



UKRAINE



# ANNUAL REPORT

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UKRAINIAN  
INTELLECTUAL  
PROPERTY  
INSTITUTE  
(UKRPATENT)

# 2019

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**Dear colleagues!**

Effective support for innovation and development of creative potential hold a special place in the strategy of the state growth. The modern world is changing extra fast, so the ability of public institutions to respond flexibly to such changes is essential to strengthen position of Ukraine in the global innovation space.

Traditionally, I present an annual report on the activities of the examining authority that the State Enterprise "Ukrainian Intellectual Property Institute" (Ukrpatent) today is. This report shows the main achievements and developments of the past year.

In 2019, Ukrpatent continued to work effectively as an International Searching Authority (ISA) and International Preliminary Examining Authority (IPEA) under the Patent Cooperation Treaty (PCT) representing Ukraine among 23 leading patent offices of the world appointed by the World Intellectual Property Organization (WIPO) to function in this status. Ukrpatent carries out international search and international preliminary examination of international applications filed by Ukrainian applicants both with Ukrpatent as a receiving Office and with the International Bureau of WIPO as a receiving Office.

One of the indicators of Ukraine's active participation in the development of the global intellectual property (IP) system is the continuing close cooperation with WIPO. Ukrpatent specialists regularly participate in the work of WIPO governing bodies as well as committees and working groups of this organization. In October 2019, the Ukrainian delegation including representatives of Ukrpatent took an active part at the Fifty-Ninth Series of Meetings of the Assemblies of the Member States of WIPO in Geneva. During official meetings with Francis Gurry, the WIPO Director General, and Michal Svantner, the Director of Department for Transition and Developed Countries, the WIPO executives expressed appreciation for the activity of Ukrpatent, indicating an increase in the number of international applications filed by Ukrainian applicants.

Since 2014, representatives of Ukrpatent have been participants in annual sessions of the Meeting of International Authorities under the Patent Cooperation Treaty (PCT) and meetings of the Quality Subgroup of the Meeting of International Authorities under the PCT. In 2019, Ukrpatent specialists presented the Ukrainian Examining Authority at the Twenty-Sixth Session of the Meeting of International Authorities under the PCT held at the Egyptian Patent Office (Cairo) under the auspices of WIPO.

In the framework of international cooperation, the official delegation of the China Council for the Promotion of International Trade (CCPIT), Guangzhou, the official delegation of the French Embassy in Ukraine headed by the Counselor for Intellectual Property in the CIS, Nelson Emery, visited Ukrpatent as well as the Head of the Training and Innovation Promotion Center of the Office for Examination of Patents and Trademarks of the Intellectual Property Agency of the Republic of Azerbaijan (Azpatent), Ali Ismailov. At the local level, working meetings were held with IP specialists, IP representatives (patent attorneys), and representatives of state authorities and the general public.

Ukrpatent in its capacity as a national examining authority makes significant efforts to implement the concept of transition to paperless technology ensuring continuous improvement of the introduced technological systems and development of new integrated solutions covering the entire business cycle of the examining authority. It is worth noting the steady increase in the share of applications for industrial property rights (IPR) filed through the electronic filing system. In 2019, this figure amounted to 30.8% of the total number of applications.

An important aspect of Ukrpatent activity is the improvement of technological systems that provide the access to information on IPR to applicants, holders of titles of protection, IP specialists and the general public. In June 2019, the Special Information System (SIS) with a universal interface to search published applications and registered in Ukraine titles of protection was introduced.

Ukrpatent is fully supportive of advanced training and professional knowledge development activities. Thus, through September-December 2019, the examiners of Ukrpatent branch divisions responsible for conducting examination of applications for inventions, participated in advanced distance learning courses of the WIPO Academy. In the past year, 20 specialists of the enterprise graduated from the Kyiv Institute of Intellectual Property and Law of the National University "Odessa Law Academy" and got a master's degree in IP.

More details on the performance and achievements of the state system of IP legal protection and of Ukrpatent in 2019 are presented further in the report. I would like to thank all the experts involved in the complex processes of reforming and improving of the IP system. I am convinced that our joint hard work will result in a new quality state service that will provide a solid foundation for further development of innovations in Ukraine.

**Yours sincerely,  
Director General**



**Andrew Kudin**



# 1 Examination of Applications and Registration of Industrial Property Rights

Within the powers provided by the laws of Ukraine "On the protection of rights to inventions and utility models", "On the protection of rights to industrial designs", "On the protection of rights to layout of semiconductor devices", "On the protection of rights to trademarks and service marks", "On the legal protection of geographical indications" Ukrpatent performs functions assigned

by the Ministry for Development of Economy, Trade and Agriculture of Ukraine as an authorized state authority, such as examination of applications for industrial property rights protection, preparation of information for the state registration of industrial property rights, maintenance of state registers.



In 2019 a total of about 3.9 thousand applications for inventions, 8.5 thousand those for utility models, 2.7 thousand applications for industrial designs and almost 42.2 thousand

applications for trademarks and service marks (including over 33.7 thousand those filed under the national procedure) were filed with Ukrpatent (see table 1.1).

Table 1.1. Applications for Industrial Property Rights Protection, 2015-2019 \*

Industrial property rights	2015	2016	2017	2018	2019
<b>Inventions</b>	<b>4,495</b>	<b>4,093</b>	<b>4,047</b>	<b>3,968</b>	<b>3,852</b>
<b>Utility models</b>	<b>8,620</b>	<b>9,559</b>	<b>9,117</b>	<b>9,120</b>	<b>8,458</b>
<b>Industrial designs</b>	<b>2,080</b>	<b>2,302</b>	<b>2,480</b>	<b>3,042</b>	<b>2,678</b>
<b>Trademarks and service marks</b>	<b>32,621</b>	<b>35,605</b>	<b>37,817</b>	<b>38,651</b>	<b>42,195</b>
<i>national procedure</i>	24,652	29,600	30,183	30,900	33,736
<i>Madrid system</i>	7,969	6,005	7,634	7,752	8,458
<b>Topographies of integrated circuits</b>	–	–	–	–	–
<b>Qualified indications of the origin of goods</b>	<b>3</b>	–	<b>4</b>	<b>3</b>	<b>6</b>

14,998 applications were filed through the electronic filing system in 2019, including 939 applications for inventions (6.3% of all electronic filings), 722 those for utility models (4.8%) and 771 – for industrial designs (5.1%), 12,566 (83.8%) trademark applications (see table 1.2, figure 1.1).

Table 1.2. Filing of Applications through the Electronic Filing System, 2015-2019

Industrial property rights	2015	2016	2017	2018	2019
<b>Total</b>	<b>2,507</b>	<b>3,668</b>	<b>6,888</b>	<b>11,180</b>	<b>14,998</b>
Inventions	221	233	337	635	939
Utility models	168	205	337	527	722
Industrial designs	–	–	214	540	771
Trademarks and service marks	2,118	3,230	6,000	9,478	12,566
Share of the total filings	6.3	8.1	15.1	23.8	30.8

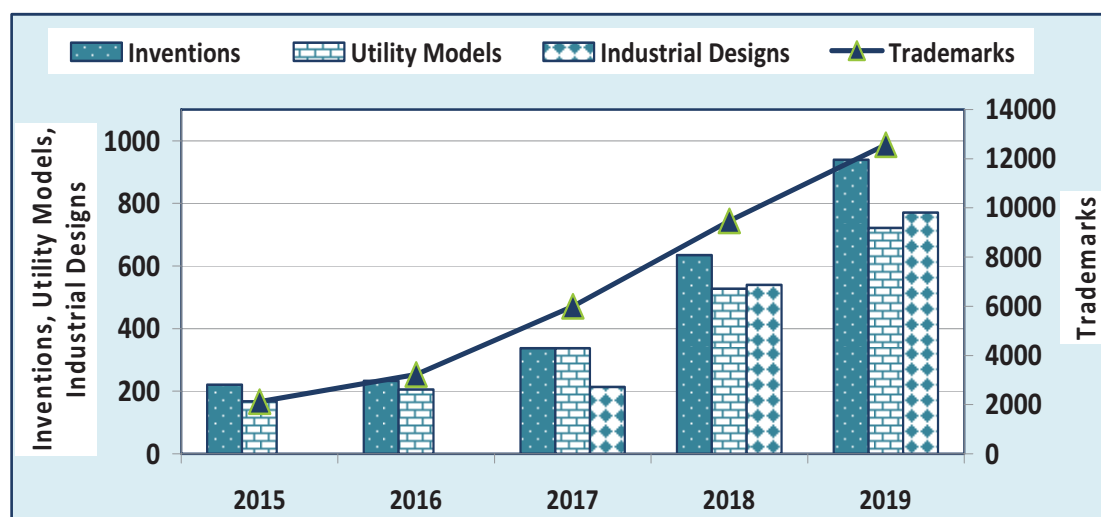


Figure 1.1. Trend in Electronic Filings

\* Data for the preceding years have been corrected

## 1.1. Inventions



In 2019 the number of applications for inventions totaled 3,852 (see table 1.3, figure 1.2). The number of resident filings practically remained at the level of the previous year, and

the number of non-resident filings decreased by 5.7%.

Resident applicants filed 170 applications for patenting inventions under the PCT abroad.

Table 1.3. Applications for inventions, 2015-2019

	2015	2016	2017	2018	2019
<b>Applications filed</b>	<b>4,495</b>	<b>4,093</b>	<b>4,047</b>	<b>3,968</b>	<b>3,852</b>
<b>Under the national procedure</b>	<b>2,506</b>	<b>2,422</b>	<b>2,495</b>	<b>2,355</b>	<b>2,298</b>
by residents,	2,271	2,230	2,282	2,105	2,096
including legal entities	1,127	1,206	1,201	1,163	1,180
by non-residents	235	192	213	250	202
<b>Under the PCT procedure</b>	<b>1,989</b>	<b>1,671</b>	<b>1,552</b>	<b>1,613</b>	<b>1,554</b>
including resident applications	2	1	4	2	1

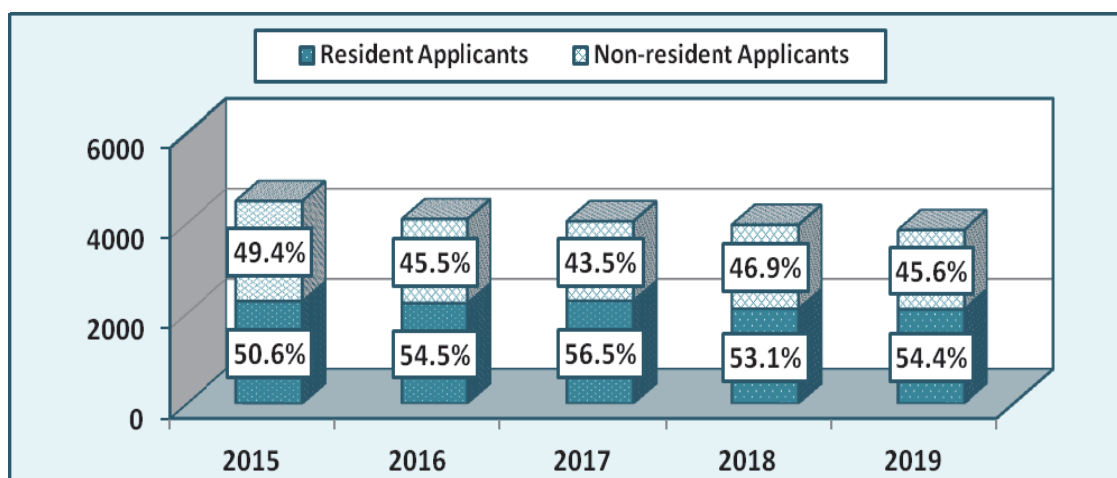


Figure 1.2. Trend in Patent Filings, 2015-2019

Resident applicants filed 2,097 applications for inventions (more than 54% of the total number) in 2019. The largest number of resident filings came from Kyiv City (34.5%), Kharkiv Region (16.5%), Dnipropetrovsk Re-

gion (9.2%), Odesa Region (6.9%), Lviv Region (4.5%), Donetsk Region (3.5%), Kyiv Region (3.0%) and Vinnytsia Region (2.4%) (see figure 1.3).

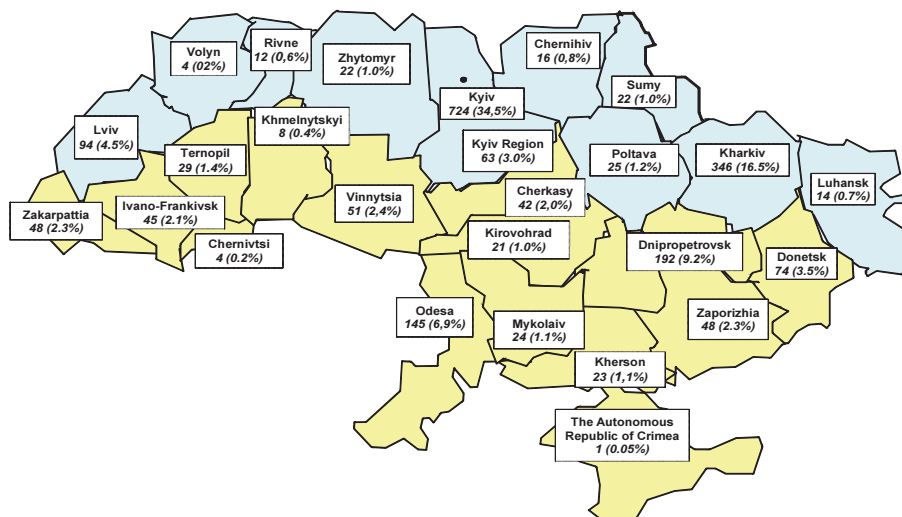


Figure 1.3. Applications for Inventions by Regions of Ukraine, 2019

The share of non-resident applications amounted to 45.6% of total filings. The share of PCT national phase entries amounted to nearly 89% of total non-resident filings. The largest number of non-resident filings came from the USA (526 applications), Germany (229), Switzerland (187), the United Kingdom

(84), France (66), Japan (57), China (51), the Russian Federation (50), Belgium (44), Luxembourg (43), the Netherlands (37), Denmark and Austria (31), Italy and Sweden (29) and Korea (28) (see figure 1.4). The share of applications filed by EU applicants amounted to 41.0% of total non-resident filings.

