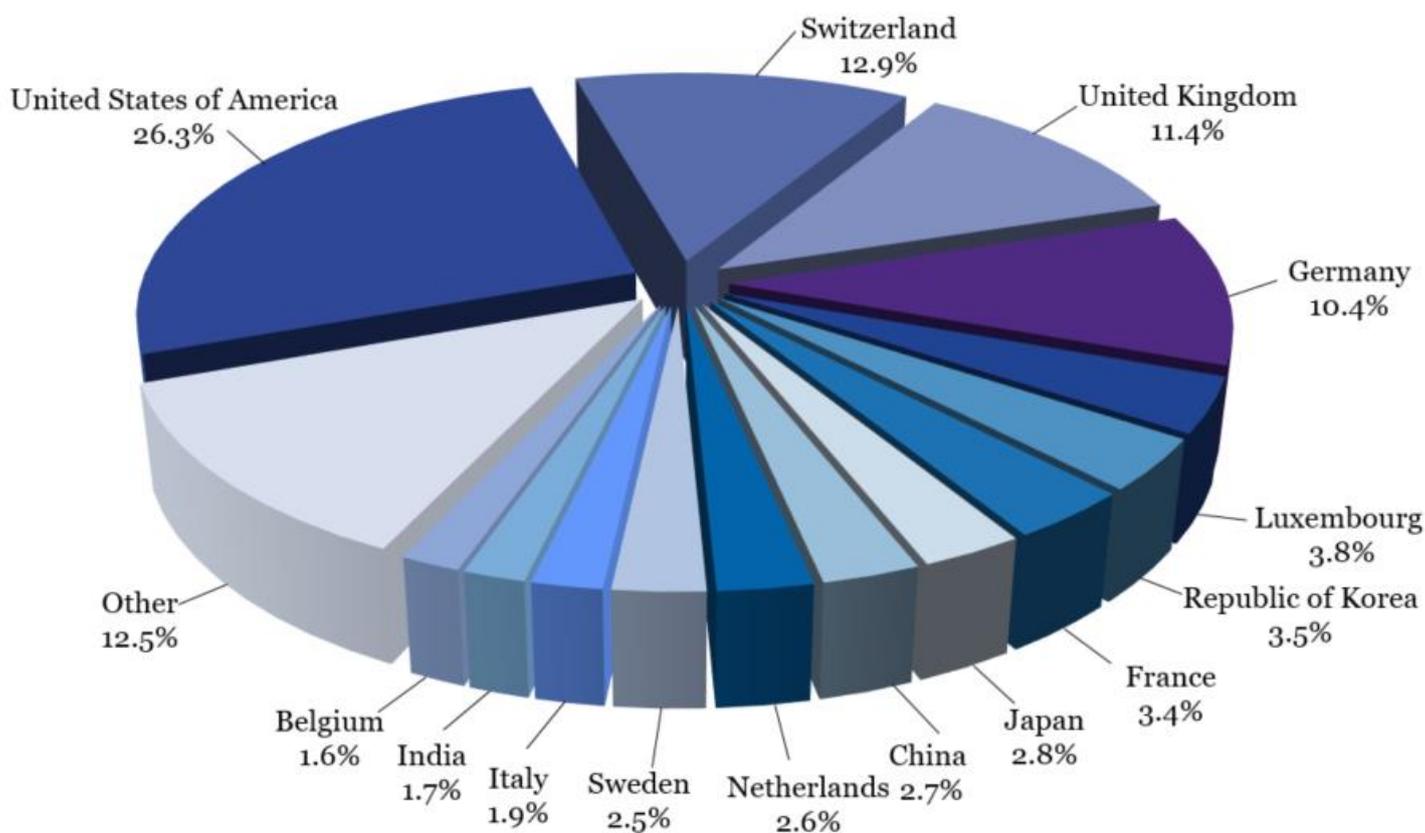


Figure 5. Non-resident Applications by Origin in the 9 Months of 2023

Distribution of resident and non-resident applications for inventions by technology fields in the 9 months of the year from 2019 to 2023 is presented in annexes 1 and 2.

Total number of patents granted reached 914 in 9 months of 2023, which is 33.4% less compared to the corresponding period of the previous year. Meanwhile the share of patents granted to non-resident applicants was increased by 3.3% and amounted to 63.2% of the total number of patents granted for inventions, which is the highest indicator in the last 4 years (table 5, figure 6).

Table 5. Patents Granted in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023	2023 to 2022
Total	1,757	1,614	1,756	1,373	914	66.6%
To residents	952	793	753	550	336	61.1%
To non-residents	805	821	1,003	823	578	70.2%

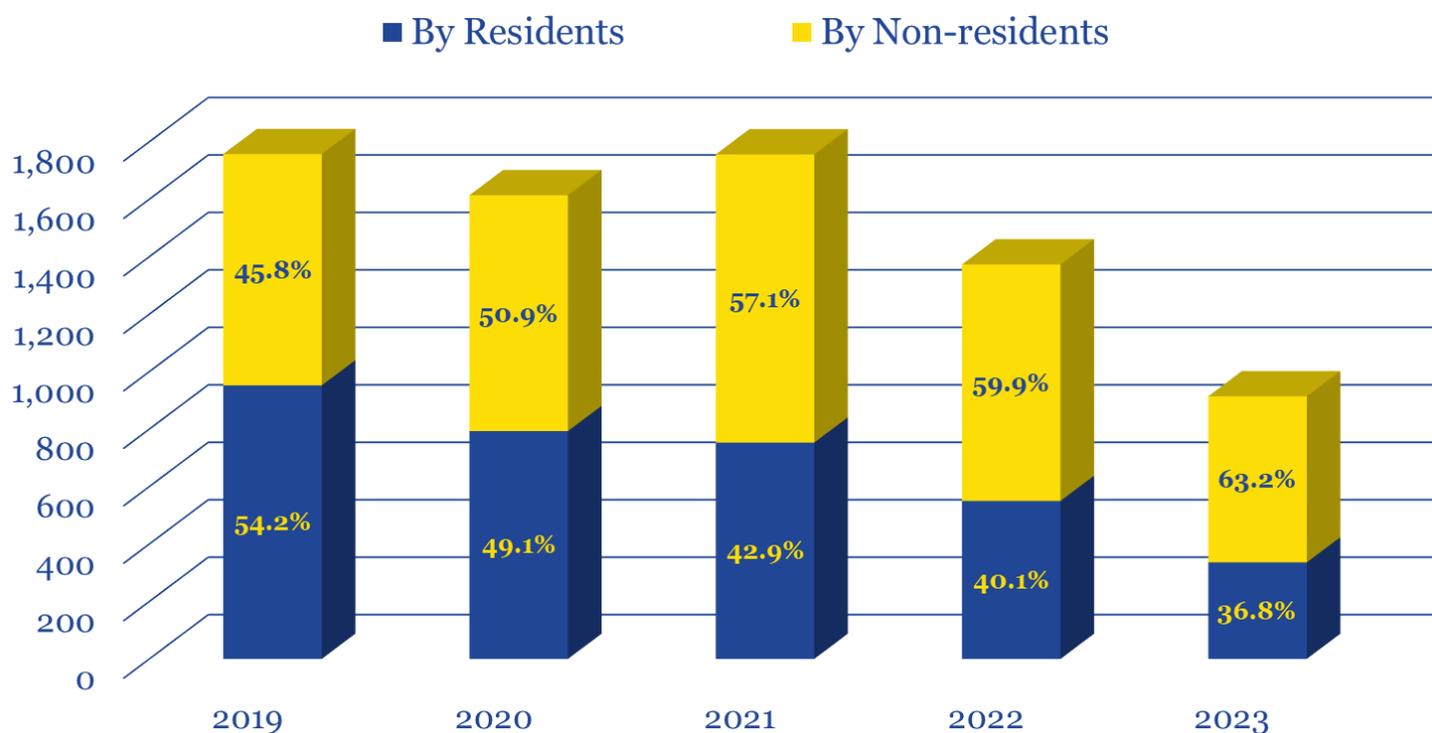


Figure 6. Trend in Patents Granted in the 9 Months of the Year from 2019 to 2023

On July 10, 2023 during the World Intellectual Property Organization (WIPO) General Assembly the relevant amendments were approved stating that the State Organization “Ukrainian National Office for Intellectual Property and Innovations” (UANIPIO) continues to perform the functions of the International Searching Authority (ISA) and the International Preliminary Examining Authority (IPEA). Since the beginning of the year, reports on international search and written opinions of the ISA have been sent to applicants and to the International Bureau of WIPO for 26 applications, including 3 in June, 12 in July, 7 in August, and 4 in September. Two International Preliminary Examination Reports on Patentability (IPERs) were sent to applicants and to the International Bureau of WIPO by the UANIPIO as the IPEA.

3. Utility Models

Compared to the corresponding period of the previous year, the total number of applications for utility models increased significantly (by 46.8%) indicating a gradual return to the pre-war levels. The number of applications filed by non-residents under the national procedure increased by 57.9% (table 6, figure 7).

Table 6. Applications for Utility Models in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Total	7,059	4,025	3,095	1,706	2,505	146.8%
Under the national procedure	7,054	4,018	3,091	1,702	2,501	146.9%
By residents	6,982	3,825	3,026	1,664	2,441	146.7%
By non-residents	72	193	65	38	60	157.9%
Under the PCT procedure	5	7	4	4	4	100.0%
Including resident applicants	–	–	–	–	2	–

■ By Residents ■ By Non-residents

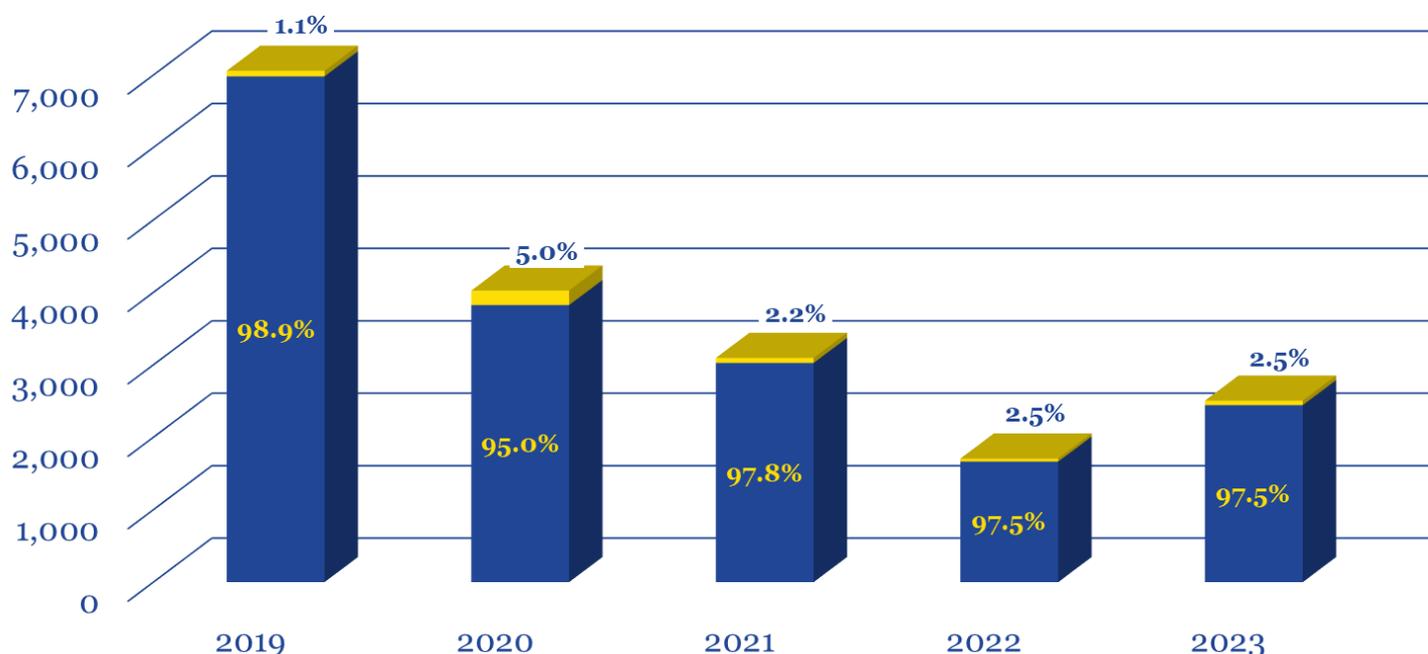


Figure 7. Trend in Applications for Utility Models in the 9 Months of the Year from 2019 to 2023

During the 9 months of 2023, there was an insignificant increase in the number of registrations for utility models – 1.9%, compared with the same period of the previous year. In total more than 1.8 certificates for utility models were granted, 98.6% of which were granted to resident applicants (table 7, figure 8).