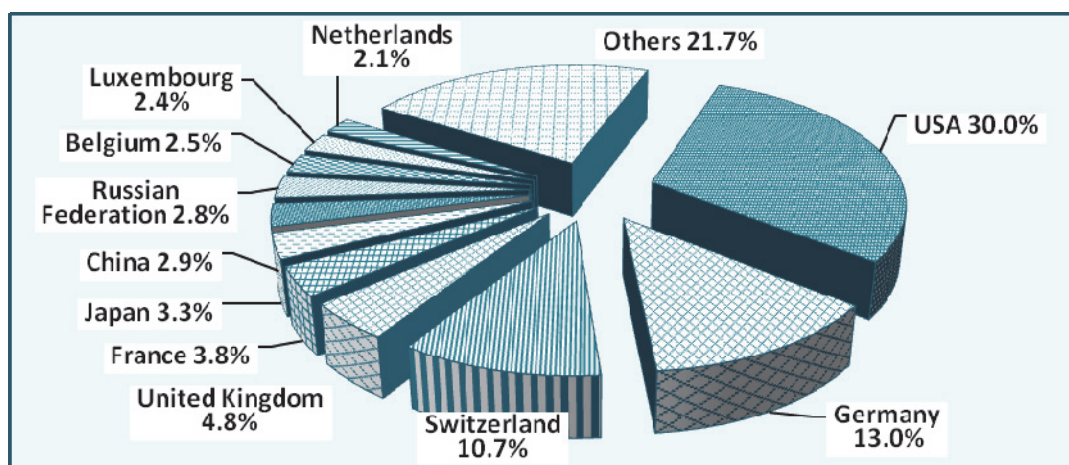


Figure 1.4. Non-resident Applications for Inventions by Origin, 2019

Data on application examining activities are presented in table 1.4.



**Table 1.4. Results of Patent Application Examining Activities, 2015-2019**

	2015	2016	2017	2018	2019
Number of requests for substantive examination	4,040	3,791	3,889	3,665	3,595
Allowed applications	3,101	2,857	2,744	2,510	2,320
Refused applications	57	68	45	38	65
Abandoned applications	956	932	901	820	853
Total disposals	4,114	3,857	3,690	3,368	3,238
Number of pending applications at the end of year	4,257	4,094	4,185	4,679	4,940

In 2019, 2,255 patents for inventions were granted, including 1,248 resident grants (55.3%) (see table 1.5, figure 1.5).

**Table 1.5. Grants of Patents for Inventions, 2015-2019**

	2015	2016	2017	2018	2019
<b>Patents granted</b>	<b>3,014</b>	<b>2,813</b>	<b>2,590</b>	<b>2,469</b>	<b>2,255</b>
to residents	1,516	1,277	1,224	1,203	1,248
to non-residents	1,498	1,536	1,366	1,266	1,007
<b>Patents in force at the end of 2019</b>	<b>25,736</b>	<b>24,760</b>	<b>23,705</b>	<b>22,977</b>	<b>22,440</b>

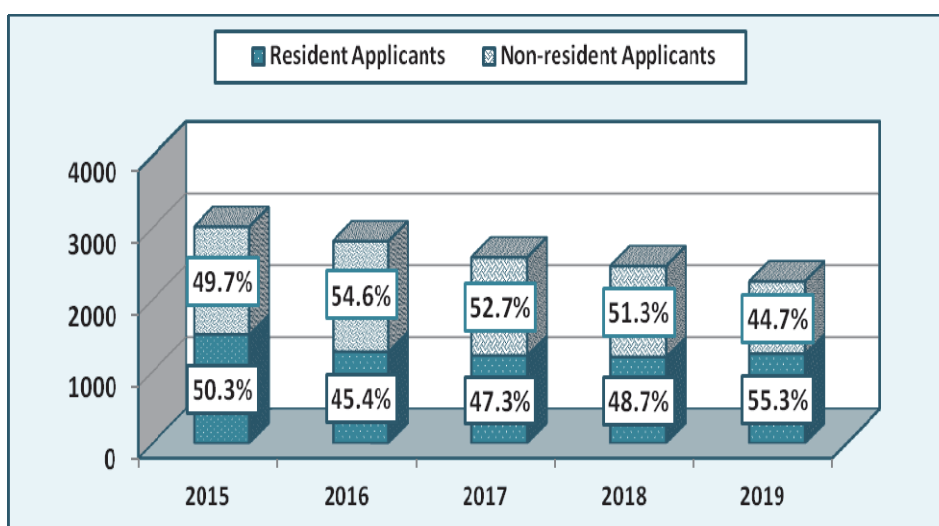


Figure 1.5. Trend in Grants of Patents for Inventions, 2015-2019



As of January 1, 2020 a total of 125,455 patents for inventions were recorded in the State Register of Patents of Ukraine, including 22,440

patents for inventions being in force. The distribution of patents being in force at the end of 2019 by years of filing is presented in figure 1.6.

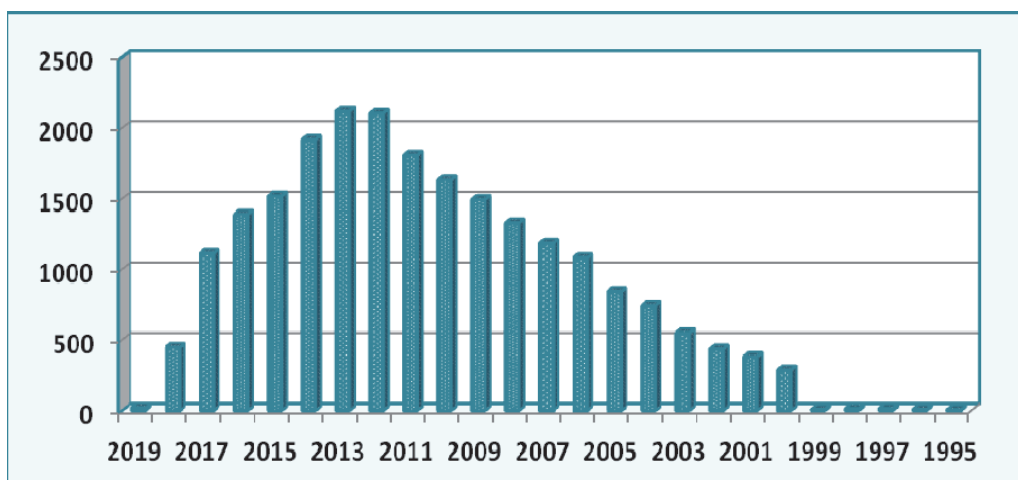


Figure 1.6. Patents in Force by Year of Filing

## 1.2. Utility Models



A total of 8.5 thousand utility model applications were filed in 2019, including 98.7% of resident filings (see table 1.6, figure 1.7).

Table 1.6. Utility Model Applications, 2015-2019

	2015	2016	2017	2018	2019
<b>Applications filed</b>	<b>8,620</b>	<b>9,559</b>	<b>9,117</b>	<b>9,120</b>	<b>8,458</b>
<b>Under the national procedure</b>	<b>8,602</b>	<b>9,551</b>	<b>9,107</b>	<b>9,115</b>	<b>8,447</b>
by residents	8,490	9,470	8,979	8,982	8,351
including legal entities	5,295	6,324	5,962	6,293	5,665
by non-residents	112	81	128	133	96
<b>Under the PCT procedure</b>	<b>18</b>	<b>8</b>	<b>10</b>	<b>5</b>	<b>11</b>
including resident applications	—	3	—	—	—

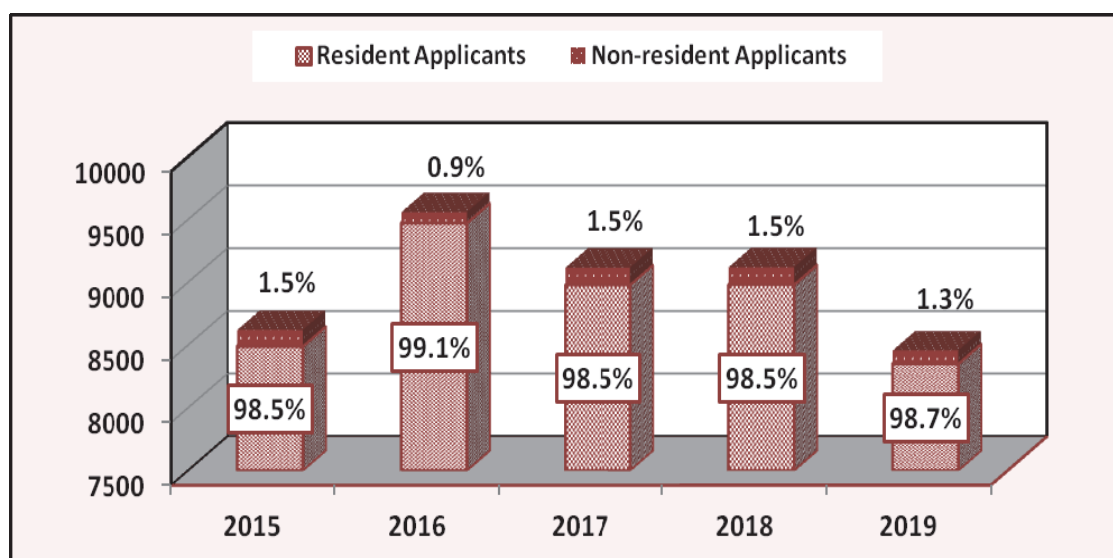


Figure 1.7. Trend in Utility Model Filings, 2015-2019

107 non-resident applications were filed, 16% of those came from Cyprus and 13% from Slovakia. Figure 1.8 shows the distribu-

tion of utility model applications from non-resident applicants.

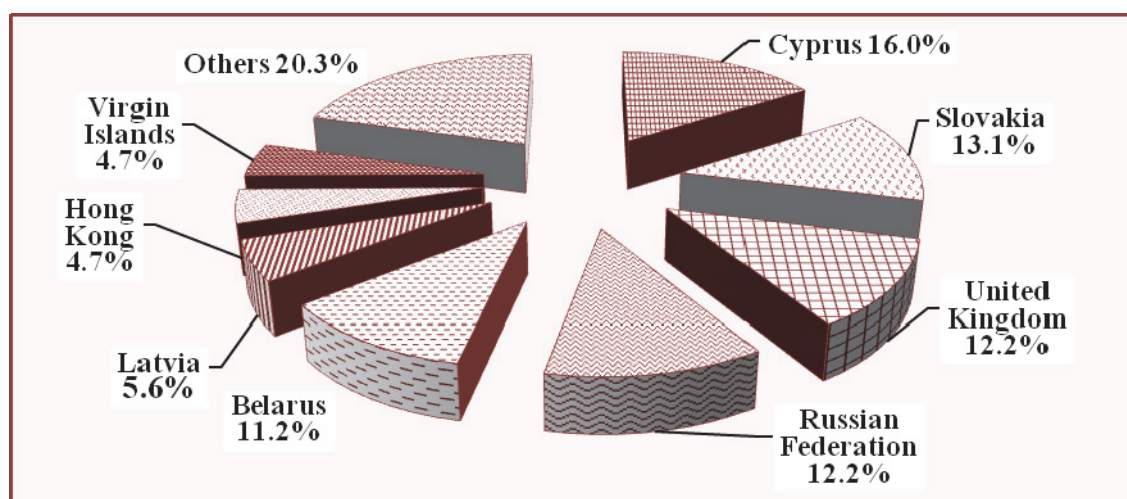


Figure 1.8. Non-resident Applications by Origin, 2019

8,755 applications for utility models were processed, including 8,371 allowed applications, 47 refused and 337 abandoned applications.

A total of 8,412 utility model patents were granted in 2019, including 98.5% of resident grants (see table 1.7, figure 1.9).

Table 1.7. Trend in Grants of Utility Model Patents, 2015-2019

	2015	2016	2017	2018	2019
<b>Patents granted</b>	<b>8,153</b>	<b>9,044</b>	<b>9,442</b>	<b>8,620</b>	<b>8,412</b>
to residents	8,035	8,931	9,365	8,471	8,288
to non-residents	118	113	77	149	124
<b>Patents in force at the end of 2019</b>	<b>37,416</b>	<b>35,914</b>	<b>36,658</b>	<b>36,992</b>	<b>36,841</b>

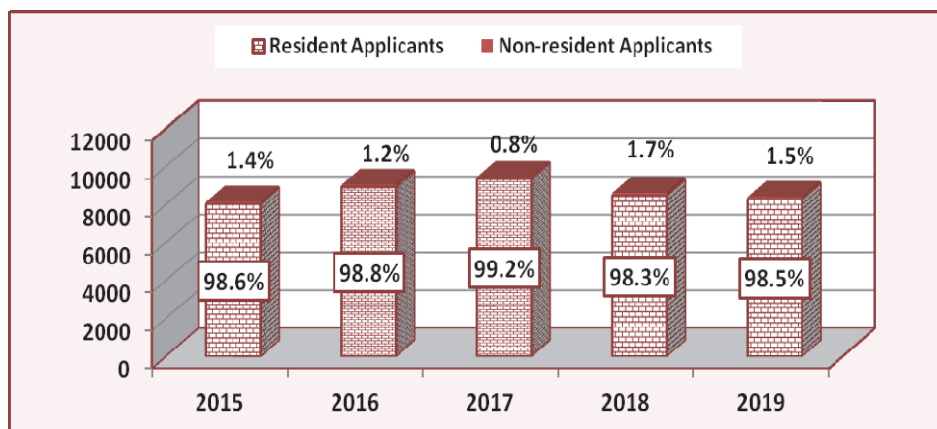


Figure 1.9. Trend in Grants of Utility Model Patents, 2015-2019

124 patents were granted to non-resident applicants, including 39 grants to applicants from Cyprus, 18 – from the Russian Federation, 13 – from Belarus, equal numbers of patents were granted to applicants from Latvia and Slovakia (10), and 5 grants to applicants from Czech Republic.

As of January 1, 2020, 139,365 patents for utility models were recorded in the State Register of Patents of Ukraine for Utility Models, including 36,841 patents being in force. The distribution of patents in force at the end of 2019 by years of filing is presented in figure 1.10.

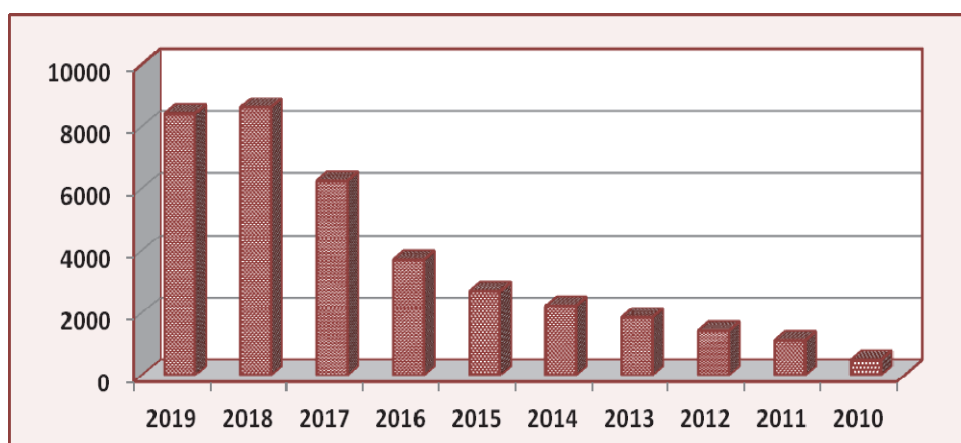


Figure 1.10. Utility Model Patents in Force by Year of Filing

### 1.3. Industrial designs

Nearly 2.7 thousand industrial design applications were filed in 2019 (see table 1.8, figure 1.11).

The share of non-resident applications amounted to 8.3% of total filings.

Table 1.8. Industrial Design Applications, 2015-2019

	2015	2016	2017	2018	2019
<b>Applications filed</b>	<b>2,080</b>	<b>2,302</b>	<b>2,480</b>	<b>3,042</b>	<b>2,678</b>
by residents	1,811	2,016	2,249	2,787	2,455
including legal entities	466	446	582	597	527
by non-residents	269	286	231	255	223



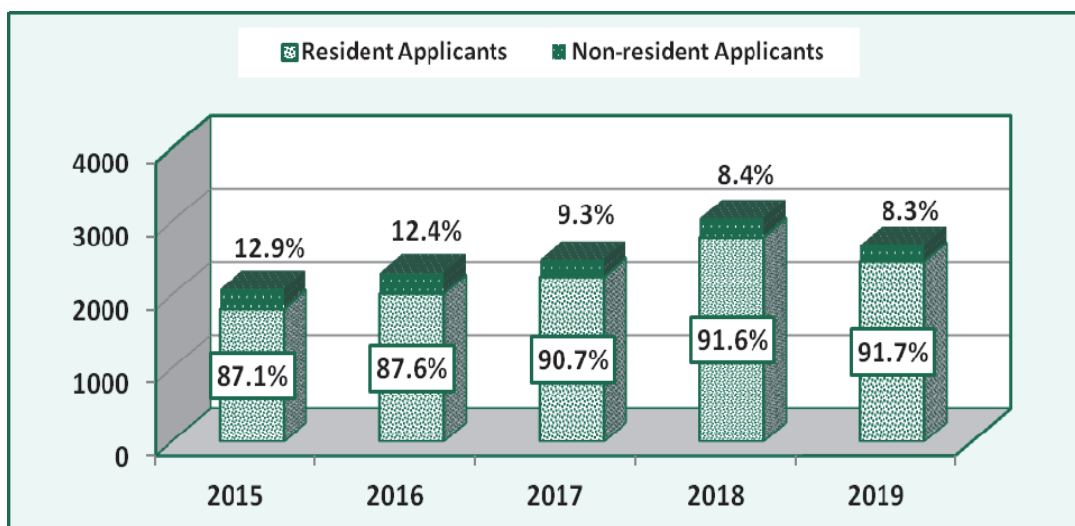


Figure 1.11. Trend in Industrial Design Filings, 2015-2019

In the year under review the most active were applicants from the Russian Federation and the USA (35 applications), the United Kingdom (31), China (30), Cyprus (13), Belarus (10), India and Sweden (9) and Israel (8 appli-

cations) (see figure 1.12). The share of applications filed by applicants of listed countries amounted to 80.7% of total non-resident filings in 2019.

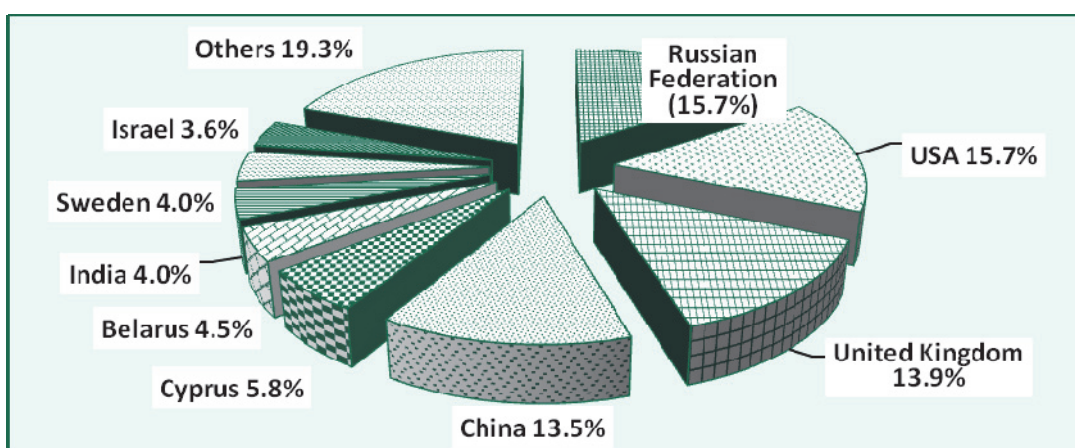


Figure 1.12. Non-resident Applications by Origin, 2019

The total number of processed industrial design applications amounted to 2,892, including 2,517 allowed applications, 1 refused and 374 withdrawn applications.

A total of 2,599 patents for industrial design were granted, including 2,396 resident grants (92.2%) (see table 1.9, figure 1.13).

Table 1.9. Industrial Design Grants, 2015-2019

	2015	2016	2017	2018	2019
<b>Patents granted</b>	<b>2,521</b>	<b>2,469</b>	<b>2,390</b>	<b>2,297</b>	<b>2,599</b>
to residents	1,957	2,134	2,113	2,077	2,396
to non-residents	564	335	277	220	203
<b>Patents in force at the end of 2019</b>	<b>12,041</b>	<b>13,026</b>	<b>13,761</b>	<b>14,383</b>	<b>14,873</b>

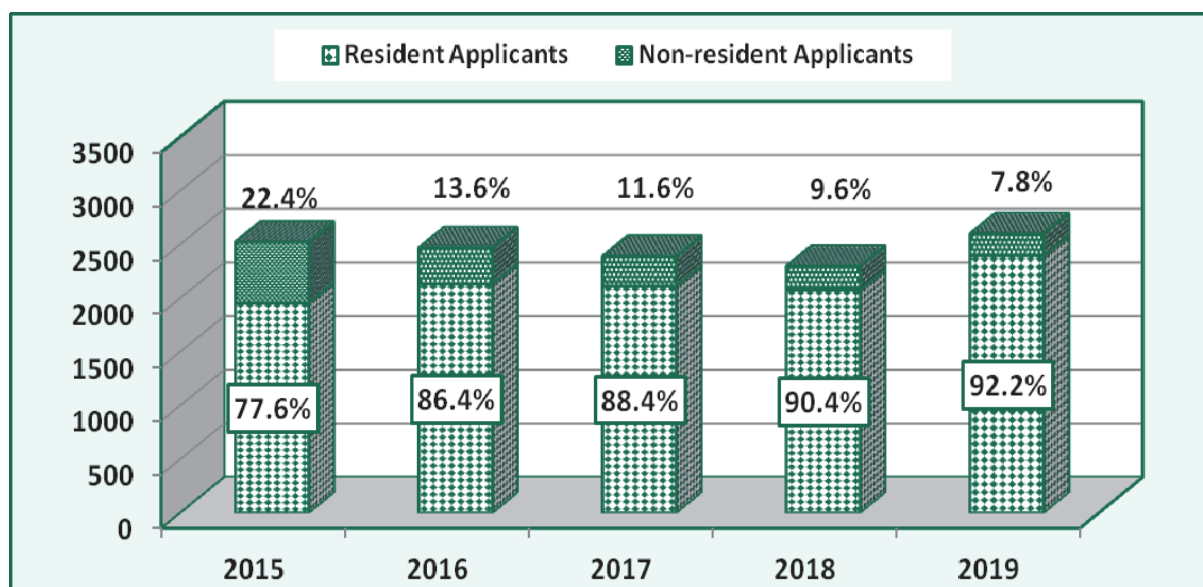


Figure 1.13. Trend in Grants of Industrial Design Patents, 2015-2019

As of January 1, 2020, 40,909 patents for industrial designs were recorded in the State Register of Patents of Ukraine for Industrial Designs, including 14,873 patents being in force.

The effect of 557 international registrations under the Hague Agreement Concerning the International Registration of Industrial Designs was extended to the territory of Ukraine in 2019 (see figure 1.14).

The most specified class in international registrations was class 10 (Clocks and watches and other measuring instruments, checking and signaling instruments) – 107 registrations. The other most specified classes were class 12 (Means of transport or hoisting) – 74 registrations, class 09 (Packages and containers for

the transport or handling of goods) – 55, class 14 (Recording, communication or information retrieval equipment) – 34, class 11 (Articles of adornment) – 32, class 23 (Fluid distribution equipment, sanitary, heating, ventilation and air-conditioning equipment, solid fuel) – 28, class 26 (Lighting apparatus) – 27, class 21 (Games, toys, tents and sports goods) – 25, class 03 (Travel goods, cases, parasols and personal belongings, not elsewhere specified) – 24, class 02 (Articles of clothing and haberdashery) – 23, class 07 (Household goods, not elsewhere specified) and class 32 (Graphic by symbols and logos, surface patterns, ornamentation) – 19 registrations for each class, and class 06 (Furnishing) – 16 registrations.

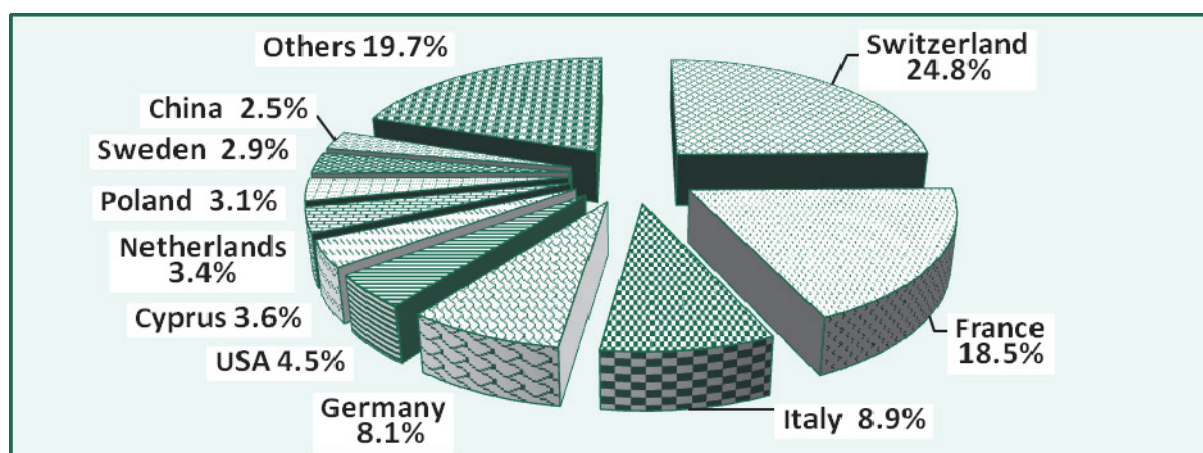


Figure 1.14. Registrations under the Hague Agreement by Origin, 2019

## 1.4. Trademarks and Service Marks

### National procedure

In 2019, filing activity of resident applicants grew by 9.1%, activity of non-resident applicants decreased by 9.5% (see table 1.10, figure 1.15).

The number of non-resident applications amounted nearly to 3.9 thousand, or nearly 11.6% of total filings under the national procedure.

Table 1.10. Trademark Applications, 2015-2019

	2015	2016	2017	2018	2019
<b>Applications filed</b>	<b>24,652</b>	<b>29,600</b>	<b>30,183</b>	<b>30,900</b>	<b>33,736</b>
by residents	21,245	26,064	26,275	27,328	29,828
by non-residents	3,407	3,536	3,908	3,570	3,908

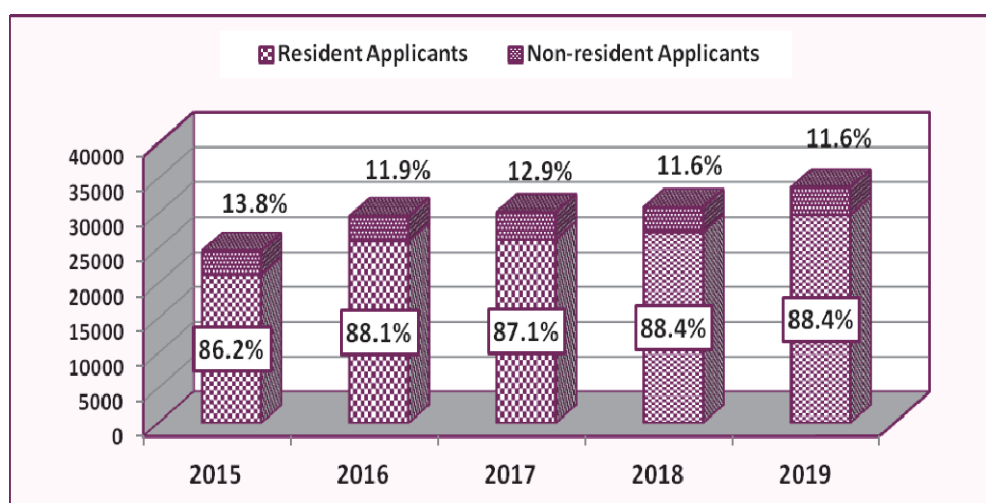


Figure 1.15. Trend in Trademark Filings, 2015-2019

The most active were applicants from the USA – 778 applications (19.9%), Cyprus – 448 (11.5%), Switzerland – 409 (10.5%), China – 284 (7.3%), the United Kingdom – 232 (5.9%),

India – 199 applications (5.1%), the Republic of Korea – 105 (2.7%), Germany – 100 (2.6%), Poland – 98 (2.5%) and Japan – 94 applications (2.4%) (see figure 1.16).

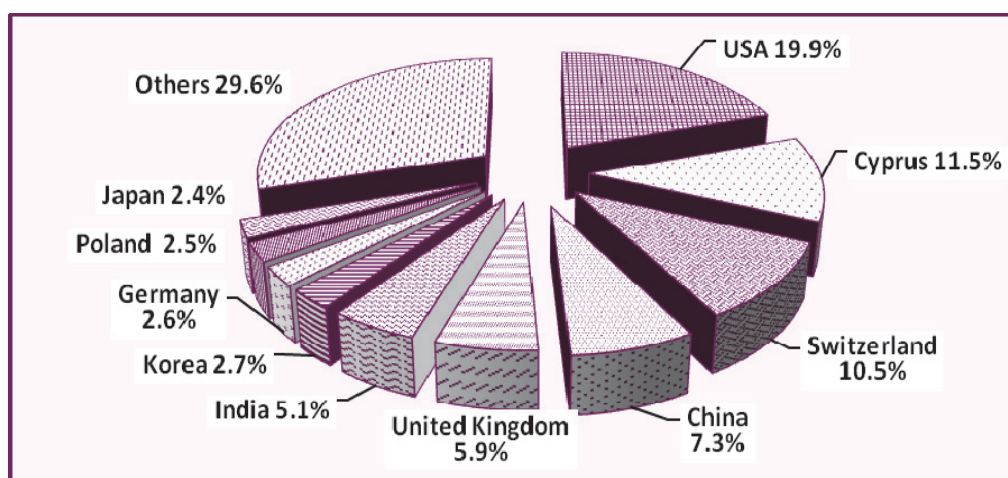


Figure 1.16. Non-resident Applications by Origin, 2019

Table 1.11. Results of Trademark Examining Activities, 2015-2019

	2015	2016	2017	2018	2019
Expert opinions as to form	11,627	21,166	22,985	22,748	23,104
Applications withdrawn or abandoned	4,036	5,726	5,270	5,245	5,319
Decisions on registration	13,448	14,338	16,620	18,218	19,342
Total rejections	1,852	1,825	1,865	1,795	2,027
Disposals	19,336	21,889	23,755	25,258	26,688
Reopening of proceedings	62	520	617	724	661
Pending applications undergoing examination at the end of year	25,507	33,076	40,099	37,783	46,501

In the year under review 17.3 thousand trademark certificates were registered. The share of resident registrations amounted to 85.4% (see table 1.12, figure 1.17).