Table 7. Utility Models Registrations in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023	2023 to 2022
Total	6,139	5,092	3,193	1,810	1,844	101.9%
To residents	6,029	4,996	3,070	1,774	1,819	102.5%
To non-residents	110	96	123	36	25	69.4%

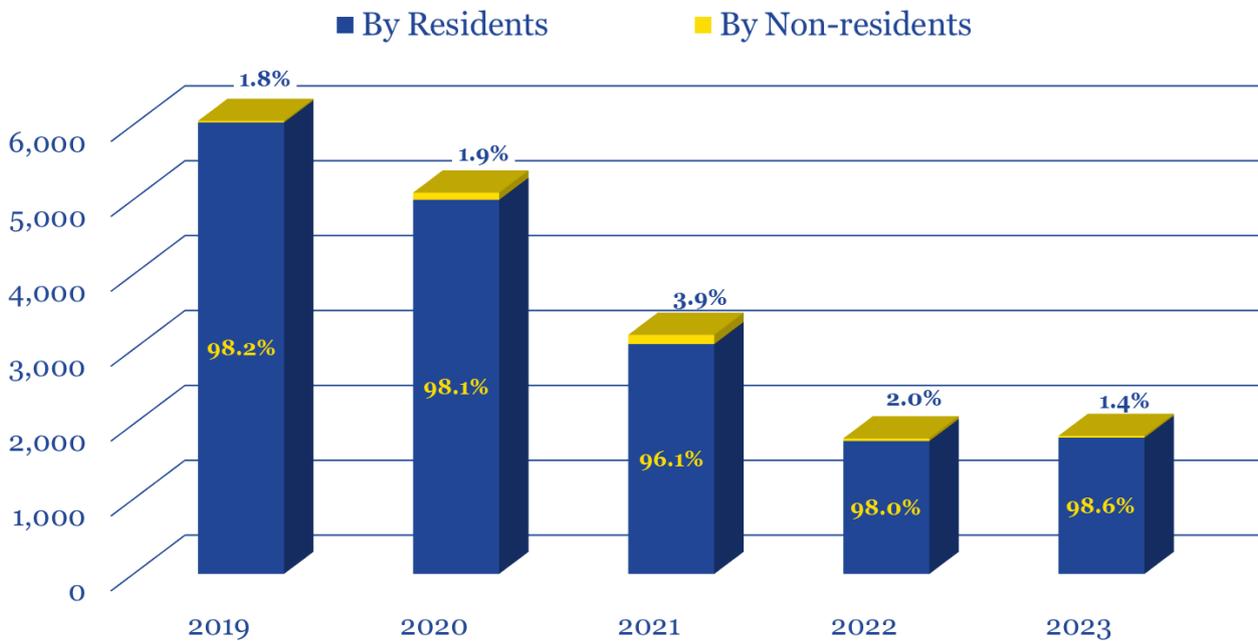


Figure 8. Trend in Utility Models Registrations in the 9 Months of the Year from 2019 to 2023

4. Industrial Designs

840 applications for industrial designs were filed in the 9 months of 2023, increased by 29.4% compared to the corresponding period of the previous year. There is an increase in activity of both resident (by 28.1%) and non-resident (by 40.3%) applicants. The share of resident applicants, as in previous years, exceeds the share of non-resident applicants and amounted to 88% from the total number of filed applications. (table 8, figure 9).

Table 8. Applications for industrial designs in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Total	1,958	1,494	1,471	649	840	129.4%
By residents	1,789	1,307	1,347	577	739	128.1%
By non-residents	169	187	124	72	101	140.3%

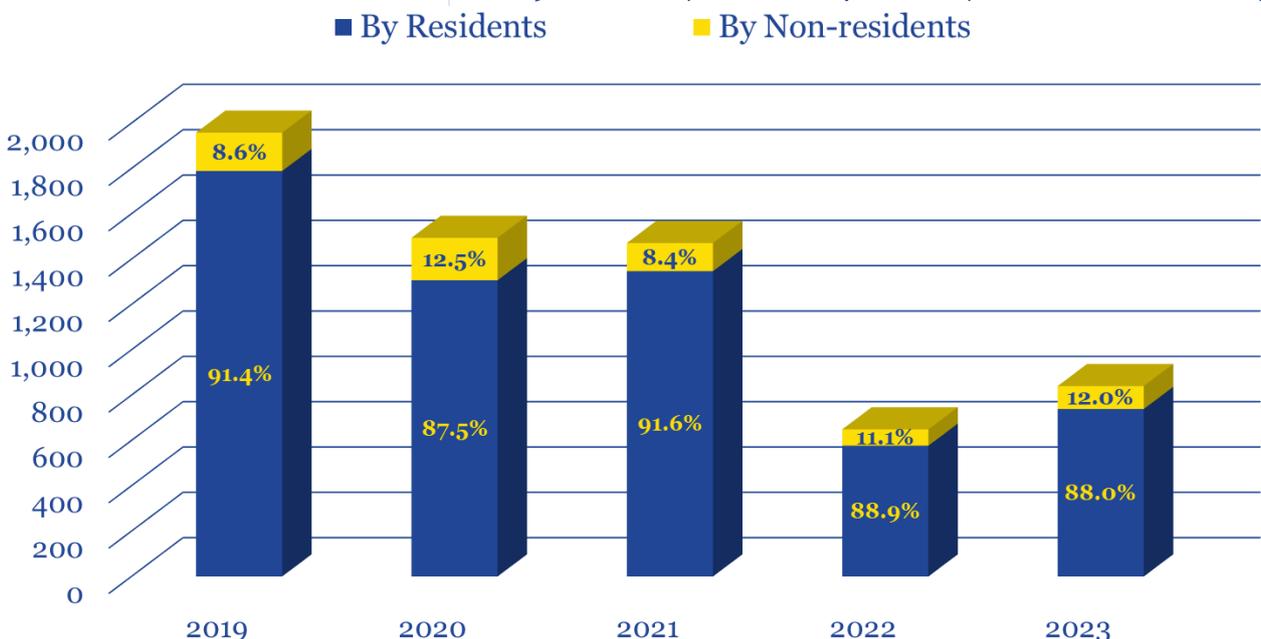


Figure 9. Trend in Industrial Designs Applications in the First 9 Months of the Year from 2019 to 2023

During year 2023 in 9 months, 450 industrial designs were registered. The number of certificates granted to non-resident applicants remained nearly the same compared to the same period of 2022 (table 9, figure 10).

Table 9. Industrial Design Registrations in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023	2023 to 2022
Total	2,014	1,579	1,451	600	450	75.0%
To residents	1,859	1,419	1,264	545	397	72.8%
To non-residents	155	160	187	55	53	96.4%

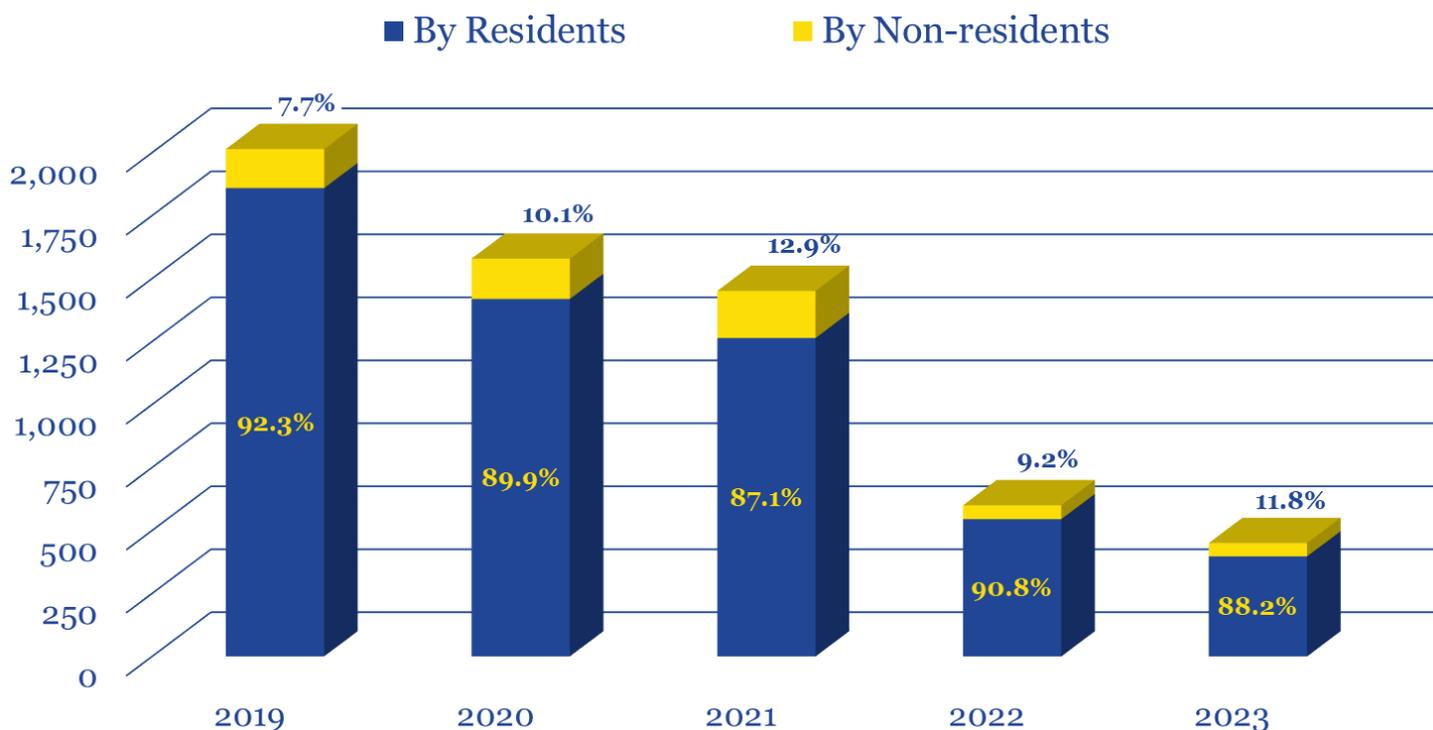


Figure 10. Trend in Industrial Design Registrations in the 9 Months of the Year from 2019 to 2023

5. Trademarks

More than 18 thousand applications for trademarks under the national procedure were filed during the 9 months of 2023, increased by 50.4% comparing with the corresponding period of the previous year. Comparing indicators of 2022 and 2023, there were an increase in activities of both resident (by 56.4%) and non-resident (by 14.3%) applicants (table 10, figure 11).

Table 10. Trademark Applications (under the National Procedure) in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Total	27,095	20,135	23,443	12,022	18,085	150.4%
By residents	24,226	17,256	20,306	10,314	16,133	156.4%
By non-residents	2,869	2,879	3,137	1,708	1,952	114.3%

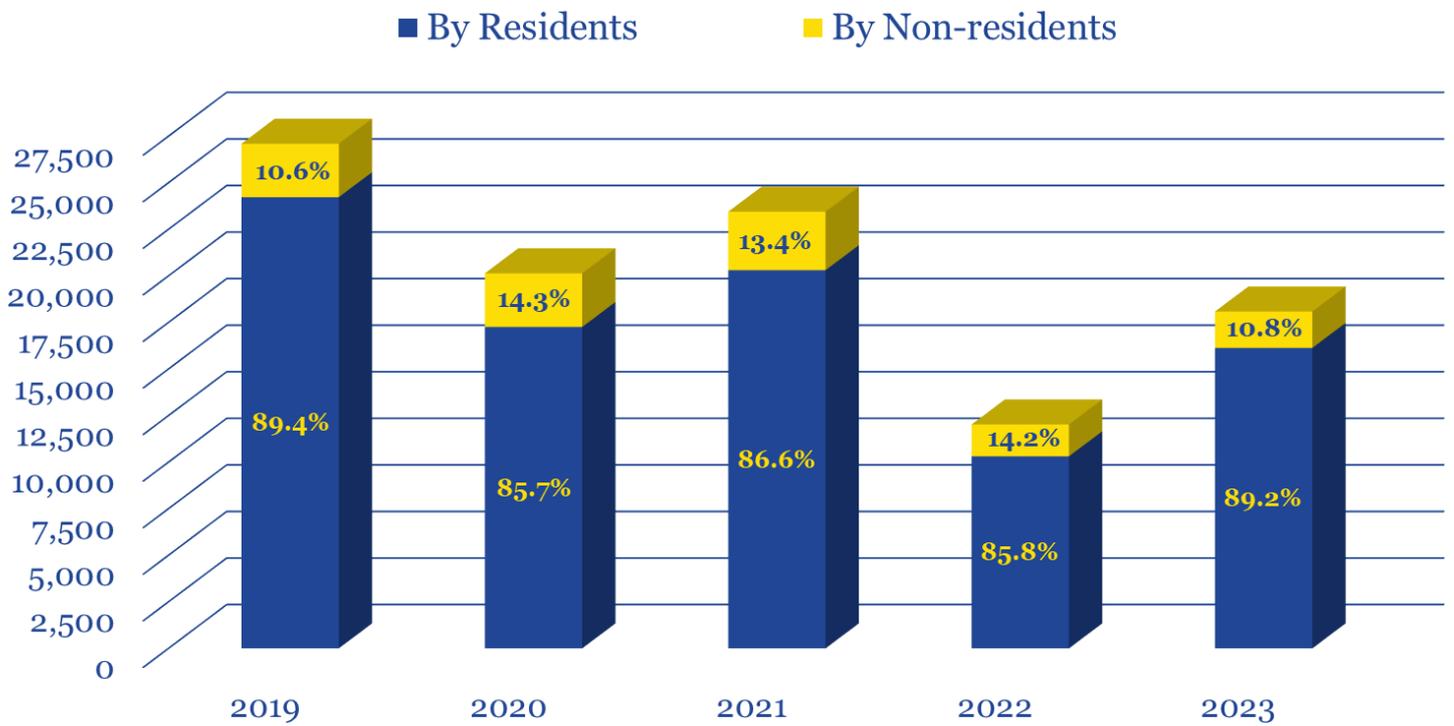


Figure 11. Trend in Trademark Applications (under the National Procedure) in the 9 Months of the Year from 2019 to 2023

The most active non-resident applicants in the 9 months of 2023 were applicants from Cyprus – 296 applications (15.2%), the United States of America – 292 applications (15.0%), Switzerland – 210 applications (10.8%), the United Kingdom – 178 applications (9.1%), China – 139 applications (7.1%), Poland – 98 applications (5.0%), Germany – 83 applications (4.3%), Estonia – 54 applications (2.8%), Japan – 38 applications (1.9%), Hong Kong and the Republic of Korea – 34 applications (1.7%) (figure 12, annex 13).

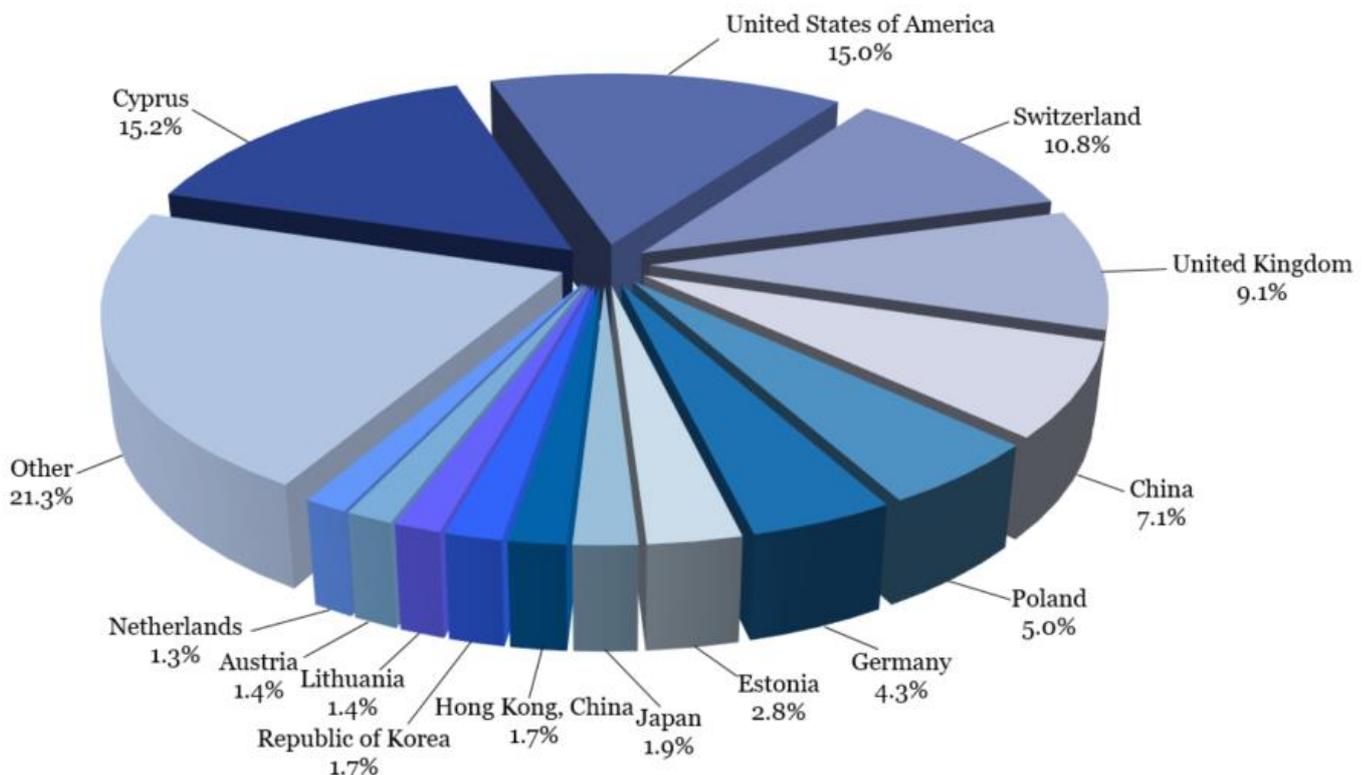


Figure 12. Trademark Applications (under the National Procedure) by Non-residents by Origin in the 9 Months of 2023

Despite the challenging situation in the country, the total number of trademark registrations in the 9 months of 2023 exceeded more than 10.5 thousand. The share of resident registrations is still high (>80%), as it had been in the last 4 years (table 11, figure 13).

Table 11. Trademark Registrations (under the National Procedure) in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023	2023 to 2022
Total	13,244	14,101	16,980	14,521	10,582	72.9%
By residents	11,368	12,066	14,774	11,819	8,860	75.0%
By non-residents	1,876	2,035	2,206	2,702	1,722	63.7%

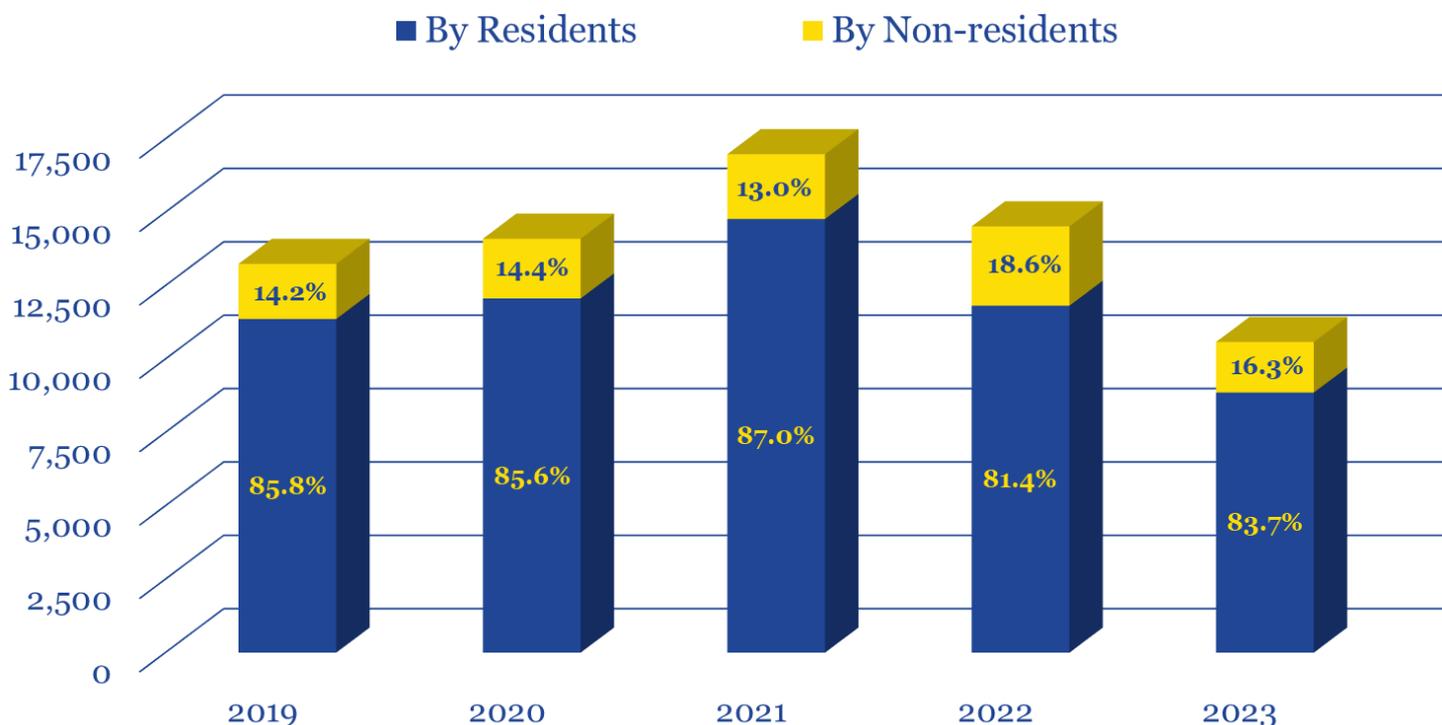


Figure 13. Trend in Trademark Registrations (under the National Procedure) in the 9 Months of the Year from 2019 to 2023

6. Copyright

During the 9 months of 2023, 6,048 applications for copyright were filed, which remains one of the best indicators in the last 5 years. Compared to the corresponding period of the previous year, the number of applications increased by 52.3%, and the number of contracts relating to the copyright in a work – by 80% (table 12, figure 14).

Table 12. Applications for Registration of Copyright and Contracts Relating to the Author's Right in a Work in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Copyright in a work	7,006	4,177	6,043	4,145	6,048	145.9%
Copyright in a work made for hire	1,121	623	889	367	823	224.3%
Contracts on the transfer (alienation) of property rights in a work	482	285	353	166	289	174.1%
Contracts transfer of the right to use a work	23	12	14	4	17	425.0%

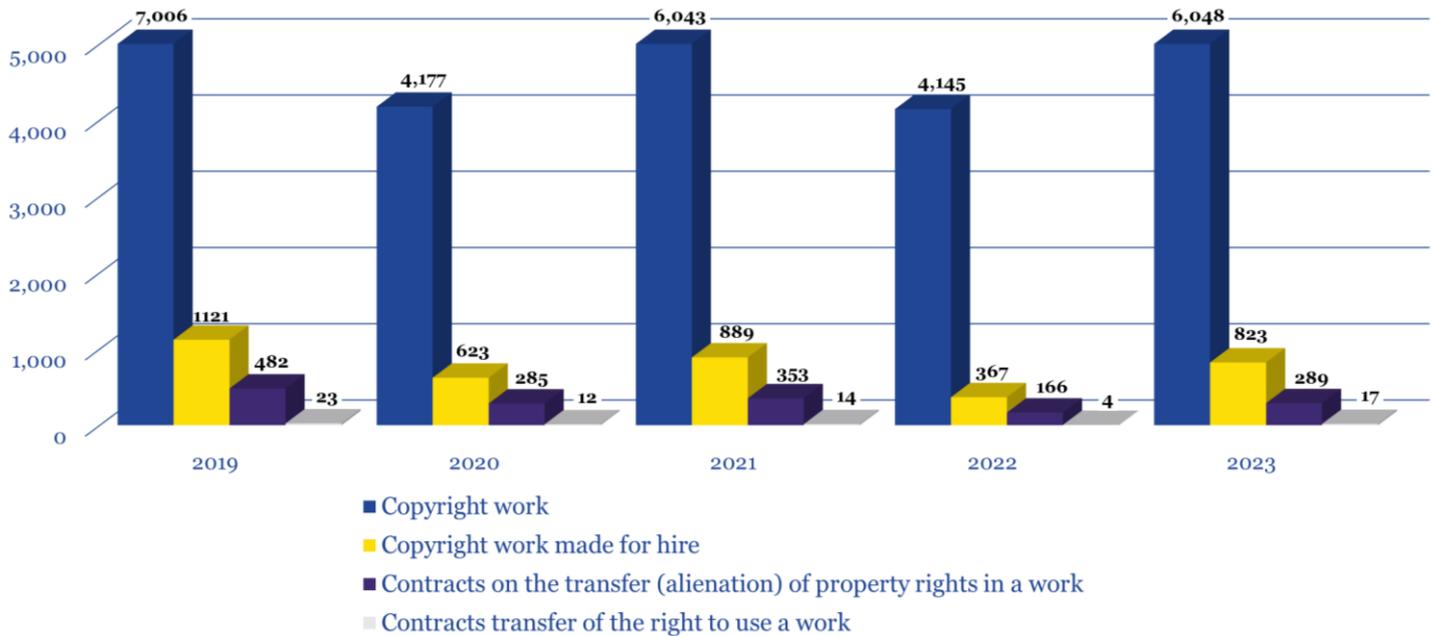


Figure 14. Trend in Applications for Registration of Copyright and Contracts Relating to the Author's Right in a Work in the 9 Months of the Year from 2019 to 2023

The registration indicators for copyright and contracts relating to the author's right in a work are decently high in the 9 months of 2023. In total, over 5 thousand state registrations for copyright in a work were made, increased by 28.4% compared to the indicator of 2022. Meanwhile 248 contracts relating to the copyright in a work were registered, doubled comparing to the corresponding period of the last year (table 13, figure 15).