Table 1.12. Trademark Registrations, 2015-2019

	2015	2016	2017	2018	2019
<b>Marks registered</b>	<b>12,388</b>	<b>13,618</b>	<b>15,248</b>	<b>15,877</b>	<b>17,322</b>
to residents	9,539	11,007	12,986	13,553	14,788
to non-residents	2,849	2,611	2,262	2,324	2,534
<b>Registrations in force at the end of 2019</b>	<b>167,166</b>	<b>172,015</b>	<b>177,353</b>	<b>182,120</b>	<b>191,628</b>

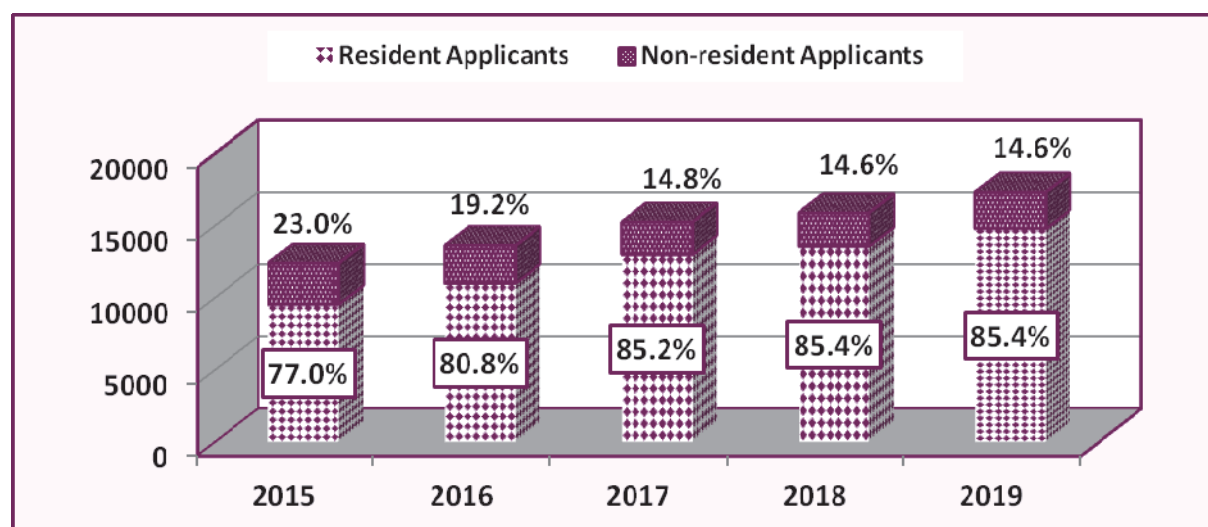


Figure 1.17. Trend in Trademark Registrations, 2015-2019

As of January 1, 2020 269,668 trademark certificates were recorded in the State Register of Trademarks and Service Marks, of which 191,628 certificates were in force.

### International procedure

In 2019, 8,458 international applications were received from the WIPO International Bureau. The protection was granted to 7,212 international marks (see table 1.13, figure 1.18).



Table 1.13. Trademark Applications and Registrations under the Madrid System, 2015-2019

	2015	2016	2017	2018	2019
Applications filed	7,969	6,005	7,634	7,752	8,458
Protection granted	8,117	7,620	5,565	7,499	7,212

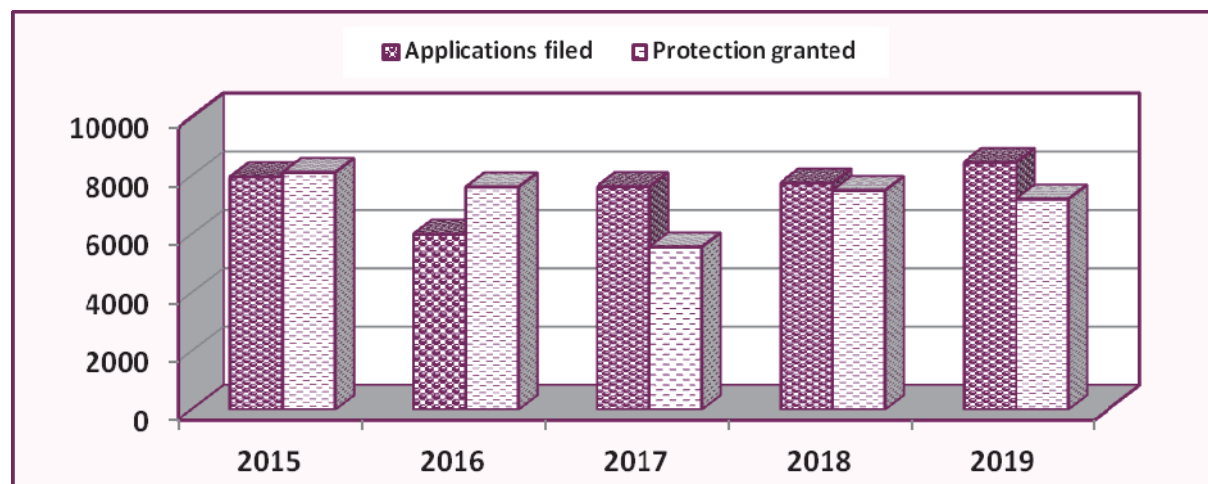


Figure 1.18. Trend in Filings and Registrations under the Madrid System, 2015-2019

The top users of the Madrid System were applicants from China (1,367 applications, 16.2%), Germany (1,031, 12.2%), USA (688, 8.1%), France (672, 7.9%), Italy (529, 6.3%), the Russian Federation (513, 6.1%), Switzerland (498, 5.9%), Turkey (269, 3.2%),

the United Kingdom (243, 2.9%), Poland (241, 2.8%), Spain (189, 2.2%), Japan (170, 2.0%) and Belarus (142 applications, 1.7%). The share of applications from these countries amounted to 77.5 % (see figure 1.19).

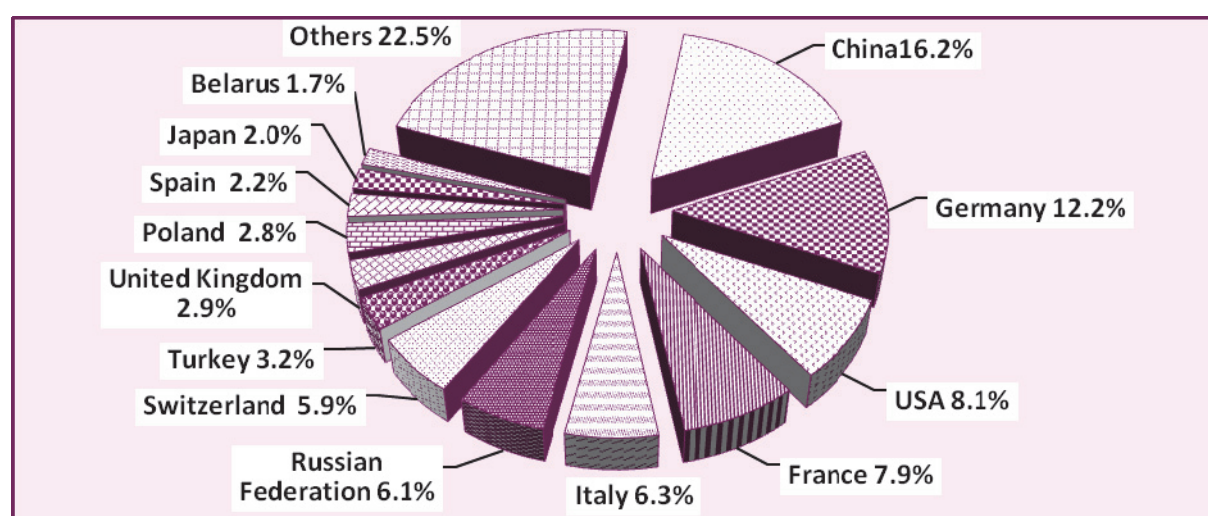


Figure 1.19. Filings under the Madrid System by Origin, 2019

In 2019, 657 resident trademark applications were sent to WIPO International Bureau for international registration (see figure 1.20).

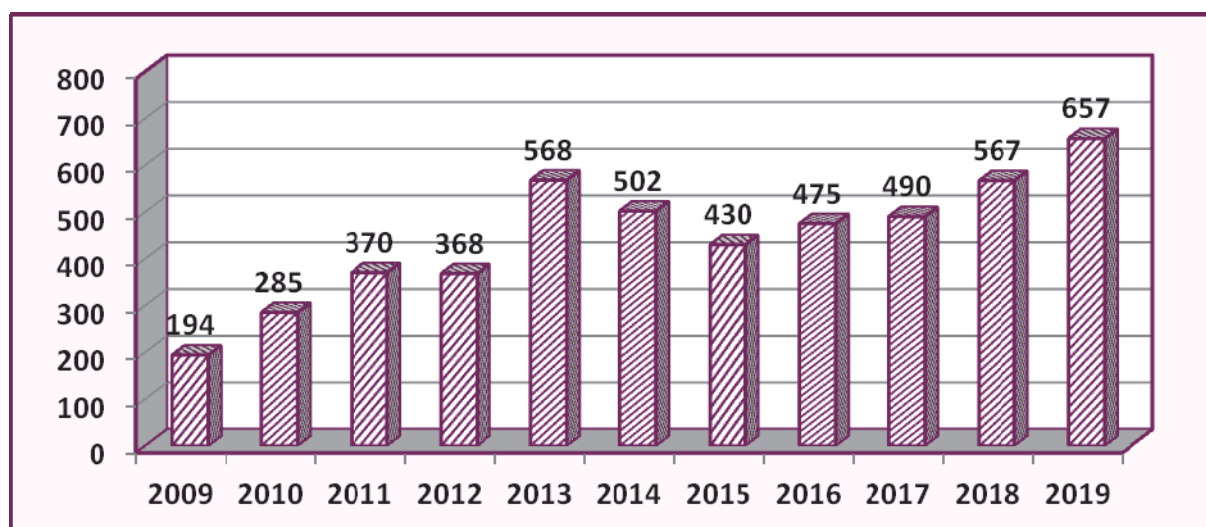


Figure 1.20. Trend in Resident Activity in the International Registration of Trademarks, 2009-2019



## 2 The functioning of Ukrpatent as an International Searching Authority and International Preliminary Examining Authority under the Patent Cooperation Treaty

According to the Agreement between the Ministry for Development of Economy, Trade and Agriculture of Ukraine and the International Bureau of the World Intellectual Property Organization in relation to the functioning of the State Enterprise "Ukrainian Intellectual Property Institute" as an International Searching Authority and International Preliminary Examining Authority under the Patent Cooperation Treaty concluded for the period January 1, 2018 to December 31, 2027 During 2018 Ukrpatent continued to perform functions of an International Searching Authority (ISA) and International Preliminary Examining Authority (IPEA) under the Patent Cooperation Treaty (PCT).

Ukrpatent carries out international search and international preliminary examination for international applications filed by Ukrainian applicants with Ukrpatent as receiving Office or the International Bureau (IB) of WIPO as receiving Office.

In 2019, Ukrpatent as receiving Office received 170 applications, that is by 19% more than in the previous year, and by 11% more than figure of 2016, when Ukrpatent began to function as ISA/IPEA (see table 2.1). The number of applications filed in English in 2019 reduced by 13,9% as compared to 2018, and the number of applications filed in Russian increased by 29,9%.

*Table 2.1. International filings with Ukrpatent as receiving Office, 2016-2019*

Number of applications	2016	2017	2018	2019	Total
Filed in English	35	29	36	31	131
Filed in Russian	118	102	107	139	466
<b>Total</b>	<b>153</b>	<b>131</b>	<b>143</b>	<b>170</b>	<b>597</b>

From 2016 to 2019 there was upward trend in number of filings for which search copies were received by Ukrpatent as well as in number of international search reports and written opinions of ISA transmitted to applicants and to the IB of WIPO (see table 2.2).

In 2019, Ukrpatent received 94 search copies, that is by 81% more than figure of previous year, and transmitted 94 search reports and written opinions of ISA to applicants and to the IB of WIPO, that is 2.5 times greater in comparison with figure of 2018.

Table 2.2. ISA performance indicators

	2016	2017	2018	2019	Усього
Number of search copies received	22	39	52	94	207
Number of international search reports and written opinions transmitted to applicants and to the IB	18	39	35	94	186
Number of requests for additional international search	–	1	–	5	6
Number of additional international search	–	–	1	2	3

In 2019 five requests for supplementary international search were received, and subsequently two supplementary international search reports were transmitted to applicants and to the IB.

Considerable reduction of amounts of fees and charges, which Ukrpatent is entitled to make in relation to its functions as an Inter-

national Searching Authority and International Preliminary Examining Authority, for applications in Ukrainian or Russian from September 1, 2018 has positive effect on ISA performance indicators.

IPEA performance indicators are presented in table 2.3.

Table 2.3. IPEA performance indicators

	2016	2017	2018	2019	Total
Number of demands for international preliminary examination	3	5	8	9	25
Number of international preliminary reports on patentability transmitted to applicants and to the IB	–	4	7	7	18

Great attention is paid to maintenance of high quality of works connected with conducting international searches and international preliminary examination. The results of these works are subject to 100% control by Division for Quality Control and Improvement of Examination of

Applications for Inventions, Utility Models and Topographies of Integrated Circuits. The analysis of international search reports and written opinions established by Ukrpatent as competent ISA shows high performance of its examiners (see figure 2).