Table 13. Registrations of Copyright and Contracts Relating to the Author's Right in a Work in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023	2023 to 2022
Copyright in a work	7,122	4,291	5,867	3,937	5,054	128.4%
Copyright in a work made for hire	1,275	606	925	376	715	190.2%
Contracts on the transfer (alienation) of property rights in a work	495	291	333	132	244	184.8%
Contracts transfer of the right to use a work	24	9	4	4	4	100%

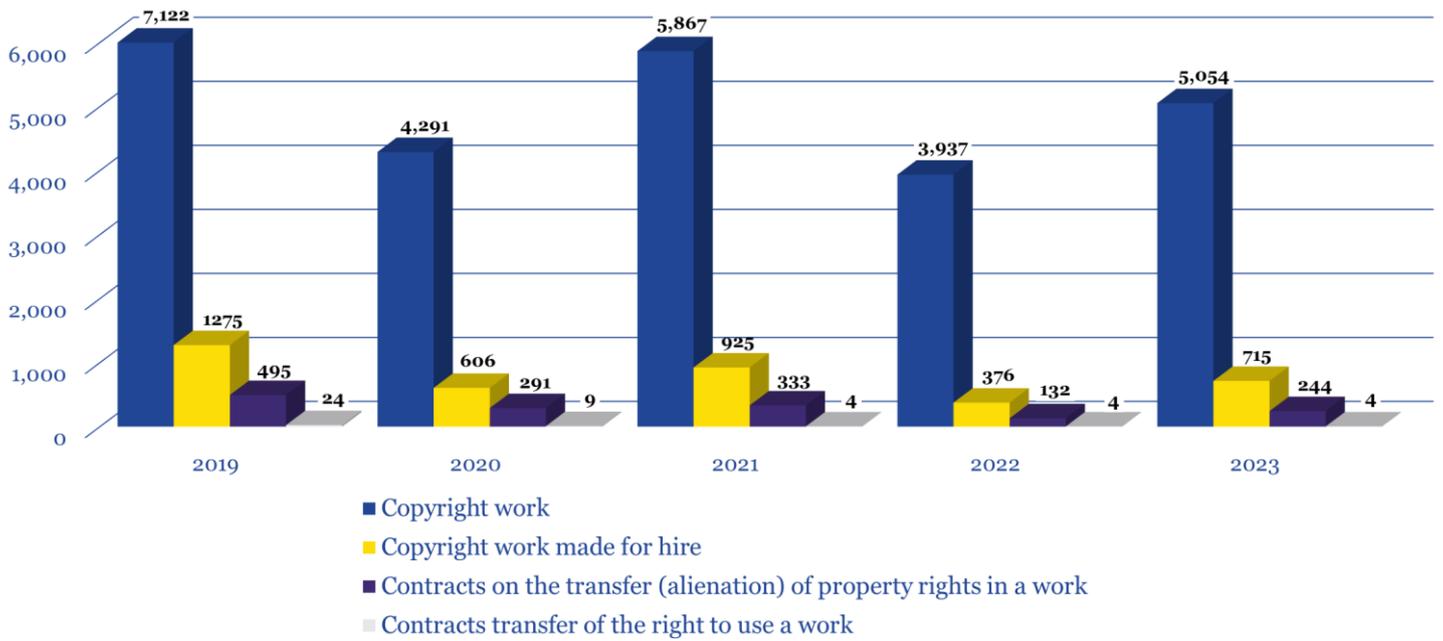


Figure 15. Trend in Registrations of Copyright and Contracts Relating to the Author's Right in a Work in the 9 Months of the Year from 2019 to 2023

Distribution of the state registrations of copyright in a work by subject matter is presented in the figure 16.

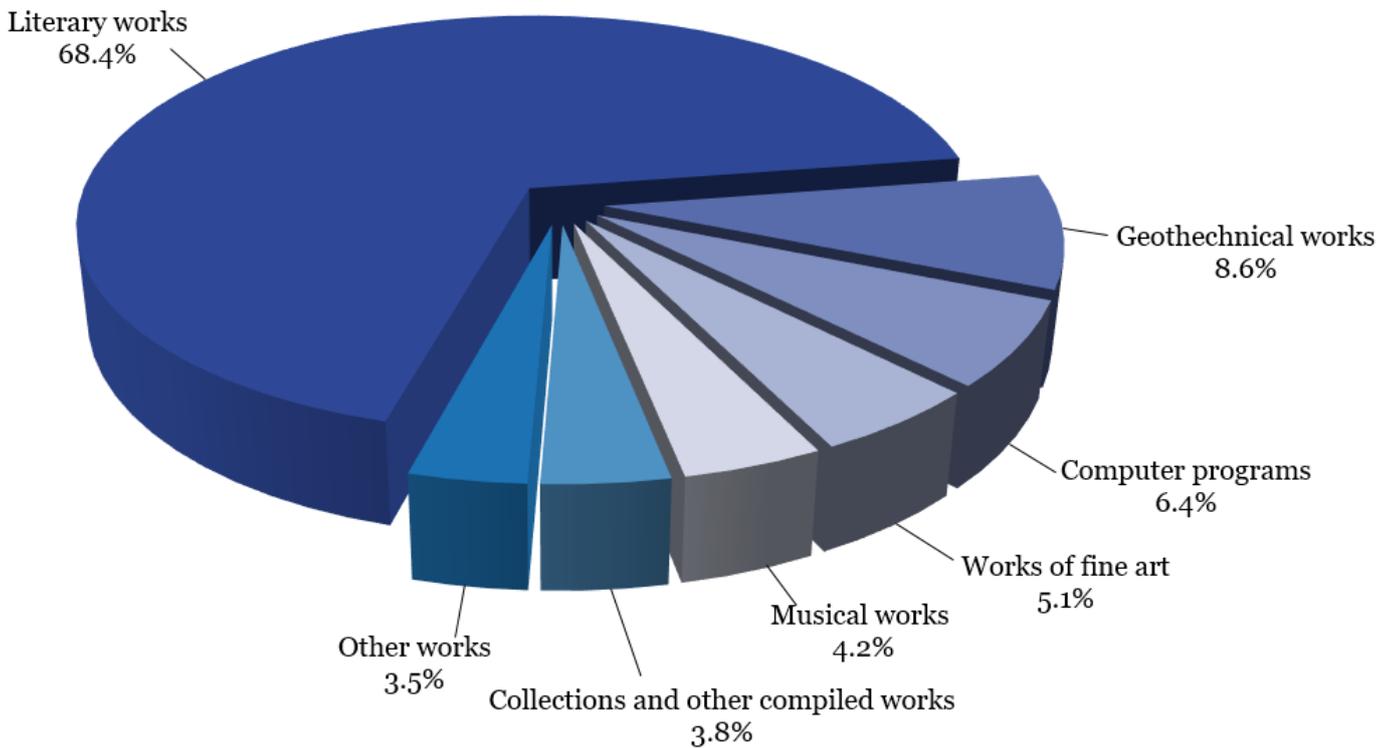


Figure 16. Distribution of the State Registrations of Copyright in a Work by Subject Matter in the 9 Months of 2023

II. Analysis of Inventive Activity of National Applicants

1. Applications for Inventions and Utility Models

The statistical data analysis of applications for inventions and utility models indicates that resident entities engaged in entrepreneurial activities understand the importance of protecting intellectual property rights quite well, as this activity is associated with significant investments and risks. Therefore, despite the challenging times Ukraine is currently experiencing, national businesses recognize that the future of every country depends on the development of the innovative sector. Compared to the previous year, the inventors activities of resident applicants in the 9 months of 2023 were increased by 46.0% (table 14, figure 17).

Table 14. Inventions and Utility Models Applications by Residents in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023 ²	2023 to 2022
Total	8,734	4,766	3,934	2,167	3,163	146.0%
Inventions, including	1,752	941	908	503	720	143.1%
legal entities	1,001	511	491	298	392	131.5%
individuals	751	430	417	205	328	160.0%
Utility models, including	6,982	3,825	3,026	1,664	2,443	146.8%
legal entities	4,793	2,394	1,909	1,036	1,531	147.8%
individuals	2,189	1,431	1,117	628	912	145.2%

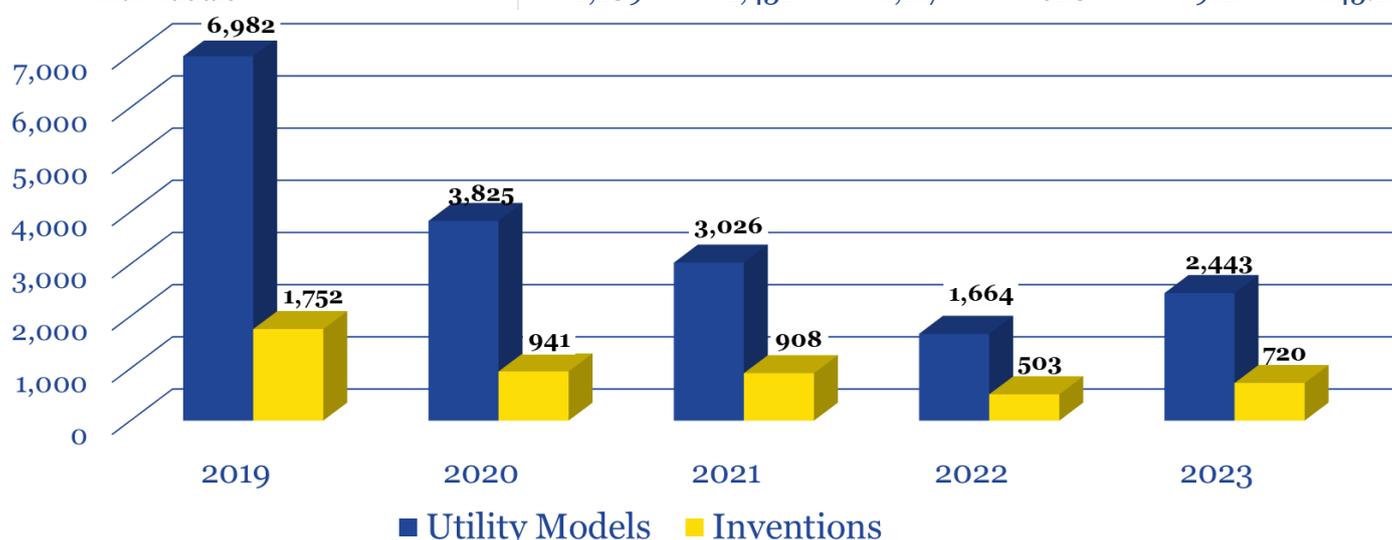


Figure 17. Trend Inventions and Utility Models Applications by Residents in the 9 Months of the Year from 2019 to 2023

Distribution of applications for inventions and utility models from resident legal entities in the 9 months of the year from 2019 to 2023 categorized by economic activities and by government authorities is presented in annexes 3, 4, 5, 6.

Higher educational institutions and scientific organizations with the highest inventive activity are presented in annexes 7, 8.

The most active applicants among higher educational institutions under the Ministry of Education and Science of Ukraine in the 9 months of 2023 were the following applicants (figure 18):

- Vinnytsia National Technical University – 123 applications;
- National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute» - 64 applications;
- Lviv Polytechnic National University – 63 applications;
- Kharkiv National Automobile and Highway University – 58 applications;
- Kryvyi Rih National University – 50 applications;
- Ternopil Ivan Puluj National Technical University – 48 applications;
- Lutsk National Technical University – 33 applications;
- National University of Food Technologies – 32 applications;
- Central Ukrainian National Technical University – 25 applications;
- Volodymyr Dahl East Ukrainian National University – 24 applications;
- National University of Life and Environmental Sciences of Ukraine – 23 applications.