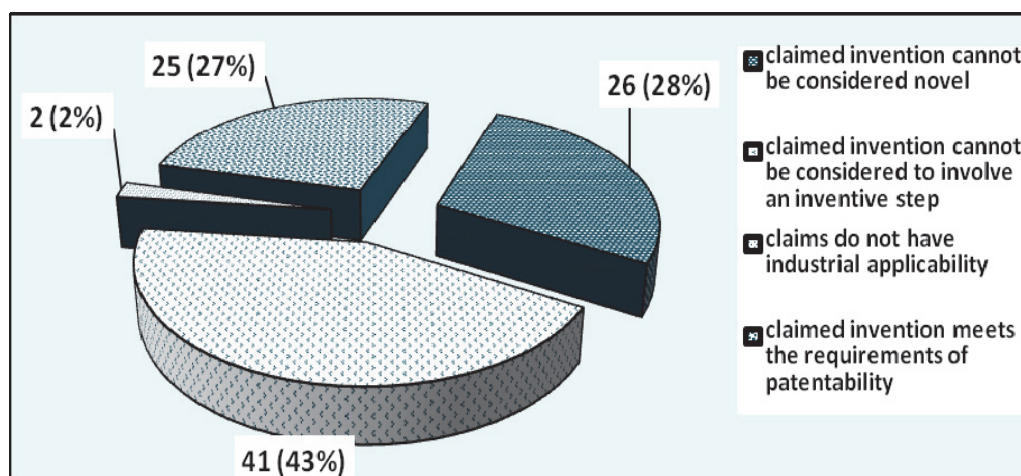


Figure 2. International search reports and written opinions by search results



All procedural time limits were controlled strictly by examination divisions, Division for Quality Control and Improvement of Examination of Applications for Inventions, Utility Models and Topographies of Integrated Circuits and by Division of International Applications for Inventions and Utility Models. Since Ukrpatent

began functioning as ISA and IPEA it keeps all established procedural terms as represented in WIPO statistical reports for relevant period, according to which Ukrpatent holds leading positions among other offices having ISA/IPEA status.

## 3 Information Support of Examination of Applications for Industrial Property Rights



### 3.1. Patent Information Resources

In 2019, to meet the examiners need in reliable and up-to-date information, in particular for proper patent information provision of Ukrpatent functioning as an International Searching and Preliminary Examining Authority (ISA/IPEA), formation of a number of patent information funds and electronic resources that make the patent information base for examination purposes was provided.

The main source of acquisition of foreign patent documents for examination purposes

and for the public needs is a bilateral international exchange of patent documentation with foreign patent offices (on optical carriers and via FTP) carried out by Ukrpatent as the Center of International Exchange of Publications. In the reporting year, Ukrpatent received over 250 CDs from the national patent offices of 6 countries and the data from 218 optical disks were used to replenish electronic information resources for carrying out an information search.

In the reporting year Ukrpatent continued distribution, within the framework of the ex change,

change, of the Bulletin "Industrial Property" on CD-ROM and the National CD-ROM "Inventions in Ukraine" to the partner offices, and provision of the patent documentation via FTP-servers.

In the course of 2019, the Reference and Information File (RIF) for examination was replenished by about 1,600 copies of books, booklets, periodicals, as well as the national patent documentation – current publications of the Bulletin "Industrial Property" on CD-ROM, the National CD-ROMs "Inventions in Ukraine" and "Trademarks and Service Marks Registered in Ukraine" as well as the publications of the Bulletin "Copyright and Related Rights".

The works on forming electronic resources for information support of the examination procedure which are accessible through the local Intranet network were in progress, in particular, the content of the following information and search systems was considerably expanded:

- the Network Electronic Catalogue was replenished by about 1,900 documents;
- the full-text non-patent literature database of the Search Portal was replenished with about 7,000 documents by digitalizing printed publications from own collections and those obtained from other information sources.

In 2019, maintenance of the standards collection available in the RIF for examination was in progress. An electronic information resource – the Catalogue of Normative Documents of Ukraine, Available in Information Resources of Ukrpatent – was maintained after its implementation in 2015. With this purpose, the "Standards" current periodical information index, published by the State Enterprise "Ukrainian Research, Development and Training Centre for the Matters of Standardization, Certification and Quality" was processed. The revealed information on changes and amendments was entered directly to the documents of the electronic information resource.

An integral part of the activities on information support of examiners is the system of providing materials through inter-library loans using the collections (primarily electronic ones) of 96 largest national and specialized libraries of Ukraine and foreign countries. Electronic copies of the requested information resources

are obtained through the electronic document delivery.

As in previous years, free national and foreign Internet resources were widely used.

Examiners requests for non-patent literature, primarily of the PCT Minimum Documentation, were also provided by using the access to foreign commercial Internet resources: Access to Research for Development and Innovation (ARDI) program, coordinated by WIPO (Switzerland), ScienceDirect ArticleChoice service by Elsevier B.V. (the Netherlands), Content of the IEEE Xplore Digital Library of the Institute of Electrical and Electronics Engineers (USA), ACS products of the American Chemical Society (USA) and the Wiley Online Library by John Wiley & Sons, Inc. (USA).

Due to effective utilization of the above-mentioned resources in the reporting year, 100% of queries for articles from the PCT Minimum Documentation periodicals were complied with.

In total, according to the examiners queries, about 1,300 documents were provided, including 76.5% in electronic form, that confirms the steady tendency to increase the share of electronic documents in the service of users.

In addition, monitoring and research of the commercial and free-of-charge Internet resources of non-patent literature was permanently carried out for the purpose of expansion of the list of free-of-charge databases and analysis of foreign commercial Internet resources for the availability of non-patent literature, those of the PCT Minimum Documentation items in the first place.

In order to provide access of the examining authority to the PCT Minimum Documentation (patent documentation and non-patent literature), Ukrpatent concludes agreements with WIPO, the European Patent Organization and the leading companies of the world on access to foreign commercial information Internet resources, the list of which is approved by the order of Ukrpatent on the composition of information resources for information retrieval.

In 2019, the complex of works was continued to ensure the guaranteed access of the examiners to 11 foreign commercial information Internet resources containing the PCT

Minimum Documentation, the use of which is necessary for the quality of patent searches at Ukrpatent, in particular in the context of Ukrpatent functioning as an ISA and IPEA:

- the EPO's EPOQUE Net system (Germany) (since 2007);
- STN files and features (STN Global Value Pricing) by FIZ Karlsruhe (Germany) (since 2008);
- ScienceDirect ArticleChoice service by Elsevier B.V. (the Netherlands) (since 2009);
- Derwent World Patent Index (DWPI) database by Clarivate Analytics UK Limited (United Kingdom), accessible through the EPO's EPOQUE Net system (since 2011);
- REAXYS database by Elsevier B.V. (the Netherlands) (since 2011);
- Reaxys Medicinal Chemistry database by Elsevier B.V. (the Netherlands) (since 2018);
- Embase database by Elsevier B.V. (the Netherlands) (since 2019);
- Access to Research for Development and Innovation (ARDI) program, coordinated by WIPO (Switzerland) (since 2012);
- Content of the IEEE Xplore Digital Library of the Institute of Electrical and Electronics Engineers (USA) (since 2013);
- American Chemical Society Products (USA) (since 2013);
- John Wiley & Sons, Inc (USA) Online Library (since 2014).

### **3.2. International Classifications in the Ukrainian Translation**

To provide for the use of the industrial property international classifications in the Ukrainian translation in the process of applications examination and their use (within the limits specified by relevant normative and legal acts) by applicants and general public, as well as to fulfill the commitments under the international agreements on international classifications acceded by Ukraine, the works on updating the Ukrainian translations of the international classifications were continued and their new versions/editions were implemented in the state system of intellectual property rights protection, in line with the strategy and practice adopted by WIPO.

On completion of the complex of works implemented by Ukrpatent throughout 2018 on updating the texts of the International Patent Classification (IPC), the International Classification of Goods and Services for the Purposes of the Registration of Marks (Nice Classification) and the International Classification for Industrial Designs (Locarno Classification) their new versions/editions were introduced in the state system of intellectual property rights protection, which entered into force on January 1, 2019 and were put into effect by the relevant orders of the Ministry:

- On Implementation of the 2019 Version of the International Patent Classification Translated into Ukrainian, dated December 18, 2018, No. 1936;

- On Implementation of the 2019 version of the Eleventh Edition of the International Classification of Goods and Services for the Purposes of the Registration of Marks Translated into Ukrainian, dated December 18, 2018, No. 1934;

- On Implementation of the Twelfth Edition of the International Classification for Industrial Designs Translated into Ukrainian, dated December 18, 2018, No. 1935.

In pursuance of these orders, information and reference systems (IRS) for IPC 2019.01, NCL (11-2019) and LOC (12) were created and were freely available at the Ukrpatent website.

In connection with the introduction of changes and additions to the text of the IPC by WIPO in 2019 and entering into force of the IPC 2020.01 on January 1, 2020, the appropriate set of works was implemented at Ukrpatent and the following was provided:

- translation from English into Ukrainian, scientific and terminological, scientific and technical editing of the changes and additions to the IPC 2019.01 with the aim to update the classification and use the IPC 2020.01, translated into Ukrainian, in the state system of intellectual property rights protection from January 1, 2020;

- creation of the new IRS for IPC 2020.01, which is freely accessible through the Ukrpatent website.

At the same time, verification of the terminological unity compliance with the previously translated text of the IPC in accordance with modern Ukrainian lexical and spelling norms



and the state of the art in certain technical fields, notable for more rapid development, was in progress.

In view of changes and additions made by WIPO to the text of the IPC Handbook, which is an integral part of the classification, the 2019 version of the said Handbook in Ukrainian translation was also created and its placement in the IRS for the IPC was ensured. Since 2018, the Handbook is available in PDF format, which is consistent with WIPO's practice and provides its users with greater convenience, including expanding search capabilities and providing information in one array which facilitates its perception.

As a result of these works, from January 1, 2020, by the Order of the Ministry dated December 13, 2019 No. 665 On Implementation of the 2020 Version of the International Patent Classification Translated into Ukrainian, the IPC 2020.01 in Ukrainian translation was introduced in the state system of intellectual property rights protection.

In connection with changes and additions introduced by WIPO to the 2019 version of the eleventh edition of the Nice Classification in 2019 and implementation of the 2020 version of the eleventh edition of the Nice Classification – NCL (11-2020) – as of January 1, 2020, the appropriate set of works was accomplished at Ukrpatent and the following was provided:

- translation from English into Ukrainian, scientific and terminological, scientific and technical editing of the changes and additions to the NCL (11-2019) in order to update the classification and provide the use of the NCL (11-2020) translated into Ukrainian in the state system of intellectual property rights protection;

- creation of the IRS for the NCL (11-2020), which is freely accessible through the Ukrpatent website.

In order to improve the quality of the examination of applications for marks for goods and services and to improve the text of the Nice Classification in the Ukrainian translation, Ukrpatent continued to review and update the Ukrainian language text of the Nice Classification with taking into account the norms of the modern Ukrainian language.

As a result of these works, from January 1, 2020, by the Order of the Ministry dated December 13, 2019 No. 662 On Implementation of the 2020 Version of the Eleventh Edition of the International Classification of Goods and Services for the Purposes of the Registration of Marks Translated into Ukrainian, the NCL (11-2020) in Ukrainian translation was introduced in the state system of intellectual property rights protection.

In 2019, cooperation was in progress between the Ukrpatent specialists and the WIPO subdivision, responsible for the operation and development of the Madrid Goods & Services Manager (MGS) online tool, created by WIPO to help trademark applicants to compile and classify their lists of goods and services before filing an international trademark application under Madrid System.

The maintenance and updating of the information content of the Ukrainian language version of the MGS, which operates on the WIPO website from February 2015 (<https://webaccess.wipo.int/mgs/?lang=uk>), was provided.

The MGS version in Ukrainian provides access to the alphabetical lists, class headings and explanatory notes thereto of the current version of the Nice Classification in Ukrainian translation for the international registration of mark, and serves as an auxiliary information means for registration under the national procedure.

### **3.3. WIPO Standards in the Ukrainian Translation**

In the course of processing of applications for industrial property rights, in particular at the time of their filing, examination, publication of national patent documentation, registration and issuance of titles of protection as well as in the process of creation and updating of specialized Internet resources, recommendations of WIPO Standards are applied which, in the course of time, are becoming increasingly important in the world intellectual property system. Due to these standards and the use of modern information technologies, the standardized information processing is provided, harmonization and unification of

national patent documentation is implemented which ensures its integration into the world information space.

In order to improve the Ukrainian patent and terminology base, standardization and unification of terminology in the intellectual property sphere, WIPO Standards are translated into Ukrainian, primarily those that have more practical value, and their timely updating is provided.

As of today, Ukrpatent has translated 20 WIPO Standards (with no official status). Such work continued in 2019, in particular, according to the current versions published by WIPO the following translations of WIPO Standards were updated:

- ST.3: Recommended standard on two-letter codes for the representation of states,

other entities and intergovernmental organizations;

- ST.26: Recommended standard for the presentation of nucleotide and amino acid sequence listings using XML (extensible markup language);

- ST.27: Recommendation for the Exchange of Patent Legal Status Data;

- ST.60: Recommendation concerning bibliographic data relating to marks;

- ST.96: Recommendation for the processing of industrial property information using XML (extensible markup language).

The translations of WIPO Standards are available at the Ukrpatent website in the WIPO Standards section.

## 4 Information Technology Implementation



### 4.1. Automation of Industrial Property Rights Applications Processing

The use of information technology is an important component and condition for achieving high efficiency and ensuring high standards of service to individuals and legal entities in order to maintain a high level of productivity of technological processes of document management, economic efficiency and compliance with legal and regulatory requirements.

There are three main technological automated systems (AS) constituting the information system of Ukrpatent as an examining authority, namely: the Inventions AS, the Trademarks and Service Marks AS, the Industrial Designs AS. These automated systems provide

for automation of the full cycle of document management on applications for inventions, utility models, topographies of integrated circuits, trademarks and service marks, industrial designs and indications of the origin of goods. Automated functions to control terms of pendency of applications, quality of examination, preparation of information for the state registration of patents and certificates for intellectual property rights, their issue and publication are implemented in the environment of the automated systems. The entire cycle of generation, approval, signing, handing over and registration of documents is carried out on the basis of an electronic technology. The automated systems also implement the functions of user administration within the examination units.

In 2019, in order to increase the productivity of technological systems and increase the objectivity of the process of assessing the quality of examination of applications, the system of storage, retrieval and data processing was reengineered. This objective was achieved by using a two-tier method of data storage and reducing the number of records in the tables of the current database. Restructuring of database indexes was carried out on the basis of analysis and optimization of SQL query execution plans. New indexes for tables that have undergone structural changes were built taking into account the execution plans of server procedures, queries and sections (View SQL) of the database. The File Stream technology was used to store documents in a file structure and the existing collection of documents was converted into the file structure.

After the completion of the reengineering project of the storage, retrieval and data processing system, testing was performed according to a special method. The testing has shown that the implemented solutions for the database restructuring have reduced (in some cases by ten folds) the use of server resources in terms of:

- use of processor time;
- number of logical read operations;
- duration of requests and server procedures.

Implementation of the concept of transition from paper to electronic technology in the processes of application filing, examination, state registration, publication, maintenance of industrial property rights requires deep modernization of automated systems and significant investment for their adaptation and improvement. Therefore, in early 2019, a project was launched to create a new comprehensive automated record keeping system for applications for designations and industrial designs. This system is based on microservice architecture as a new technological programming environment. The system design provides the possibility of functional modification of the system

directly by administrators, independence from the software platform and a phased introduction.

## **4.2. Electronic Document Management. Electronic Filing of Applications**

One of the priority objectives of Ukrpatent is introduction of the complete electronic document management in internal business processes and in the processes of interaction with external partners and contractors.

In 2019, efforts were focused on integration of the electronic document management system with automated systems for keeping records on applications with the system of electronic filing of applications, with the system of interaction of the examining authority with external entities and the system of electronic interaction of executive authorities. Thus, a single end-to-end electronic document environment was created.

The integration of the electronic document management system with technological automated systems "Inventions", "Trademarks and Service Marks" and "Industrial Designs" provided the possibility of intersystem information interaction for internal and external electronic exchange: sending, receiving and processing legally significant electronic documents (signed with a qualified electronic signature). The developed functionality of the system ensures the registration of documents received in any manner: in paper form (with subsequent conversion into electronic format), by e-mail to the official address of Ukrpatent (office@ukrpatent.org), by fax or other telecommunications networks. The system implements the functions of document routing and control of personnel actions at all stages of creation and execution of documents. All personnel actions are recorded in the system log. The document card stores complete information about an electronic document, including dates, resolutions, responsible officers and information about actions taken.



In 2019, electronic applications were filed through several systems:

- the electronic applications filing system, version EAFS-1;

- the electronic applications filing system, version EAFS-2;

- the examining authority electronic interaction system (EAEIS).

Applications for inventions, utility models and marks for goods and services are filed through the EAFS-1 system; applications for industrial designs are filed through the EAFS-2 system. The document exchange between Ukrpatent and applicants is conducted through personal accounts of applicants.

In 2019, the EAFS-1 and EAFS-2 environments were refined to expand the functionality of the systems with:

- the possibility of signing files with a qualified electronic signature (QES) of any qualified trust service provider of Ukraine;

- a new module of signature verification with the help of the library of software cryptographic means of information protection;

- technical procedures for transferring applications between personal accounts of users;

- improved procedures for converting provided files into pdf format.

The EAEIS was created for electronic exchange between Ukrpatent and applicants, including application filing. Incoming documents to Ukrpatent from the EAEIS users are received through any channel: webportal, e-mail, SFTP. Outgoing documents from Ukrpatent are sent from technological automated systems and, depending on the settings of the EAEIS user, can be sent to recipients by the same channels: webportal, e-mail, SFTP.

Users can view lists of documents in the form of a table with the following details:

- sending channel;
- document type code;
- name of the document type;
- type of industrial property right;
- application or title of protection number;
- document status;
- registration date;
- registration number;

main document file and attachment document files.

In all the lists the search and view service function for documents is implemented.

### 4.3. The IT Infrastructure Development

The reliable high-performance IT-infrastructure, its compliance with the needs and specifics of Ukrpatent as the examining authority is the basis of its effective activity. The Ukrpatent IT infrastructure consists of the data processing center, the information and telecommunication system, the automated process control systems and the information protection system. The information and telecommunication system includes the data processing and storage center and the telecommunication network.

In order to support and develop the IT infrastructure of Ukrpatent in 2019, measures were taken to administer and monitor system and application resources of technological automated systems, monthly routine and other work were conducted aimed at maintaining the efficiency of software and hardware and maintaining the integrity of information stored in databases. For timely detection of errors and emergency situations, constant monitoring of the system software and hardware that ensure the operation of automated systems is established.

In 2019, as part of the implementation of the plan for further development of the communication network, for increase of bandwidth and fault tolerance, the following equipment was purchased and put into operation:

- three HPE Aruba 8320 32 40G LAN switches, designed to replace the core of the Ukrpatent local computer network and increase its bandwidth to 40 Gb;

- seven HPE Aruba 8320 48T/6 40 LAN switches, designed to replace failed equipment and to replace server switches and aggregation switches to increase their capacity and bandwidth to 10 Gb;

- ten modules for the HPE Aruba 2930M switch, designed for switching and access of switches to the new core at the speed of up to 10 Gb;

six network cards for the HPE Proliant DL380 Gen10 server, designed to replace network server adapters and increase their bandwidth to 10 Gb.

Veeam Availability Suite Enterprise backup or recovery software licenses (including

Backup & Replication Enterprise + Veeam ONE) were purchased for sixteen processors with 3-year technical support, which provides backup and recovery of Microsoft and Linux based virtual servers on four Hyper-V clusters.

## 5 Legal Support in the Field of Intellectual Property Rights Protection



### 5.1. Regulatory and Methodological Support in the Sphere of Intellectual Property Rights protection

Ukrpatent, within its competence, participates in submitting proposals for improving legislation. During 2019, the relevant comments and proposals to the draft laws of Ukraine, which were considered by the Verkhovna Rada of Ukraine, were processed and submitted, in particular:

- "On Amendments to Certain Legislative Acts of Ukraine Concerning the Implementation of Particular Provisions of the EU Legislation in the Sphere of Intellectual Property";
- "On Amendments to Certain Legislative Acts of Ukraine on Improving the Protection of the Rights to Semiconductor Product Layouts";

- "On Amendments to Certain Legislative Acts of Ukraine Concerning the Improvement of Legal Protection of Geographical Indications";
- "On Amendments to Certain Legislative Acts of Ukraine Concerning Strengthening the Protection and Enforcement of Rights to Trademarks and Industrial Designs and Combating Patent Trolling";
- "On Amendments to Certain Legislative Acts of Ukraine Concerning the Improvement of Legal Protection and State Registration of Intellectual Property Rights".

The draft laws "On Amendments to Certain Legislative Acts of Ukraine on Improving the Protection of the Rights to Semiconductor Product Layouts" (registration number 1062 as of August 29, 2019) and "On Amendments to Certain Legislative Acts of Ukraine Concerning the Improvement of Legal Protection of Geographical

Indications" (registration number 1065 as of August 29, 2019) were adopted by the Verkhovna Rada of Ukraine on September 19, 2019 under No. 111-IX and September 20, 2019 under No. 123-IX respectively. These laws amended the laws of Ukraine "On Protection of Rights to Topographies of Integrated Circuits" and "On Protection of Rights to Indications of the Origin of Goods", which were set out in new versions: "On Protection of Rights to Semiconductor Product Layouts" and "On Legal Protection of Geographical Indications".

The Law of Ukraine "On Protection of Rights to Semiconductor Product Layouts" provides for new definitions of the terms "semiconductor product layout" and "semiconductor product", specifies the conditions for granting legal protection and patentability conditions for a semiconductor product layout, updates requirements for an application for registration of a layout, improves the application examination procedure, clarifies the list of rights and obligations of a semiconductor product layout owner.

The Law of Ukraine "On Legal Protection of Geographical Indications" provides for new definitions of the terms "geographical indication", "the name of the place of origin of a good", specifies the conditions for granting legal protection to a geographical indication and grounds for refusing such protection, defines conditions for granting legal protection to homonymous geographical indications, specifies the range of persons who have the right for registration of a geographical indication; improves the examination procedure for applications for geographical indications; clarifies the list of rights and obligations arising from the state registration of geographical indications, etc.

The adoption of these laws will ensure achievement of the European level of protection of intellectual property rights to geographical indications and semiconductor product layouts as well as fulfillment of obligations undertaken by Ukraine under the Association Agreement with the European Union.

In 2019, in order to improve legal regulation in the field of legal protection of industrial property rights and to improve the quality of examination of applications, Ukrpatent participated in developing proposals for bylaws. In particular, the following draft regulations in the intellectual property sphere and conducive documents were prepared:

- the Procedure for submission, consideration, publication and entry in the registers of information on the fact of transfer of exclusive property rights to an industrial design and the granting of a license for the use of an industrial design;

- the Procedure for submission, consideration, publication and entry in the register of information on the transfer of exclusive property rights to a semiconductor product layout and the granting of a license for the use of a semiconductor product layout;

- the Procedure for submission, consideration, publication and entry in the registers of information on the transfer of exclusive property rights to the invention (utility model) and granting of a license for the use of an invention (utility model);

- the Resolution of the Cabinet of Ministers of Ukraine "On Amendments to the Procedure for Granting Permission to Use a Patented Invention (Utility Model) or a Registered Topography of an Integrated Circuit by the Cabinet of Ministers of Ukraine";

- the Instruction on the procedure for familiarization of a person with an IPR application materials;

- the Rules for compilation, filing and conducting examination of an application for registration of a geographical indication;

- the Procedure for maintaining the State Register of Ukraine of Semiconductor Product Layouts;

- the Rules for compilation, filing and conducting examination of an application for registration of a semiconductor product layout.

Over the reporting year, Ukrpatent provided more than 600 legal consultations, opinions and explanations to individuals or legal entities on various aspects of acquisition, protection and enforcement of industrial property rights.



## 5.2. Organizational and Technical Support for the Appeals Chamber Activities on Processing Oppositions and Requests to Declare Trademarks to be Well-known in Ukraine

The powers of the Appeals Chamber, the procedure for processing appeals in the Appeals Chamber against decisions of the Ministry for Development of Economy, Trade and Agriculture of Ukraine (Ministry) concerning the acquisition of intellectual property rights, the procedure for organizational and technical support of the Appeals Chamber and other issues within its competence are determined by the Rules of Procedure of the Appeals Chamber of the Ministry, approved by the Order of the Ministry No. 263 as of February 19, 2019.

In accordance with the statutory tasks, Ukrpatent provides organizational and technical support for the activities of the Appeals Chamber of the Ministry.

In 2019, the Appeals Chamber was made of 34 members, including 13 specialists processing the oppositions against decisions on applications for inventions (utility models), 21 members specialized on processing the oppositions against decisions on trademark and service mark applications as well as requests to declare a mark to be well-known in Ukraine.

In 2019, a total of 85 oppositions against the decisions filed with the Appeals Chamber of the Ministry were distributed by industrial property rights as follows: 12 oppositions (14.1%) – inventions, 2 oppositions (2.4%) – utility models, 71 oppositions (83.5%) – trademarks and service marks (see table 5.1).

Table 5.1. Oppositions filed by industrial property rights, 2015-2019

Industrial property rights	2015	2016	2017	2018	2019
<b>Total, including</b>	<b>95</b>	<b>119</b>	<b>103</b>	<b>102</b>	<b>85</b>
<b>Inventions</b>	10	15	11	8	12
<b>Utility models</b>	–	4	1	–	2
<b>Industrial designs</b>	–	1	–	–	–
<b>Trademarks and service marks</b>	85	99	91	94	71

In the reporting year, the Appeals Chamber board held 290 sessions where a total of 148 oppositions were processed. A total of 83 decisions of the Appeals Chamber were approved, in particular, 43 decisions were to fully satisfy the opposition, 2 decisions – to

partially satisfy the opposition and 38 decisions were to dismiss the opposition (see table 5.2, figure 5.1). The average time for processing the oppositions the decisions on which were made in 2019 amounted to 5 months.

Table 5.2. Appeals Chamber decisions on oppositions, 2015-2019

	2015		2016		2017		2018		2019	
	qty	%	qty	%	qty	%	qty	%	qty	%
<b>Decisions made, incl.</b>	<b>81</b>	100	<b>104</b>	100	<b>103</b>	100	<b>84</b>	100	<b>83</b>	100
to fully satisfy	38	46.9	69	66.3	64	62.1	38	45.2	43	50.6
to partially satisfy	5	6.2	2	2.0	4	3.9	2	3.6	2	3.6
to dismiss	38	46.9	33	31.7	35	34.0	44	52.4	38	45.8

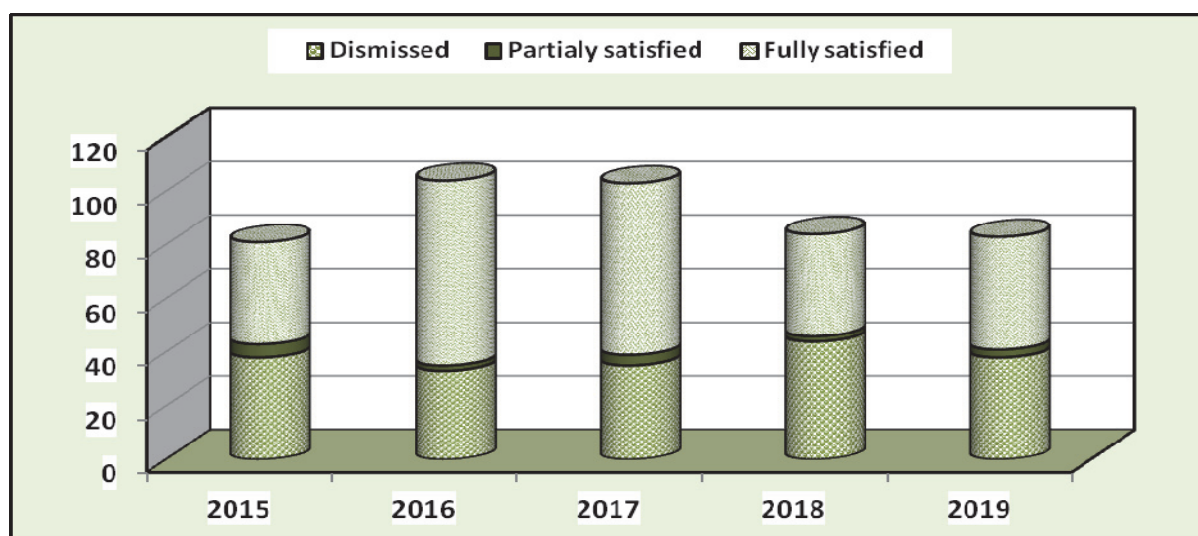


Figure 5. Opposition outcomes, 2015-2019

A total of 40 applications on declaration of a mark to be well-known were processed, including 29 applications filed in 2019, 11 applications – in previous years. A total of 18 decisions on satisfying the applications on

declaration of a mark to be well-known in Ukraine and 1 decision on dismissing the application were accepted, 1 application was withdrawn (see table 5.3).

Table 5.3. Processing of requests to declare a mark to be well-known in Ukraine, 2015-2019

	2015	2016	2017	2018	2019
Number of requests	12	30	20	13	29
Decisions made, incl.	6	12	23	9	19
<i>decisions to satisfy</i>	6	12	20	8	18
<i>decisions to dismiss</i>	–	–	3	1	1

### 5.3. Assistance in the Intellectual Property Rights Enforcement



In 2019, in order to ensure the representation of Ukrpatent and the Ministry, Ukrpatent representatives took part in 1,373 court ses-

sions on processing of cases concerning the protection of intellectual property rights. A total of 350 procedural documents (withdrawals, oppositions, clarifications, requests, complaints) were prepared for these proceedings.