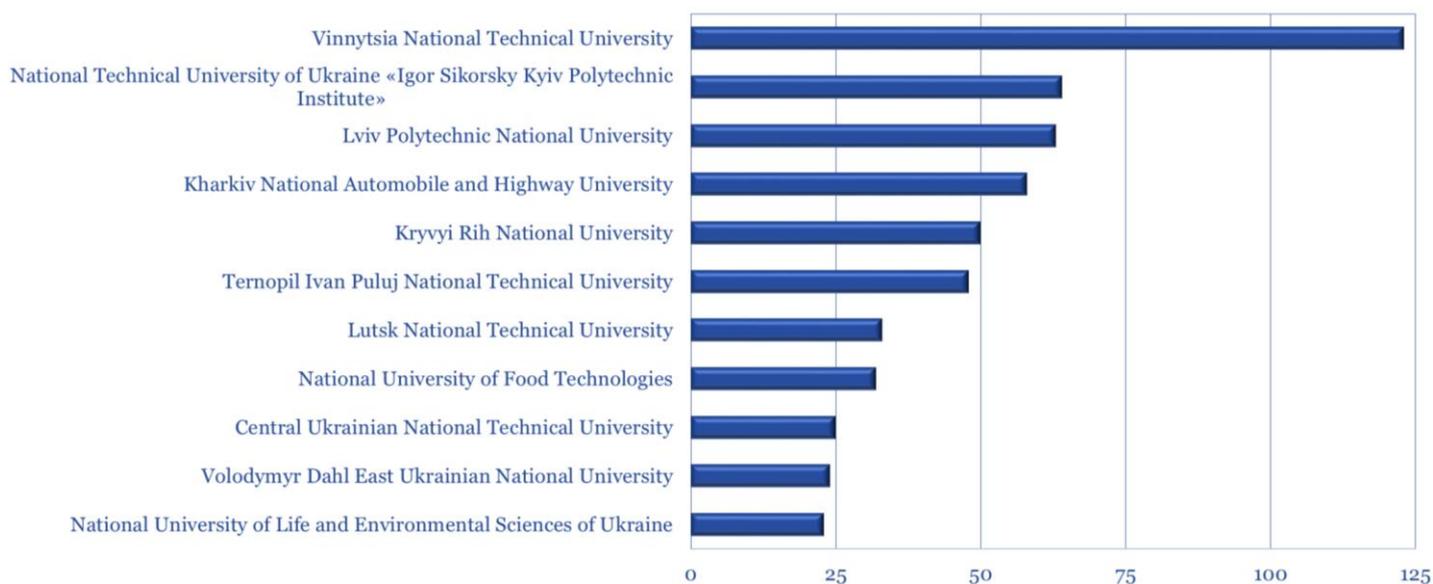


Figure 18. Higher Educational Institutions under the Ministry of Education and Science of Ukraine with the Highest Inventive Activity in the 9 Months of 2023

Among institutions of the National Academy of Sciences (NAS) of Ukraine with the highest inventive activity in the 9 months of 2023 were (figure 19):

- Institute of Engineering Thermophysics – 24 applications;
- M.S. Poliakov Institute of Geotechnical Mechanics – 19 applications;
- General Energy Institute – 11 applications;
- V. Bakul Institute for Superhard Materials – 10 applications;
- V.E. Lashkaryov Institute of Semiconductor Physics – 7 applications;
- Institute of Pulse Processes and Technologies – 7 applications;
- Institute of Electrodynamics – 7 applications;
- Institute for Problems in Materials Science of I.M. Fratsevich – 7 applications;
- L.V. Pisarzhevskii Institute of Physical Chemistry – 6 applications;
- Institute for Safety Problems of Nuclear Power Plants – 5 applications;
- V.P. Kukhar Institute of Bioorganic Chemistry and Petrochemistry – 5 applications;
- Institute of Thermoelectricity – 4 applications;
- The Institute of Renewable Energy – 4 applications.

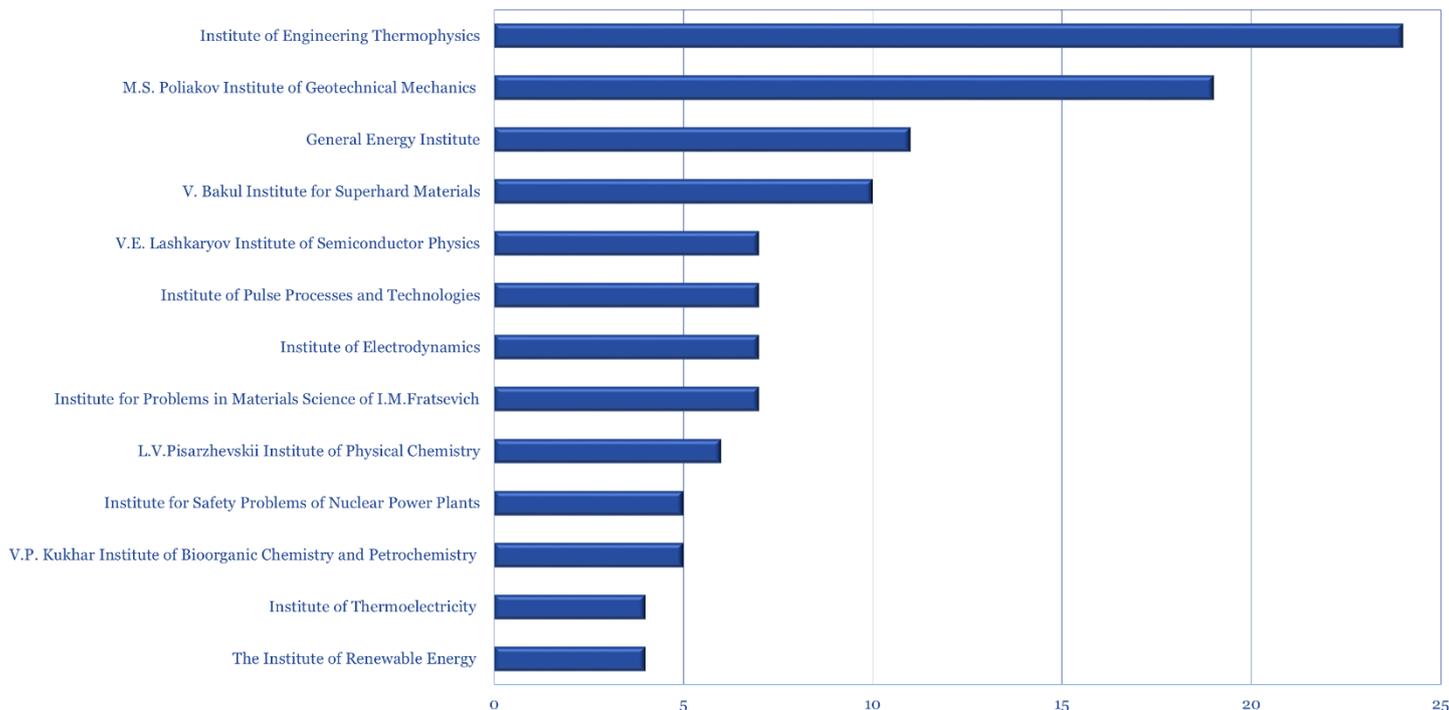


Figure 19. Institutions of National Academy of Sciences of Ukraine with the Highest Inventive Activity in the 9 Months of 2023

The leader in applications for inventions and utility models under the national procedure is taken by Kyiv with 851 applications (26.9% of the total number of resident applicants). The leading regions on the list are: Kharkiv – 454 applications (14.4%), Dnipropetrovsk – 272 applications (8.6%), Vinnytsia – 244 applications (7.7%), Lviv – 212 applications (6.7%), Kyiv – 135 applications (4.3%), Odesa – 116 applications (3.7%), Ternopil – 106 applications (3.3%), Poltava – 76 applications (2.4%) regions (figure 20, annex 9, 10).

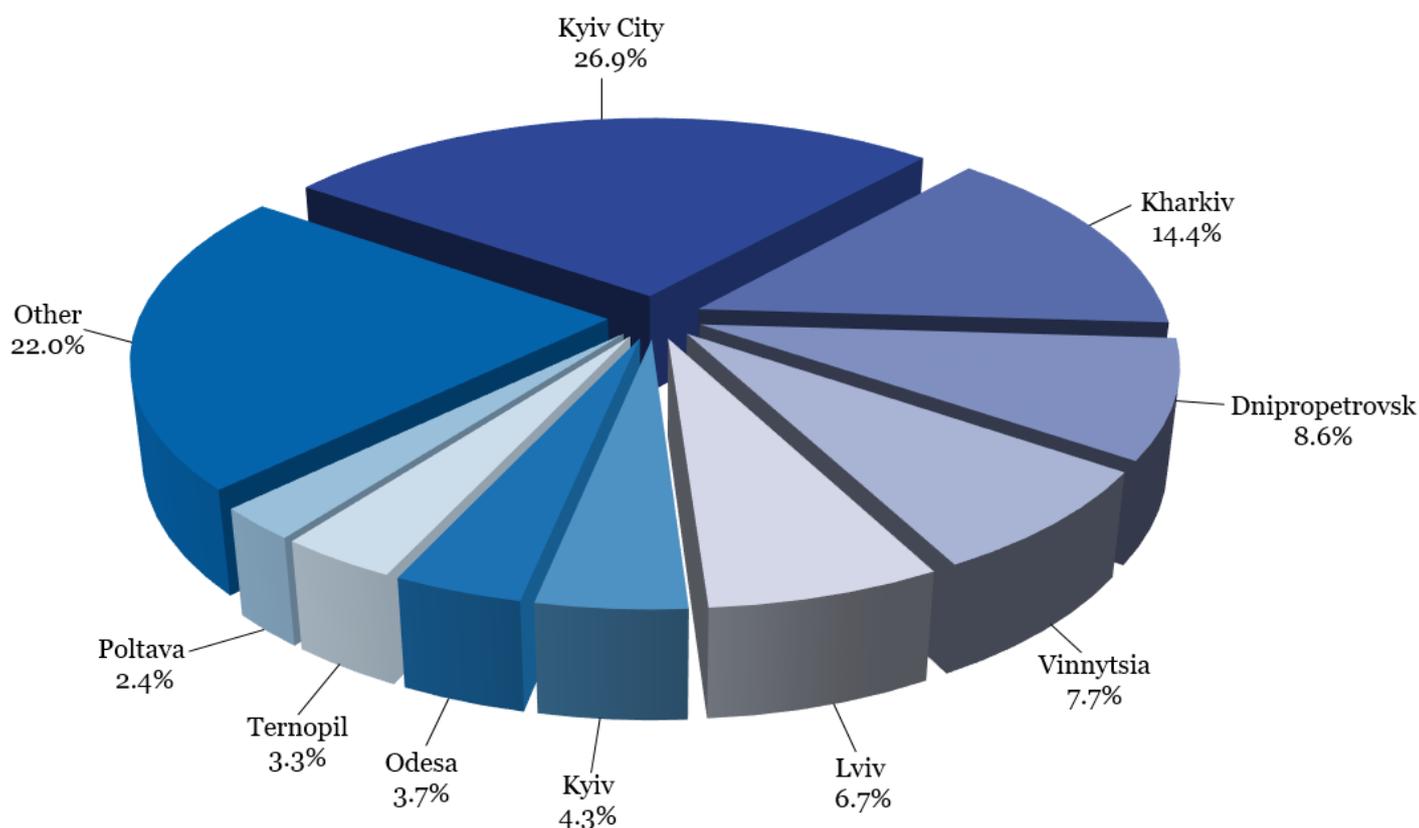


Figure 20. Applications for Inventions and Utility Models by Regions of Ukraine in the 9 Months of 2023

2. Registration of Inventions and Utility Models

Indicators of inventions and utility models registrations in the 9 months of 2023 remained almost on the same level as the indicators of the corresponding period the previous year. The total number of registrations from resident applicants is 2,155, while comparing the corresponding period of the 2022 and 2023 number of utility models registrations increased by 2.5% (table 15, figure 21).

Table 15. Inventions and Utility Models Registrations by Residents in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023	2023 to 2022
Total	6,981	5,789	3,823	2,324	2,155	92.7%
Inventions, including						
legal entities	952	793	753	550	336	61.1%
individuals	627	529	506	335	231	69.0%
Utility models, including						
legal entities	325	264	247	215	105	48.8%
individuals	6,029	4,996	3,070	1,774	1,819	102.5%
legal entities	4,171	3,237	1,950	1,072	1,297	121.0%
individuals	1,858	1,759	1,120	702	522	74.4%

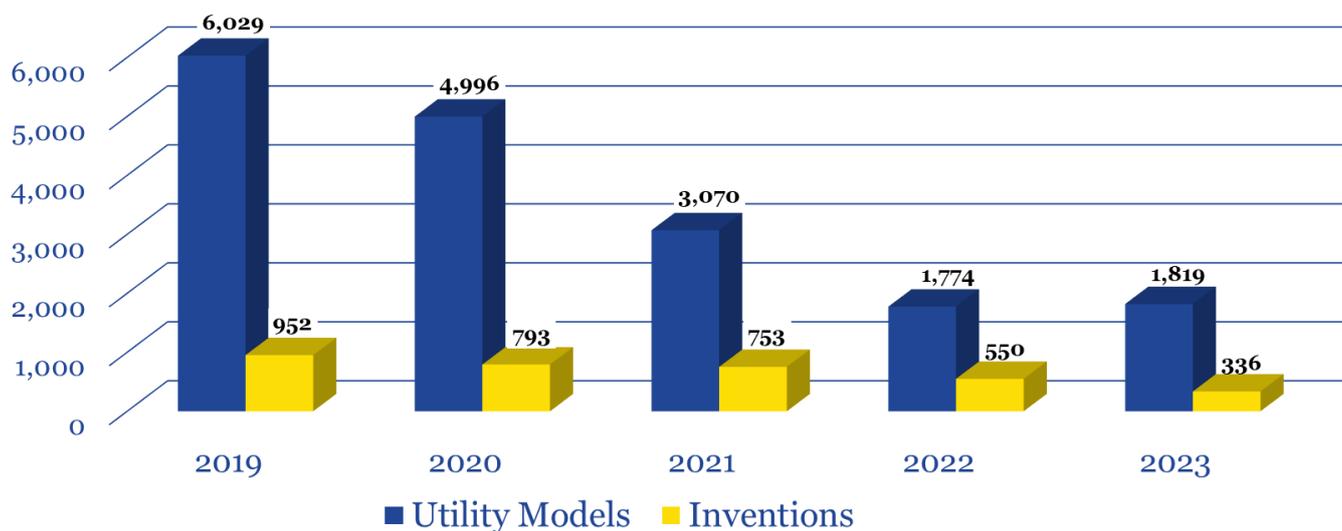


Figure 21. Trend in Inventions and Utility Models Registrations by Residents in the 9 Months of the Year from 2019 to 2023

Distribution of registrations for inventions and utility models by regions of Ukraine in the 9 months of the year from 2019 to 2023 is presented in annex 11.

Distribution of registrations for inventions and utility models from resident legal entities in the 9 months of the years from 2019 to 2023 categorized by economic activities is presented in annex 12.

III. Business Activity Analysis

Trademarks play a crucial role in the enterprise's development and popularization, as well as making customers distinguish its goods and services on the market. In 2021 alone, almost 14 million applications for trademarks were filed worldwide. The value of well-known brands serves as the best evidence of the importance of trademark registration.

UANIPIO provides businesses and other users with information about trademarks that have legal protection in Ukraine. Electronic filing of trademarks allows brand owners to submit applications online. Trademark registration allows the business to increase its recognition and promote its competitiveness of goods and services not only in the Ukrainian market but also in other countries.

1. Resident and Non-Resident Applicants with the Highest Number of Filed Applications for Trademarks

Compared with the 9 months of 2022, the number of resident applications for trademarks under the national procedure increased by 56.4%, and its share amounted to 72.3% of the total number of applications for trademarks. The number of filed applications by non-resident applicants under the national procedure increased as well – by 14.3% compared to the corresponding period of the previous year. The share of non-resident applications filed under the Madrid system amounted 68.4% out of all non-resident applications (table 16, figure 22).

Table 16. Applications for Trademarks in the 9 Months of the Year from 2019 to 2023¹

	2019	2020	2021	2022	2023²	2023 to 2022
Total	33,472	25,843	29,219	17,350	22,302	128.5%
By residents						
Under the national procedure	24,226	17,256	20,306	10,314	16,133	156.4%
By non-residents						
Under the national procedure	2,869	2,879	3,137	1,708	1,952	114.3%
Under the Madrid system	6,377	5,708	5,776	5,328	4,217	79.1%

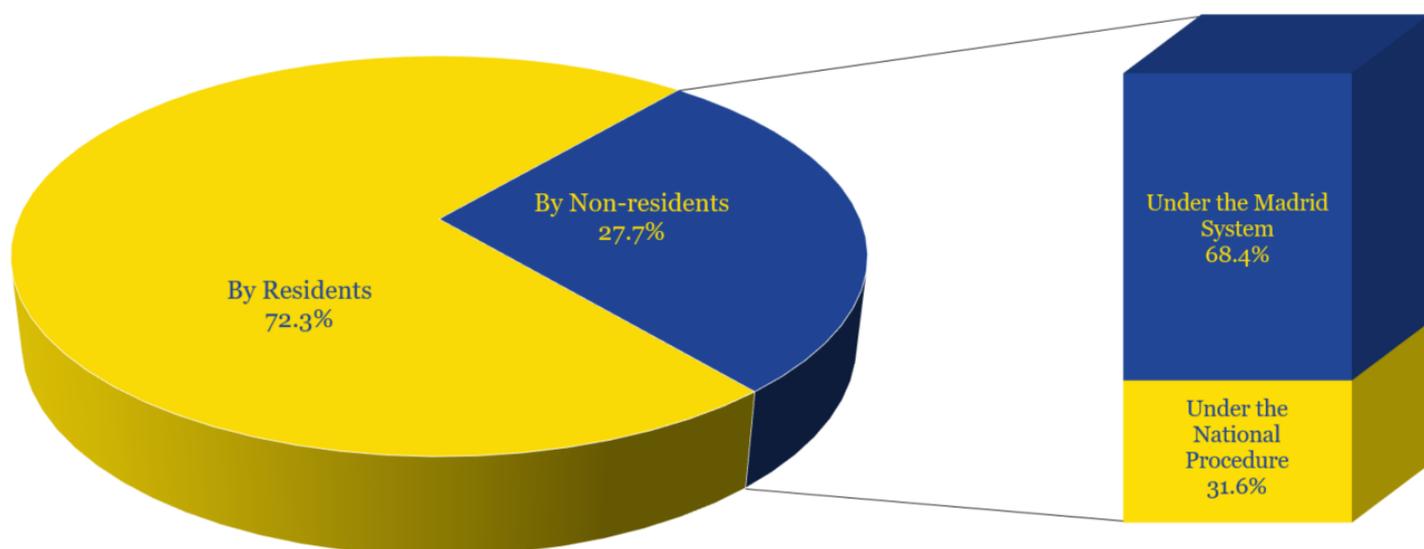


Figure 22. Correlation between Resident and Non-resident Applicants in the 9 Months of 2023

2. Business Priorities in the Goods and Services Sector

In the 9 months of 2023, the largest number of applications for trademarks under the national procedure was filed under the Class 35 of the Nice Classification (6,538 applications), which primarily includes services related to business management, operation, organization, and administration of trade or industrial enterprises, as well as advertising, marketing, and sales promotion services (table 17).

Table 17. Distribution Priorities of Applications for Trademarks by NCL Classes under the National Procedure for 9 Months of 2023

NCL Class	Class Heading	qty	By Residents	By Non-residents
35	Advertising; business management, organization and administration; office functions.	6,538	6,216	322
41	Education; providing of training; entertainment; sporting and cultural activities.	2,316	2,148	168
5	Pharmaceuticals, medical and veterinary preparations; sanitary preparations for medical purposes; dietetic food and substances adapted for medical or veterinary use, food for babies; dietary supplements for human beings and animals; plasters, materials for dressings; material for stopping teeth, dental wax; disinfectants; preparations for destroying vermin; fungicides, herbicides.	1,770	1,236	534
43	Services for providing food and drink; temporary accommodation.	1,454	1,412	42
30	Coffee, tea, cocoa and substitutes therefor; rice, pasta and noodles; tapioca and sago; flour and preparations made from cereals...	1,421	1,327	94
44	Medical services; veterinary services; hygienic and beauty care for human beings or animals; agriculture, aquaculture, horticulture and forestry services.	1,189	1,128	61
25	Clothing, footwear, headwear.	1,186	1,121	65
42	Scientific and technological services, research and design relating thereto...	1,166	1,023	143

Table extension 17

NCL Class	Class Heading	qty	By Residents	By Non-residents
9	Scientific, research, navigation, surveying, photographic, cinematographic, audiovisual, optical, weighing, measuring, signalling, detecting, testing, inspecting, life-saving and teaching apparatus and instruments...	1,142	918	224
29	Meat, fish, poultry and game; meat extracts; preserved, frozen, dried and cooked fruits and vegetables; jellies, jams, compotes; eggs; milk, cheese, butter, yogurt and other milk products; oils and fats for food.	936	886	50

Among the national companies with the highest number of filed applications for trademarks in the 9 months of 2023, there are (figure 23):

- Limited Liability Company SPACEIKS (Kyiv)
- Joint Stock Company FARMAK (Kyiv)
- Private Joint Stock Company OBOLON (Kyiv)
- Limited Liability Company RIVERGATE (Dnipropetrovsk region)
- Limited Liability Company DELTA MEDICAL (Kyiv region)
- Limited Liability Company KIDDISVIT (Dnipropetrovsk region)
- Limited Liability Company GAMEDEV (Kyiv)
- Limited Liability Company “Slots U.A.” (Kyiv)
- Limited Liability Company UKRAINIAN TOBACCO PRODUCTION (Rivne region)
- Limited Liability Company NATURPRODUKT – VEHA (Ternopil region)

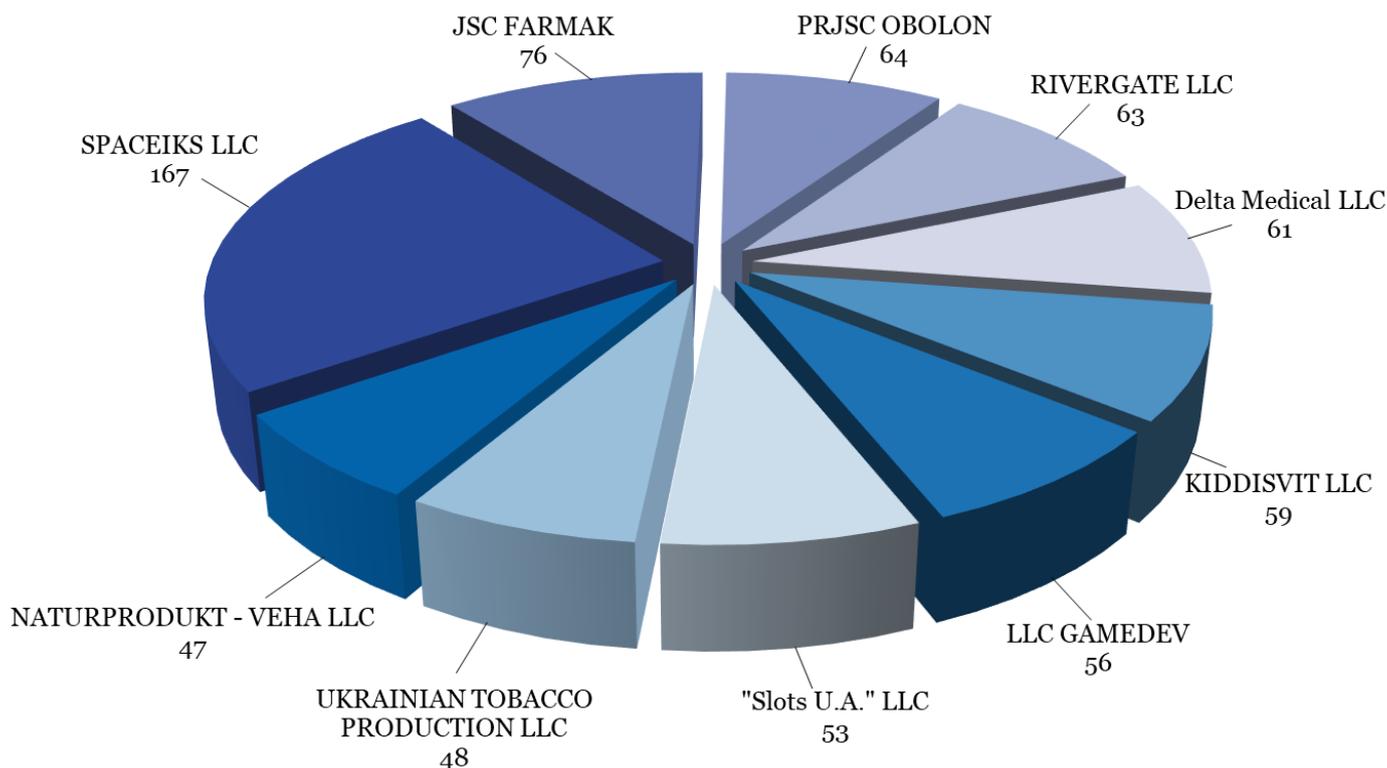


Figure 23. National Companies with the Highest Number of Filed Applications for Trademarks for the 9 Months of 2023

The leading foreign companies in terms of the number of applications for trademarks are (figure 24):

- GSH Trademarks Limited (Cyprus);
- Mistral Capital Management Limited (United Kingdom);
- Philip Morris Products S.A. (Switzerland);
- RIA.com Marketplaces OU (Estonia);
- Aqua NRG Investments Limited (Cyprus);
- British American Tobacco (Brands) Inc. (USA);
- British American Tobacco (Brands) Limited (United Kingdom);
- Rothmans of Pall Mall Limited (Switzerland);
- Farmak group Limited (Cyprus);
- Alpen Pharma AG (Switzerland).