A total of 186 statements of claim received in 2019 were processed, 164 proceedings thereof were commenced, including: 49 cases on invalidation of certificates for marks for goods and services (international registrations); 26 cases on invalidation of patents for utility models; 9 cases on invalidation of patents for industrial designs; 28 cases on early termination of certificates for marks for goods and services (international registrations); 16 cases on decisions of the Ministry on applications for registration of intellectual property rights, 36 cases

on other stated claims related, in particular, to the infringement of copyright, refusal of copyright registration, invalidation of agreements on transfer of IPR ownership, invalidation of legal regulations, orders, recognition of illegal actions.

According to jurisdictions, the proceedings initiated in 2019, were as follows:

- in commercial courts – 80 cases;
- in civil courts – 61 cases;
- in administrative courts – 23 cases.

A total of 227 decisions of courts of the first instance, appeal body and cassation courts were processed.

To comply with the court decisions (decisions on the enforcement of claims), measures were taken to the enforcement of 104 statements of claim, to cancel the enforcement of 30 claims, and to comply with 74 court decisions. A total of 781 documents on the enforcement of court judgments (official notes, letters to the Ministry, notifications to courts, applicants, enforcement bodies) were sent.

In 2019, according to court decisions, 37 certificates for marks for goods and services, 9 patents for industrial designs, 9 patents for utility models and 2 patents for inventions were invalidated (see table 5.4).

**Table 5.4. Titles of protection invalidated by court decision, 2015-2019**

Industrial property rights	2014	2015	2016	2017	2018	2019
<b>Total, including</b>	<b>113</b>	<b>78</b>	<b>45</b>	<b>41</b>	<b>60</b>	<b>57</b>
Inventions	–	–	2	1	1	2
Utility models	8	8	8	4	8	9
Industrial designs	45	39	6	5	11	9
Trademarks and service marks	60	31	29	31	40	37

## 5.4. Processing of Public Appeals on Intellectual Property Rights Protection and Enforcement

In 2019, Ukrpatent processed 465 public appeals, including 311 appeals from individuals,

114 those from legal entities and 40 appeals from governmental authorities (see table 5.5).

**Table 5.5. Appeals received by Ukrpatent by person categories and types of appeals, 2019**

Persons categories	Complaints	Statements	Information requests	Total
<b>Total, including</b>	<b>13</b>	<b>280</b>	<b>172</b>	<b>465</b>
individuals	9	205	97	311
legal entities	4	70	40	114
governmental authorities	–	5	35	40

The above appeals were processed pursuant to the procedure and within the time limit established by the laws of Ukraine "On the Public Appeals, "On the Status of a People's Deputy of Ukraine", "On the Advocacy and Advocacy Practice", "On the Access to Public Information".

A total of 199 appeals (43%) were processed for the period of no more than 5 days,

91 appeals (20%) – up to 10 days, 57 appeals (12%) – up to 15 days, and 118 appeals (25%) were considered for the period of no more than 30 days.

Compared to 2018, the total number of public appeals received by Ukrpatent in 2019 increased by 55%.

Out of the total number of public appeals processed in 2019, 63% of appeals (complaints

and statements) were from individuals and legal entities, 37% – public appeals from governmental authorities and lawyer requests.

The distribution of information requests by the parties of such appeals shows that 51% of the total number of requests processed in 2019 were lawyers requests for information

on registered intellectual property rights and proceedings on applications for industrial property rights, a total of 44% of requests were received from governmental authorities and legal entities, 5% represent information requests and public information requests (see table 5.6).

*Table 5.6. Public appeals processed by Ukrpatent, 2015-2019*

<b>Types of requests</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
Statements, complaints	135	127	122	119	293
Requests, including:	30	35	135	126	172
requests from governmental authorities and legal entities	15	22	74	44	75
lawyers requests	12	7	51	68	88
public information requests	3	6	10	14	9



## 6 Providing Public Access to the Information Relating to Intellectual Property Rights Protection

### 6.1. Internet Resources of Ukrpatent

In 2019, Ukrpatent was presented on the Internet by the following web resources:

- [www.ukrpatent.org](http://www.ukrpatent.org);
- [www.iii.ua](http://www.iii.ua);
- [www.exchange.iii.ua](http://www.exchange.iii.ua);
- [www.fabrikaidei.iii.ua](http://www.fabrikaidei.iii.ua);
- official page of Ukrpatent on the Facebook social network.

One of the most visited resources is the official website of Ukrpatent [www.ukrpatent.org](http://www.ukrpatent.org). In 2019 the works on its updating and improving continued. Over 520 information items were placed on its pages in Ukrainian and English, over 300 of which belong to the "News" category. Statistical and dynamic sections were updated by topical information on the events which

took place in the state system of intellectual property rights protection throughout the previous year. Over 460 photographic materials from conferences, seminars, meetings etc. were published. Sections and some subsections, useful both for specialists of the system and for applicants and interested parties (Industrial Property Rights, Databases and Information and Reference Systems, Fees and State Duties, Patent Information Collections, Legislation and Standards, For Users of Patent Information, Receiving Electronic Trust Services, etc.) were regularly updated.

In 2019 the Ukrpatent website attendance ratio has exceeded 644 thousand users which is 14 thousand more than previous year. The total number of the navigated web resource pages exceeded 1.6 million (Figure 6.1).

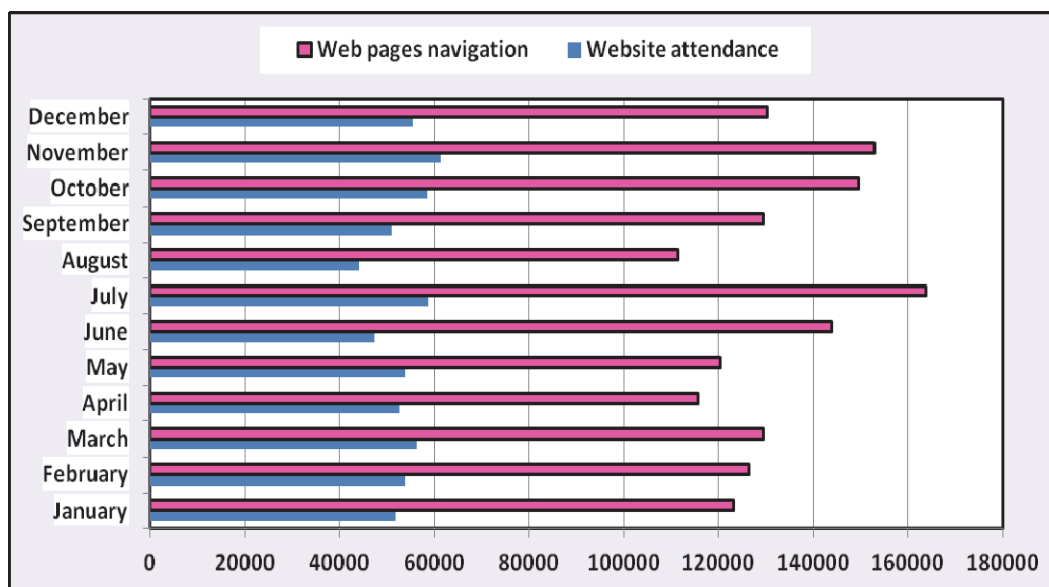


Figure 6.1. The number of visitors to the Ukrpatent official website ([www.ukrpatent.org](http://www.ukrpatent.org)), 2019

The website of Ukrpatent was the most popular among Ukrainian citizens (84.6% of the total number of visitors). The information on foreign

countries visitors to the website is presented in figure 6.2.

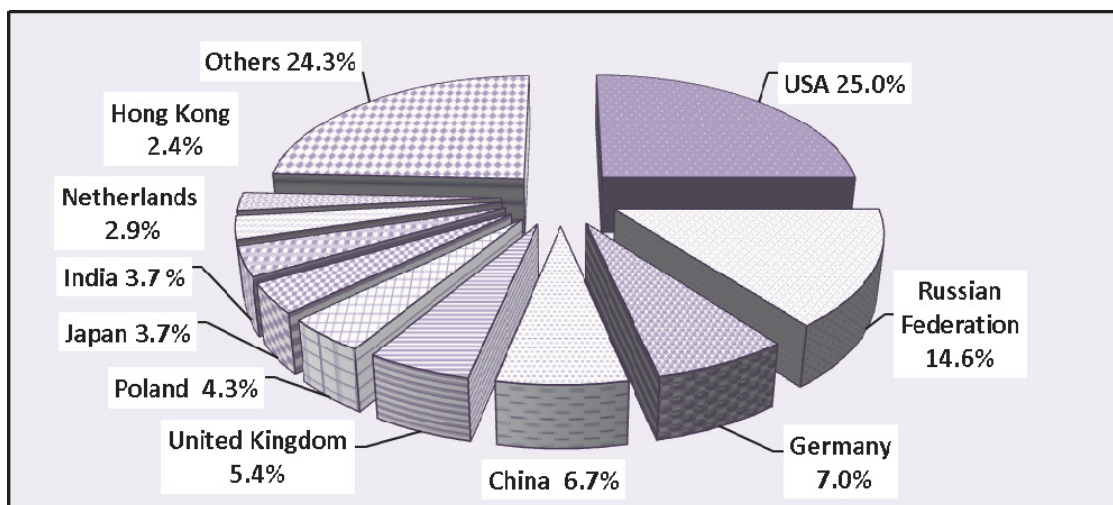


Figure 6.2. Foreign countries the visitors to the Ukrpatent official website ([www.ukrpatent.org](http://www.ukrpatent.org)), 2019

Over the course of 2019, in order to keep the Ukrpatent website up-to-date and informative, all sections and subsections related to patent information, documentation and standardization were regularly monitored and information was updated in the following sections, subsections (including English version of the Ukrpatent website):

- "Standards in the Field of Intellectual Property" ("WIPO Standards", "State Standards of Ukraine (DSTU)", "For Users of Patent Information" ("General Information", "Patent Information and Documentation News" "WIPO and EPO Learning and Reference Materials Available Free of Charge"), "Patent Information Collections" ("International Classifications", "Public Patent Documentation Collection (PPDC)", "Patent Information Base for Examination (PIB)");

- the List of Addresses of Foreign Databases Accessible Free of Charge on the Internet and the List of Scientific and Technical Databases and Reference Resources Accessible Free of Charge on the Internet were quarterly updated in the Hyperlinks section.

The innovative information resource the "Industrial Property Internet Exchange"

([exchange.iii.ua](http://exchange.iii.ua)) provides information on patented inventions, utility models, industrial designs, registered marks for goods and services and is designed to promote inventions and other industrial property rights on the market, to seek actively the potential investors and to place orders for the industrial sector of economy. The main purpose of the Factory of Ideas ([fabrikaidei.iii.ua](http://fabrikaidei.iii.ua)) is to identify, support and promote development of the gifted school, college and university students, young scientists, inventors and researchers. The indicated Internet resources provide the users with necessary information about partners and investors, relevant grants, competitions, conferences, research programs. In the reporting year, 147 projects related to the inventions and utility models, were produced, placed and updated at the Industrial Property Internet Exchange and 208 projects at the Factory of Ideas.

In order to provide information support and highlight peculiarities of intellectual property rights use in 2019, the "Information Support of Invention Activities" section, which contains "Methodological Support", "Grant Programs" and "Success Stories", was cre-

ated on the website of the Department of Patent Information Services, Consultations and Promotion of Innovative Activities of Ukrpatent.

## **6.2. Interactive Databases and Information and Reference Systems**

Access to standardized and up-to-date data on claimed and registered industrial property rights, from the filing stage till termination of industrial property rights, is crucial and vital for intellectual property professionals and a wide range of users.

Eight databases (DB) and six information and reference systems (IRS) are in operation at the Ukrpatent website for industrial property rights to which legal protection is granted in Ukraine, namely:

- DB "Electronic Version of the Cumulative Official Bulletin "Industrial Property";
- Specialized DB "Inventions (Utility Models) in Ukraine";
- Collective Access DB "Information on Invention Applications Accepted for Examination";
- DB "Trademarks and Service Marks Registered in Ukraine";
- DB "Information on Well-Known Marks in Ukraine";
- Interactive DB "Applications for Trademarks and Service Marks Accepted for Examination";
- Interactive DB "Industrial Designs Registered in Ukraine";
- Information on Qualified Indications of Origin of Goods Registered in Ukraine;
- IRS "Invention and Utility Model Applications Prosecution Status";
- IRS "Information on Patents of Ukraine for Inventions (Utility Models) being Invalidated or Expired";
- IRS "Information on Prosecution Status of Trademark Applications";
- IRS "Information on Certificates of Ukraine for Trademarks and Service Marks being Terminated or Invalidated";
- IRS "Prosecution Status of Industrial Design Applications";

– IRS "Information on Patents of Ukraine for Industrial Designs being Invalidated or Expired".

In addition, four IRS for the International Classifications translated into Ukrainian are in operation.

In 2019 users of IRS for international classifications had the opportunity to conveniently and quickly access all editions/versions of classifications translated into Ukrainian, which have expired and are available for information purposes only. Thus, in the IRS for the International Patent Classification (IPC), the International Classification of Goods and Services for the Purposes of the Registration of Marks (NCL), the International Classification for Industrial Designs (LOC) and the International Classification of the Figurative Elements of Marks (VCL) the option of access to the full array of classification materials translated into Ukrainian is implemented: from IPC 2006.01 to IPC 2019.01, from NCL 7 to NCL (11-2019), VCL (6) and VCL (7), from LOC (9) to LOC (11).

In order to provide information support to a wide range of users of international classifications translated into Ukrainian, the feedback functions were implemented in the IRS environments for the NCL and the LOC for their users to contact Ukrpatent specialists.

In 2019, a new information resource named the Ukrpatent Special Information System (SIS) (<https://sis.ukrpatent.org/uk/search/simple/>) was launched. The SIS provides access to information on all industrial property rights in the mode as close as possible to the real time. The system search engine which has a universal search interface provides open and authorized access (using a qualified electronic signature) to any document of the electronic file. The SIS has a simple and advanced search engines. The Advanced Search has additional search tools that can be used to restrict the search by category of industrial property right and its legal status.

In 2019, about 80,000 users accessed the services of Internet databases and conducted over 2.9 million searches and viewed 7.4 million documents.

### 6.3. Publications in the Sphere of International Property Rights Protection

In the reporting year, the Bulletin "Industrial Property" was issued regularly twice a month and the Bulletin "Copyright and Related Rights" – six times per year. The Catalogue of State Registrations and Annual Index to the Bulletin "Industrial Property" for 2018 were also issued in the reporting year.

The statistical review "Industrial Property in Figures" was issued quarterly, illustrating statistical information and analytical materials on applications filed and industrial property rights registered, inventive activities of resident applicants.

In table 6.1 the figures on total number of publications on industrial property rights in 2019 are presented.