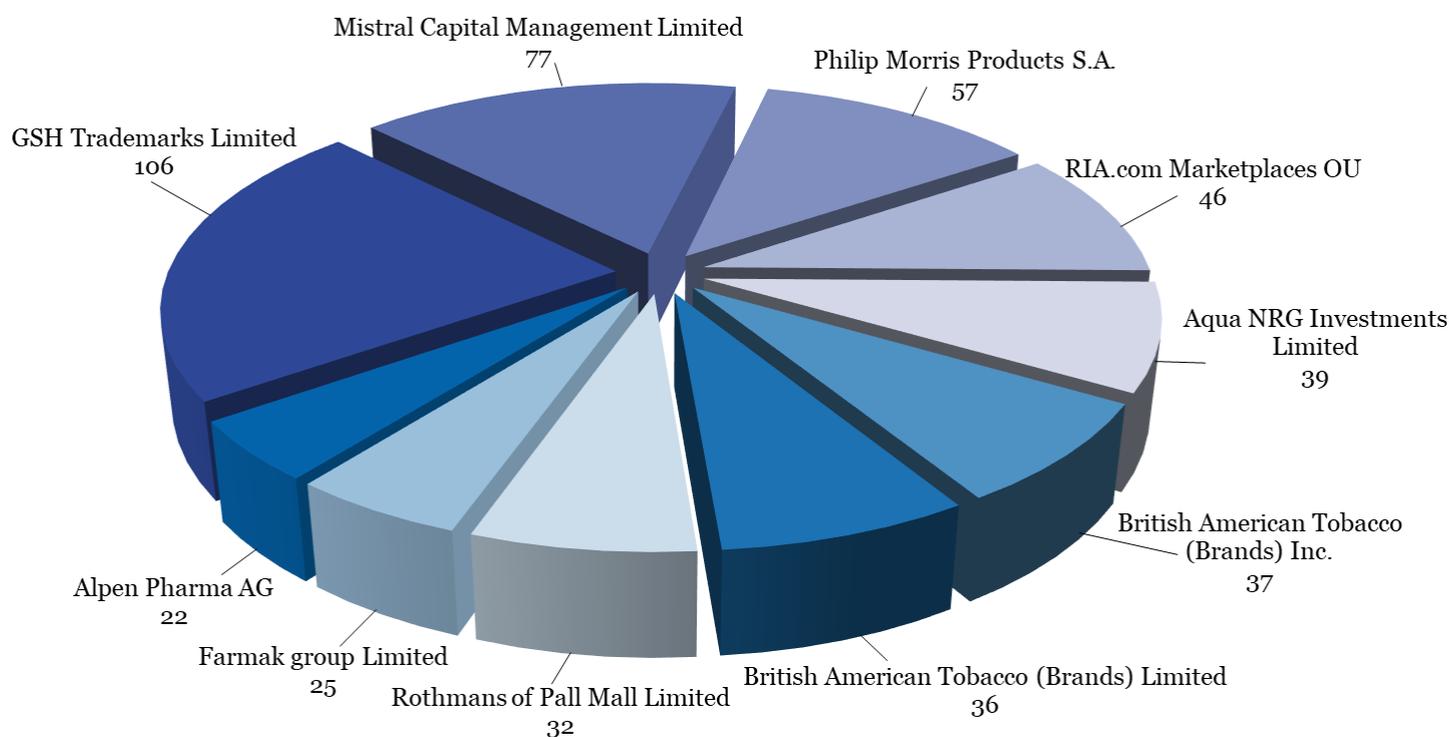


Figure 24. The Most Active Foreign Companies for the 9 Months of 2023

**Distribution of Resident Applications for Inventions by Technology Fields
in the 9 Months of the Year from 2019 to 2023**

	2019	2020	2021	2022	2023
Total	1,752	941	908	503	720
<i>Electrical engineering</i>					
Electrical machinery, apparatus, energy	70	44	40	19	24
Audio-visual technology	7	4	3	3	3
Telecommunications	14	12	7	–	4
Digital communication	5	4	2	–	–
Basic communication processes	10	12	8	6	3
Computer technology	26	14	23	12	11
IT methods for management	6	2	2	3	1
Semiconductors	6	5	5	2	2
<i>Instruments</i>					
Optics	10	2	13	3	3
Measurement	115	69	55	42	28
Analysis of biological materials	46	18	10	5	3
Control	37	18	15	11	5
Medical technology	123	76	47	19	24
<i>Chemistry</i>					
Organic fine chemistry	43	18	22	17	7
Biotechnology	22	8	7	8	4
Pharmaceuticals	130	57	40	17	24
Macromolecular chemistry, polymers	18	8	6	7	–
Food chemistry	90	37	39	30	13
Basic materials chemistry	58	28	34	8	8
Materials, metallurgy	70	49	61	43	33
Surface technology, coating	46	28	33	16	8
Micro-structural and nano-technology	11	4	7	4	4
Chemical engineering	99	46	35	26	17
Environmental technology	29	19	20	9	13
<i>Mechanical engineering</i>					
Handling	47	26	22	10	5
Machine tools	50	35	19	20	14
Engines, pumps, turbines	92	56	40	16	18
Textile and paper machines	13	2	2	3	5
Other special machines	128	56	70	37	34
Thermal processes and apparatus	36	24	8	9	9
Mechanical elements	53	21	27	7	5
Transport	73	27	47	21	18
<i>Others</i>					
Furniture, games	15	16	16	5	6
Other consumer goods	16	17	15	8	5
Civil engineering	88	38	54	27	31
Unknown	50	41	54	30	328

**Distribution of Non-resident Applications for Inventions by Technology Fields
in the 9 Months of the Year from 2019 to 2023**

	2019	2020	2021	2022	2023
Total	1,255	1,335	1,520	1,430	1,356
<i>Electrical engineering</i>					
Electrical machinery, apparatus, energy	24	19	23	27	30
Audio-visual technology	4	7	19	18	1
Telecommunications	2	3	4	3	2
Digital communication	3	10	9	9	2
Basic communication processes	1	2	–	–	–
Computer technology	14	19	17	18	14
IT methods for management	5	7	11	6	7
Semiconductors	–	–	–	–	1
<i>Instruments</i>					
Optics	2	1	1	1	1
Measurement	20	13	23	14	18
Analysis of biological materials	6	9	13	7	14
Control	9	6	11	6	5
Medical technology	27	35	24	23	19
<i>Chemistry</i>					
Organic fine chemistry	115	132	134	141	113
Biotechnology	136	118	160	166	115
Pharmaceuticals	238	284	335	293	236
Macromolecular chemistry, polymers	20	21	13	11	8
Food chemistry	52	48	35	46	35
Basic materials chemistry	112	95	125	101	105
Materials, metallurgy	55	61	53	63	61
Surface technology, coating	15	32	22	23	18
Micro-structural and nano-technology	–	–	1	1	–
Chemical engineering	31	39	30	29	29
Environmental technology	10	9	14	7	11
<i>Mechanical engineering</i>					
Handling	39	16	25	18	28
Machine tools	24	20	19	19	11
Engines, pumps, turbines	16	22	21	21	22
Textile and paper machines	18	6	13	14	12
Other special machines	87	70	72	69	75
Thermal processes and apparatus	17	15	17	14	14
Mechanical elements	12	23	14	20	11
Transport	16	36	19	18	23
<i>Others</i>					
Furniture, games	20	14	20	8	16
Other consumer goods	67	100	164	172	189
Civil engineering	34	33	53	37	43
Unknown	4	10	6	7	67

**Distribution of Resident Applications for Inventions from Legal Entities by Economic Activities
in the 9 Months of the Year from 2019 to 2023**

	2019	2020	2021	2022	2023
Total	1,001	511	491	298	392
Agriculture, forestry and fishing	6	–	–	–	–
Mining and quarrying	2	–	–	–	4
Manufacturing, including	37	40	18	13	8
Manufacture of food products, beverages and tobacco	1	4	1	1	2
Manufacture of textiles and textile products, leather and leather products	–	–	–	–	–
Manufacture of wood and wood products, paper and paper products; publishing and printing	1	–	–	1	–
Manufacture of coke and refined petroleum products	–	–	–	–	–
Manufacture of chemicals and chemical products	5	1	3	1	–
Manufacture of basic pharmaceutical products and pharmaceutical preparations	3	1	1	–	–
Manufacture of rubber and plastic products	6	3	–	–	–
Manufacture of fabricated metal products, except machinery and equipment	5	3	–	2	–
Manufacture of computer, electronic and optical products	3	3	2	2	1
Manufacture of electrical equipment	5	11	1	2	–
Manufacture of machinery and equipment n.e.c.	8	8	6	2	–
Manufacture of motor vehicles, trailers and semi-trailers and other transport equipment	–	4	4	2	1
Manufacture of furniture, Other products, Repair and installation of machinery and equipment	–	2	–	–	4
Electricity, gas, steam and air conditioning supply	–	1	–	–	–
Water supply; sewerage, waste management and remediation activities	–	–	–	–	–
Construction	–	1	2	–	–
Wholesale and retail trade; repair of motor vehicles and motorcycles	7	7	10	1	3
Transportation and storage	5	–	–	–	–
Information and communication	5	7	3	–	4
Financial and insurance activities	–	–	–	–	–
Real estate activities	–	–	–	–	–
Professional, scientific and technical activities	297	158	163	97	102
Scientific research and development	274	141	147	96	99
Administrative and support service activities	–	–	3	–	–
Education	626	289	291	175	230
Human health and social work activities	13	6	1	1	–
Other	3	2	–	11	41

Distribution of Resident Applications for Utility Models from Legal Entities by Economic Activities in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023
Total	4,793	2,394	1,909	1,036	1,531
Agriculture, forestry and fishing	6	9	3	2	1
Mining and quarrying	17	6	12	6	9
Manufacturing, including	169	126	86	48	28
Manufacture of food products, beverages and tobacco	16	7	5	–	2
Manufacture of textiles and textile products, leather and leather products	1	–	1	–	–
Manufacture of wood and wood products, paper and paper products; publishing and printing	4	5	1	1	–
Manufacture of coke and refined petroleum products	–	–	–	–	–
Manufacture of chemicals and chemical products	5	1	1	2	–
Manufacture of basic pharmaceutical products and pharmaceutical preparations	8	–	4	4	1
Manufacture of rubber and plastic products	14	11	8	9	7
Manufacture of fabricated metal products, except machinery and equipment	16	13	7	4	1
Manufacture of computer, electronic and optical products	19	4	4	1	2
Manufacture of electrical equipment	9	8	4	5	2
Manufacture of machinery and equipment n.e.c.	59	47	33	7	8
Manufacture of motor vehicles, trailers and semi-trailers and other transport equipment	16	27	13	14	3
Manufacture of furniture, Other products, Repair and installation of machinery and equipment	2	3	5	1	2
Electricity, gas, steam and air conditioning supply	–	1	–	–	–
Water supply; sewerage, waste management and remediation activities	–	1	–	–	1
Construction	6	2	3	–	–
Wholesale and retail trade; repair of motor vehicles and motorcycles	26	30	22	16	9
Transportation and storage	7	6	3	3	5
Information and communication	18	8	9	–	4
Financial and insurance activities	2	–	2	–	–
Real estate activities	5	2	2	–	1
Professional, scientific and technical activities	1,327	357	305	187	222
Scientific research and development	1,291	328	283	181	217
Administrative and support service activities	4	4	1	–	4
Education	3,120	1,757	1,433	710	1,135
Human health and social work activities	69	63	19	10	5
Other	17	22	9	54	107

Distribution of Resident Applications for Inventions and Utility Models from Legal Entities by Economic Activities in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023
Total	5,794	2,905	2,400	1,334	1,923
Agriculture, forestry and fishing	12	9	3	2	1
Mining and quarrying	19	6	12	6	13
Manufacturing, including	206	166	104	61	36
Manufacture of food products, beverages and tobacco	17	11	6	1	4
Manufacture of textiles and textile products, leather and leather products	1	–	1	–	–
Manufacture of wood and wood products, paper and paper products; publishing and printing	5	5	1	2	–
Manufacture of coke and refined petroleum products	–	–	–	–	–
Manufacture of chemicals and chemical products	10	2	4	3	–
Manufacture of basic pharmaceutical products and pharmaceutical preparations	11	1	5	4	1
Manufacture of rubber and plastic products	20	14	8	9	7
Manufacture of fabricated metal products, except machinery and equipment	21	16	7	6	1
Manufacture of computer, electronic and optical products	22	7	6	3	3
Manufacture of electrical equipment	14	19	5	7	2
Manufacture of machinery and equipment n.e.c.	67	55	39	9	8
Manufacture of motor vehicles, trailers and semi-trailers and other transport equipment	16	31	17	16	4
Manufacture of furniture, Other products, Repair and installation of machinery and equipment	2	5	5	1	6
Electricity, gas, steam and air conditioning supply	–	2	–	–	–
Water supply; sewerage, waste management and remediation activities	–	1	–	–	1
Construction	6	3	5	–	–
Wholesale and retail trade; repair of motor vehicles and motorcycles	33	37	32	17	12
Transportation and storage	12	6	3	3	5
Information and communication	23	15	12	–	8
Financial and insurance activities	2	–	2	–	–
Real estate activities	5	2	2	–	1
Professional, scientific and technical activities	1,624	515	468	284	324
Scientific research and development	1565	469	430	277	316
Administrative and support service activities	4	4	4	–	4
Education	3,746	2,046	1,724	885	1,365
Human health and social work activities	82	69	20	11	5
Other	20	24	9	65	148

Distribution of Resident Applications for Inventions and Utility Models from Legal Entities by Government Agencies in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023
Total	5,794	2,905	2,400	1,334	1,923
Ministry of Education and Science of Ukraine	2,808	1,338	1,277	749	1,072
The National Academy of Sciences of Ukraine	536	234	262	177	206
Ministry of Health of Ukraine	1,452	644	350	47	139
Ministry of Defence of Ukraine	37	25	30	44	78
The National Academy of Agrarian Sciences (NAAS) of Ukraine	141	92	92	50	55
State Emergency Service of Ukraine	53	33	51	34	50
State Reserve Agency of Ukraine	–	–	3	10	21
National Academy of Medical Sciences of Ukraine	194	123	37	21	16
The Ukroboronprom State Concern	9	6	6	18	13
Ministry of Internal Affairs of Ukraine	19	8	10	7	11
Government of Ukraine	29	12	18	7	10
Security Service of Ukraine	–	11	2	4	4
Ministry of Economy of Ukraine	25	3	6	4	4
Other	491	376	256	162	244

Higher Educational Institutions of Ukraine with the Highest Inventive Activity Based on Applications for Inventions and Utility Models in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023
Total	3,746	2,046	1,724	885	1,367
Vinnitsia National Technical University	94	46	63	22	123
National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»	184	28	25	36	64
Lviv Polytechnic National University	60	44	45	57	63
Ivan Kozhedub National Air Force University	10	12	18	30	61
Kharkiv National Automobile and Highway University	56	28	17	8	58
National Pirogov Memorial Medical University, Vinnytsya	38	105	7	3	55
Kryvyi Rih National University	26	19	25	35	50
Ternopil Ivan Puluj National Technical University	39	45	11	18	48
National University of Civil Protection of Ukraine	51	28	42	30	41
Lutsk National Technical University	17	8	26	15	33
National University of Food Technologies	234	40	26	22	32
Central Ukrainian National Technical University	36	21	21	16	25
Volodymyr Dahl East Ukrainian National University	23	26	46	22	24
National University of Life and Environmental Sciences of Ukraine	173	46	52	34	23
Uzhhorod National University	54	51	41	24	22
National Technical University – «Kharkiv Polytechnic Institute»	158	39	45	13	22
Sumy National Agrarian University	18	23	6	9	22
Higher Educational Institution «Podillia State University»	11	1	9	11	21
I. Horbachevsky Ternopil National Medical University	148	229	233	7	20
Ivan Franko National University of Lviv	20	6	5	15	18
The National University of Water and Environmental Engineering	42	16	16	23	18
Odesa National University of Technology	79	35	24	10	17
Oles Honchar Dnipro National University	42	15	16	15	16
Poltava State Medical University	–	–	2	2	16
Vinnitsia National Agrarian University	16	9	16	8	16
Uman National University of Horticulture	28	12	32	32	16
Dnipro University of Technology	19	12	21	23	15
The National Defence University of Ukraine named after Ivan Cherniakhovskiy	11	6	9	10	15
National University «Odessa Maritime Academy»	7	16	21	6	15
Ukrainian State University of Railway Transport	12	13	26	2	15
Other	2,040	1,067	778	327	383

Scientific Organizations of Ukraine with the Highest Inventive Activity Based on Applications for Inventions and Utility Models in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023
Total	1,565	469	430	277	316
Institute of Engineering Thermophysics of NAS of Ukraine	26	7	16	7	24
The Ukrainian State Scientific Research Institute «Resurs»	–	–	3	10	21
M.S. Poliakov Institute of Geotechnical Mechanics of NAS of Ukraine	55	16	39	12	19
General Energy Institute of NAS of Ukraine	–	–	–	7	11
V. Bakul Institute for Superhard Materials	16	15	12	13	10
V.E. Lashkaryov Institute of Semiconductor Physics of NAS of Ukraine	20	7	11	14	7
Institute of Pulse Processes and Technologies of NAS of Ukraine	14	4	2	2	7
Physical-Chemical Institute for Environmental and Human Protection under NAS and MES of Ukraine	9	19	9	6	7
Institute for Problems in Materials Science of I.M.Fratsevich of NAS of Ukraine	15	8	6	–	7
Institute of Thermoelectricity	14	10	10	3	7
L.V.Pisarzhhevskii Institute of Physical Chemistry of NAS of Ukraine	20	6	9	11	6
Institute of Veterinary Medicine of the NAAS	1	1	1	2	6
Institute for Safety Problems of Nuclear Power Plants	–	–	2	2	5
V.P. Kukhar Institute of Bioorganic Chemistry and Petrochemistry	19	5	–	–	5
Sytenko Institute of Spine and Joint Pathology National Academy of Medical Sciences of Ukraine	12	5	2	3	5
Joint-Stock Company «Scientific and Technological Complex “ELECTROPRYLAD”»	–	–	–	2	4
Ukrainian Institute for Plant Variety Examination	–	–	4	–	4
Institute of Thermoelectricity under NAS and MES of Ukraine	15	2	5	5	4
The Institute of Renewable Energy of NAS of Ukraine	4	5	6	1	4
National Scientific Center «Institute of Experimental and Clinical Veterinary Medicine»	20	16	7	1	4
O. Ya. Usikov Institute for Radio Physics and Electronics	5	–	–	–	4
S.P. Timoshenko Institute of Mechanics of NAS of Ukraine	2	1	–	–	4
Chuiko Institute of Surface Chemistry under NAS of Ukraine	16	5	9	1	4
O. V. Bogatsky Physico-Chemical Institute of NAS of Ukraine	6	1	1	3	4
Other	1,276	336	276	172	133

**Resident Applications for Inventions and Utility Models by Region of Ukraine
in the 9 Months of the Year from 2019 to 2023**

	Utility Models					Inventions				
	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023
Total	6,982	3,825	3,026	1,664	2,443	1,752	941	908	503	720
The Autonomous Republic of Crimea	2	5	–	–	–	1	1	1	–	–
Vinnitsia	810	166	102	46	219	34	31	21	12	25
Volyn	38	48	46	24	60	4	1	6	5	3
Dnipropetrovsk	567	317	297	169	216	152	89	102	70	56
Donetsk	211	130	88	14	68	55	27	21	3	14
Zhytomyr	71	47	23	14	13	19	13	9	9	6
Zakarpattia	58	53	31	18	27	33	30	21	12	17
Zaporizhzhia	244	243	100	24	43	38	27	32	17	20
Ivano-Frankivsk	108	65	53	34	34	39	25	24	13	11
Kyiv Region	125	76	73	54	88	47	36	44	18	47
Kirovohrad	47	29	29	21	30	21	13	9	4	7
Luhansk	86	70	70	27	27	15	6	9	1	5
Lviv	282	154	141	113	136	82	30	56	44	76
Mykolayiv	117	37	56	11	35	20	12	13	6	7
Odesa	288	186	133	67	85	120	56	67	33	31
Poltava	193	126	101	76	68	25	13	15	1	8
Rivne	85	31	30	34	27	9	1	2	1	2
Sumy	88	68	50	31	58	21	16	25	13	18
Ternopil	253	297	268	46	83	25	18	9	7	23
Kharkiv	1,095	515	438	227	364	291	147	114	54	90
Kherson	109	69	43	20	10	19	17	11	3	2
Khmelnyskyi	69	38	45	30	57	8	8	2	–	5
Cherkasy	107	47	68	61	49	42	9	2	8	3
Chernivtsi	165	80	38	24	19	4	1	2	1	1
Chernihiv	40	17	25	19	12	15	11	8	1	3
Kyiv	1,722	909	677	457	611	613	303	282	166	240
Sevastopol	2	–	1	–	3	–	–	1	–	–
Objects with a limited access	–	2	–	2	–	–	–	–	–	–
Unknown	–	–	–	1	1	–	–	–	1	–

**Resident Applications for Inventions and Utility Models by Region of Ukraine
in the 9 Months of the Year from 2019 to 2023**

	2019	2020	2021	2022	2023
Total	8,734	4,766	3,934	2,167	3,163
The Autonomous Republic of Crimea	3	6	1	–	–
Vinnitsia	844	197	123	58	244
Volyn	42	49	52	29	63
Dnipropetrovsk	719	406	399	239	272
Donetsk	266	157	109	17	82
Zhytomyr	90	60	32	23	19
Zakarpattia	91	83	52	30	44
Zaporizhzhia	282	270	132	41	63
Ivano-Frankivsk	147	90	77	47	45
Kyiv Region	172	112	117	72	135
Kirovohrad	68	42	38	25	37
Luhansk	101	76	79	28	32
Lviv	364	184	197	157	212
Mykolayiv	137	49	69	17	42
Odesa	408	242	200	100	116
Poltava	218	139	116	77	76
Rivne	94	32	32	35	29
Sumy	109	84	75	44	76
Ternopil	278	315	277	53	106
Kharkiv	1,386	662	552	281	454
Kherson	128	86	54	23	12
Khmelnyskyi	77	46	47	30	62
Cherkasy	149	56	70	69	52
Chernivtsi	169	81	40	25	20
Chernihiv	55	28	33	20	15
Kyiv	2,335	1,212	959	623	851
Sevastopol	2	–	2	–	3
Objects with a limited access	–	2	–	2	–
Unknown	–	–	–	2	1

**Resident Registrations for Inventions and Utility Models by Region of Ukraine
in the 9 Months of the Year from 2019 to 2023**

	Utility Models					Inventions				
	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023
Total	6,029	4,996	3,070	1,774	1,819	952	793	753	550	336
The Autonomous Republic of Crimea	7	4	5	–	–	2	2	–	–	–
Vinnitsia	187	253	128	56	108	16	14	13	7	5
Volyn	29	20	45	23	46	3	3	4	1	3
Dnipropetrovsk	485	430	351	187	160	84	88	63	76	30
Donetsk	206	168	92	28	28	27	23	29	12	13
Zhytomyr	59	45	23	13	14	11	11	11	2	1
Zakarpattia	61	57	39	14	22	16	17	15	11	13
Zaporizhzhia	324	216	244	61	32	23	23	15	13	12
Ivano-Frankivsk	88	82	44	33	35	22	15	13	14	10
Kyiv Region	94	106	90	44	54	37	21	21	32	18
Kirovohrad	56	49	34	26	30	16	12	14	5	1
Luhansk	109	57	46	12	22	6	3	5	2	1
Lviv	247	209	124	86	111	51	52	50	29	8
Mykolayiv	111	72	40	26	18	13	12	10	8	3
Odesa	267	210	118	80	52	84	52	40	32	15
Poltava	174	135	101	68	49	2	7	8	6	4
Rivne	74	57	37	19	26	2	1	–	–	2
Sumy	54	90	46	37	45	10	11	12	7	7
Ternopil	269	268	64	41	45	7	7	10	7	6
Kharkiv	908	759	397	348	314	146	124	115	82	42
Kherson	76	71	43	19	17	6	2	3	1	1
Khmelnyskyi	82	51	51	27	38	2	2	2	1	1
Cherkasy	63	87	56	30	44	8	5	12	4	4
Chernivtsi	188	121	71	36	15	4	2	1	1	1
Chernihiv	44	23	19	10	11	10	12	7	6	2
Kyiv	1,766	1,353	762	449	481	344	271	280	191	133
Sevastopol	–	–	–	1	–	–	1	–	–	–
Objects with a limited access	1	3	–	–	2	–	–	–	–	–

Distribution of Resident Registrations for Both Inventions and Utility Models from Legal Entities by Economic Activities in the 9 Months of the Year from 2019 to 2023

	2019	2020	2021	2022	2023
Total	4,798	3,766	2,456	1,407	1,528
Agriculture, forestry and fishing	13	7	4	–	3
Mining and quarrying	20	8	11	5	11
Manufacturing, including	158	156	148	49	40
Manufacture of food products, beverages and tobacco	10	9	12	–	–
Manufacture of textiles and textile products, leather and leather products	–	2	1	1	–
Manufacture of wood and wood products, paper and paper products; publishing and printing	6	5	2	1	–
Manufacture of coke and refined petroleum products	–	–	–	–	–
Manufacture of chemicals and chemical products	5	4	4	–	1
Manufacture of basic pharmaceutical products and pharmaceutical preparations	15	5	5	2	2
Manufacture of rubber and plastic products	9	9	24	7	7
Manufacture of fabricated metal products, except machinery and equipment	24	12	12	9	2
Manufacture of computer, electronic and optical products	10	15	6	6	2
Manufacture of electrical equipment	4	14	11	3	7
Manufacture of machinery and equipment n.e.c.	51	59	41	14	3
Manufacture of motor vehicles, trailers and semi-trailers and other transport equipment	18	17	24	5	16
Manufacture of furniture, Other products, Repair and installation of machinery and equipment	6	5	6	1	–
Electricity, gas, steam and air conditioning supply	1	–	–	–	–
Water supply; sewerage, waste management and remediation activities	1	–	2	–	1
Construction	4	2	3	1	1
Wholesale and retail trade; repair of motor vehicles and motorcycles	31	32	30	10	16
Transportation and storage	5	3	4	2	2
Information and communication	22	12	9	5	–
Financial and insurance activities	2	–	2	–	–
Real estate activities	4	5	2	–	–
Professional, scientific and technical activities	971	776	468	353	293
Scientific research and development	924	721	432	327	290
Administrative and support service activities	3	4	1	1	–
Education	3,460	2,640	1,721	937	1,081
Human health and social work activities	78	96	21	8	11
Other	25	25	30	36	69

**Non-resident Applications for Trademarks under the National Procedure by Origin
in the 9 Months of the Year from 2019 to 2023**

	2019	2020	2021	2022	2023
Total	2,869	2,879	3,137	1,708	1,952
Cyprus	362	406	347	226	296
United States of America	545	593	591	317	292
Switzerland	306	287	329	168	210
United Kingdom	175	111	142	85	178
China	178	141	206	131	139
Poland	72	62	72	51	98
Germany	83	105	124	91	83
Estonia	25	21	34	7	54
Japan	71	81	64	33	38
Hong Kong, China	16	50	21	13	34
Republic of Korea	80	98	61	57	33
Lithuania	30	29	23	9	27
Austria	12	26	28	14	27
Netherlands	37	39	66	37	26
Latvia	22	8	6	4	25
France	52	47	102	20	24
Israel	28	31	21	16	24
Portugal	3	1	4	3	24
India	171	90	122	35	19
Türkiye	29	26	50	25	18
British Virgin Islands	3	13	6	27	18
United Arab Emirates	29	35	60	23	17
Italy	56	21	46	10	15
Other	484	558	612	306	233