Table 6.1. Publications on Industrial Property Rights, 2019

Type of Publication	Number of Publications
Applications for inventions accepted for examination	3,604
Patents of Ukraine for inventions	2,268
Patents of Ukraine for utility models	8,413
Patents of Ukraine for industrial designs	2,595
Certificates of Ukraine for trademarks and service marks	17,478
Well-known marks in Ukraine	25
Applications for the registration of qualified indications of the origin of goods and/or the right to use qualified indications of the origin of goods accepted for examination	4
Registration of the qualified indications of origin of goods	2
Registration of the right to use qualified indications of the origin of goods	1
Marks registered under the Madrid Agreement Concerning the International Registration of Marks and/or the Protocol Relating to the Madrid Agreement, to which protection was granted in Ukraine	7,278

In the reporting period, the distribution of publications of the state system of intellectual property rights protection (on optical carriers) was provided on a fee and free-of-charge basis.

In particular, free-of-charge acquisition of patent collections of certain organizations of Ukraine by current national patent documentation – the Bulletin "Industrial Property" on CD-ROM and the National CD-ROM "Inventions in Ukraine" containing the specifications

of inventions or utility models, was in progress. Patent documentation was distributed according to the approved registries of free-of-charge distribution.

Alongside this, the indicated publications and other patent information products on optical carriers were distributed on a paid basis.

In table 6.2 the figures on distribution of national patent information products in 2019 are presented.



**Table 6.2. Distribution of Patent Information Products on Optical Carriers, 2019**

Patent information product	Free-of-charge distribution		Paid distribution
	Ukrainian organizations	Intellectual property offices or organizations	
Yearly sets			
CD-ROM "Bulletin "Industrial Property"	31	7	1
CD-ROM "Inventions in Ukraine"	23	4	–
CD-ROM "Trademarks and Service Marks Registered in Ukraine"	1	–	2
CD-ROM "Industrial Designs Registered in Ukraine"	–	–	1
CD-ROM "Bulletin "Copyright and Related Rights"	13	–	–

The data on patent information products are available on the website of Ukrpatent in the "Publications in the sphere of international property rights protection" section and under

the heading "Patent Information Products on Optical Carriers" in the Reference and Information Publications" section.

#### **6.4. Provision of Patent Information Services and Consultations in the Field of Intellectual Property**



In 2019, in order to meet the needs of legal entities and individuals in services related to the acquisition and utilization of intellectual property rights, 11,287 agreements were con-

cluded by the Department of Patent Information Services, Consultations and Promotion of Innovative Activities of Ukrpatent in accordance with the current procedure.

A great part of concluded agreements concerned the following types of patent information services:

- search for identical and similar designations through the information database of Ukrpatent;
- provision of services at the request of a customer to set the deadline for the examination of the application for a mark for goods and services;
- carrying out of the name and subject matter information searches;
- provision of practical recommendations on drafting application materials for IPR;
- drafting and filing of applications for registration of copyright or agreements relating to copyright.

In 2019, advisory services on general and informative issues were provided free of charge. In general, 41,316 requests were received by the Department of Patent Information Services, Consultations and Promotion of Innovative Activities of Ukrpatent for the period under review.

Among the most common issues are the following:

- issues related to the procedure for obtaining the legal protection for IPR (drafting, filing and carrying out examination of applications) and payment of fees for the actions related to the protection of IPR, above all for marks for goods and services;
- issues related to filing of applications for the registration of copyright or agreements relating to author's right;
- issues related to patent and information searches in the Internet databases and information and reference systems.

Pursuant to the inquiries of the Ministry of Justice of Ukraine, court-appointed managers, trustees in enterprises bankruptcy, 7,062 name (company) information searches of data on IPR in Ukraine were carried out, including on a paid basis. In the course of reporting period, practical, methodological assistance as to intellectual property commercialization and related to the disclosure of intangible assets usage and taxation of the related transactions in the balance sheet was provided to applicants and owners of titles of protection for IPR in the reporting year.

## ***The Public Patent Documentation Collection***

In order to satisfy public needs for patent information in Ukraine, the Public Patent Documentation Collection (PPDC) functions within the structure of the Department of Patent Information Services, Consultations and Promotion of Innovative Activities of Ukrpatent.

For a long time the international exchange of patent documents with foreign patent offices has remained the main source of the PPDC acquisition.

In the reporting period, the acquisition of the PPDC by national and foreign patent documentation continued and it was supplemented, in particular, with 341 optical disks. As of December 31, 2019, the PPDC collection on optical media contained over 34 thousand copies. The PPDC is also supplied with scientific and technical literature, methodical, reference-information publications and periodicals.

The PPDC provides patent information services to the public both directly in its reading room and in remote access mode.

Information on the content of the PPDC and its quarterly updates was published in the appropriate sections on the website of Ukrpatent as well as on the webpage of its Department of Patent Information Services, Consultations and Innovation Activity Promotion (<http://iii.ua/>).

## ***Technology and Innovation Support Centers***

As part of the WIPO international project, aimed at stimulation of the development of innovation and economic growth by facilitating access to technological information, as well as increasing the opportunities for effective use of such information, a network of Technology and Innovation Support Centers (TISC) in Ukraine is being created. On November 22, 2018, the first TISC was launched in Ukraine on the basis of National Intellectual Property Office.

During 2019, ten TISCs were opened on the basis of higher education institutions, namely at V.N. Karazin Kharkiv National University, Kharkiv National University of Radio Electronics, National Aviation University, Lviv Polytechnic National University, Kyiv National

University named after Vadym Hetman, Kharkiv Polytechnic University, Ternopil National Economic University, Vinnytsia National Agrarian University, Dnipro National University of Railway Transport named after Academician V. Lazaryan and Chernihiv National Technological University.

Among the main tasks of TISCs are the following:

- provision of access to patent and non-patent databases, other sources of information and support in their use;
- provision of consultations on the protection and enforcement of intellectual prop-

erty rights, technology transfer, peculiarities of certain fields of industries;

- provision of services at different stages of an innovative product development.

During 2019, the Central TISC provided 150 services on patenting, registration of marks for goods and services in Ukraine and abroad, carrying out of patent search, preparation of intellectual property agreements, analysis of legislative situation and protection of copyright and related rights as well as on the rights protection strategy.

## 7 Participation in Activities on Development of International Cooperation in the Intellectual Property Sphere



### 7.1. Cooperation with the World Intellectual Property Organization

During the reporting year, Ukrainian specialists took an active part in the work of the World Intellectual Property Organization (WIPO) and closely followed the processes of adoption of important decisions to timely respond and ensure Ukraine's participation

in the implementation of the WIPO policy with due consideration of the national interests of our country. In view of this, the Ukrainian specialists take part in the work of the decision making bodies of WIPO, as well as its principle committees and working groups, on a regular basis.

The list of events attended by specialists of Ukrpatent in 2019 is presented in table 7.



**Table 7. WIPO events attended by specialists of Ukrpatent**

<b>Event Title</b>	<b>Event Venue and Date</b>
Meeting of International Authorities under the Patent Cooperation Treaty: Twenty-Sixth Session. ISA and IPEA Quality Subgroup	Cairo Arab Republic, Egypt February 11-14, 2019
Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore: Thirty-Ninth Session	Geneva Swiss Confederation March 18–22, 2019
Standing Committee on the Law of Trademarks, Industrial Designs and Geographical Indications: Forty-First Session	Geneva Swiss Confederation April 8-11, 2019
Committee of Experts of the Nice Union: Twenty-Ninth Session	Geneva Swiss Confederation April 29-May 3, 2019
Program and Budget Committee: Twenty-Ninth Session	Geneva Swiss Confederation May 6-10, 2019
Committee on Development and Intellectual Property (CDIP): Twenty-Third Session	Geneva Swiss Confederation May 20-24, 2019
Patent Cooperation Treaty (PCT) Working Group: Twelfth Session	Geneva Swiss Confederation June 11-14, 2019
Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore: Fortieth Session	Geneva Swiss Confederation June 17-21, 2019
Standing Committee on the Law of Patents: Thirtieth Session	Geneva Swiss Confederation June 24-27, 2019
Committee on WIPO Standards (CWS): Seventh Session	Geneva Swiss Confederation July 1-5, 2019
WIPO Working Group on the Legal Development of the Madrid System for the International Registration of Marks: Seventeenth Session	Geneva Swiss Confederation July 22-26, 2019
Assemblies of the Member States of WIPO: Fifty-Ninth Series of Meetings	Geneva Swiss Confederation September 30-October 9, 2019
Standing Committee on the Law of Trademarks, Industrial Designs and Geographical Indications: Forty-Second Session and IPC Revision Working Group: Forty-Second Session	Geneva Swiss Confederation November 4-8, 2019
Committee on Development and Intellectual Property (CDIP): Twenty-Fourth Session	Geneva Swiss Confederation November 18-22, 2019

In October 2019, as part of the 59th Member States of WIPO (September 30 – October 9, 2019, Geneva, Swiss Confederation), Series of meetings of the Assemblies of the

the meeting of the delegation of the Ukrainian Government and Mr. Francis Harry, the Director General of aforementioned international organization, was held to discuss the issues of bilateral cooperation in the IP sphere, in particular, on holding joint conferences, seminars, round tables in Ukraine, accomplishment of joint projects in the field of intellectual property as well as implementation of other activities of the interest to Ukraine.

An important event during the meeting was the conclusion of the Cooperation Program between WIPO and the Ministry for Development of Economy, Trade and Agriculture of Ukraine (Ministry) for the 2020-2021 biennium and the Memorandum of Understanding between the Ministry and WIPO.

The Cooperation Program identifies priority areas of cooperation for the next two years, in particular the establishment of the National Intellectual Property Training Center; development of an Action Plan for the implementation of the National Intellectual Property Strategy; improvement of the national legislation; development of the network of Technology and Innovation Support Centers; accession of Ukraine to the Marrakesh Treaty to Facilitate Access to Published Works for Persons Who Are Blind, Visually Impaired, or Otherwise Print Disabled, as well as holding joint seminars, conferences, etc.

The conclusion of the Memorandum of Understanding between the Ministry and WIPO in regards to creating the National Intellectual Property Training Center will allow for the creation of the national intellectual property training and education center in Ukraine with the assistance of the WIPO Academy, which will organize training programs and courses on various issues in the IP field.

For the first time ever, within the framework of the 59th Series of Meetings of the Assemblies of the Member States of WIPO, a cultural event "The Day of Ukraine" dedicated to presentation of the Ukrainian national trade show-exhibition "Innovative Ukraine – From Soul to Brain" with the concept of reflecting the history and traditions of Ukraine, as well as the demonstration of modern innovative

achievements of Ukrainian top startups and current models in the field of information and high technology in the hands on mode, was held. The products of the national companies were presented at the Ukrainian exhibition, including Pix Backpack, Cardiomio, Delfast Bikes, LimpidArmor, SolarGaps, CamTouch.

The cultural element of the exposition was a model range of clothes by the design studio of Oksana Polonets, who represented a modern interpretation of Ukrainian national clothes. The National Academic Orchestra of Folk Instruments of Ukraine (NAONI) performed within the concert program.

In 2019, in compliance with the said Cooperation Program of the Ministry and WIPO, in cooperation with the National Intellectual Property Office and Ukrpatent a number of events were held on various IP issues in Ukraine, including:

- WIPO Expert Mission on Development of a National Intellectual Property Strategy;
- WIPO Regional Workshop on Traditional Knowledge;
- Seminar on Mediation in the field of IP and technological disputes;
- Patent Drafting Seminar;
- IP Seminar for Journalists;
- Regional Seminars on the Patent Cooperation Treaty (PCT) and the Madrid System for International Registration of Marks in Dnipro and Kharkiv;
- WIPO-Ukraine Summer School on Intellectual Property for students and young professionals.

## **7.2. Cooperation with the European Union**

Cooperation with the European Union (EU) and discussion of issues on implementation of the Association Agreement between Ukraine and the EU in the IP field took place, in particular, in the framework of a Dialogue on Intellectual Property Rights between the European Commission and Ukraine, the Ukraine-EU Sub-Committee on Geographical Indications and the Association Committee in trade configuration.

On May 15, 2019, the third meeting of the Ukraine-EU Sub-Committee on Geographical Indications of the Association Committee in trade configuration was held in Kyiv. During the meeting, in accordance with the draft Agenda, the issues of legislative and policy developments on geographical indications in Ukraine and the EU were discussed; amendments of Annexes XXII-C and XXII-D of the Association Agreement between Ukraine and the EU, as well as law enforcement and protection under the Association Agreement between Ukraine and the EU and the course of implementation of the EU Technical Assistance Project on Geographical Indications "Support to the Development of a Geographical Indications System in Ukraine".

The purpose of the EU Technical Assistance Project "Support to the Development of a Geographical Indications System in Ukraine" is to support the implementation of the Association Agreement on geographical indications and create the Ukrainian system of geographical indications for wines, aromatized wines, spirit drinks, agricultural products and foodstuffs (the project implementation period lasts from September 1, 2017 till September 1, 2020). During 2019, actions were taken to accomplish the following project objectives: improvement of legislation, rebranding of products with registered European geographical indications, registration of Ukrainian geographical indications, development of rural territories related to geographical indications.

On June 26, 2019, a regular meeting of a Dialogue on Intellectual Property Rights between the European Commission and Ukraine was held in Kyiv. In the course of the meeting, the issues of progress of the reform in the IP field, implementation of the Association Agreement between Ukraine and the EU, law enforcement, collective rights management, etc. were considered.

### 7.3. Bilateral Cooperation

During the year, in the framework of bilateral cooperation in the field of IP legal protection, Ukrpatent specialists participated in

the work of bilateral commissions, seminars, conferences and round tables organized by government institutions and IP patent offices of foreign countries.

In June 2019, the Intellectual Property Representative of the United States of America Mr. Jerome Smith visited Ukrpatent; the purpose of the visit was to discuss the practice of patenting in the US computer industry, in particular on improvement of the patenting mechanisms for computer technology inventions and on the US court practices in this area.



In July 2019, the official delegation of the China Council for the Promotion of International Trade (CCPIT), Guangzhou, visited Ukrpatent. The main purpose of the visit was to intensify the Ukrainian-Chinese cooperation in the intellectual property sphere and to discuss proposals for further cooperation, as well as to study the activities of Ukrpatent as an Examining Authority.

In the reporting year, the cooperation with the Intellectual Property Agency of the Republic of Azerbaijan (Azpatent) was continued in the framework of sharing experiences on patent examination issues. Thus, in August 2019, Mr. Ali Ismailov, the Head of the Training and Innovation Promotion Center of the Azpatent Office for Examination of Patents and Trademarks visited Ukrpatent. During the visit, the possibilities of organizing joint training events for examiners from both Offices and other issues were discussed.

In November 2019, the official delegation of the Embassy of France in Ukraine visited Ukrpatent. The delegation included Nelson Emery, the Counselor for Intellectual Property

in the CIS, and Matilda Arzhakovsky, the Economic Attaché of the Embassy of France in Ukraine.

During the meeting, Ukrpatent specialists presented the enterprise capabilities and main achievements in improving the process of examination of IPR applications in Ukraine to the French delegation. The issues of ensuring

the full cycle of acquisition of IPR rights, work of Ukrpatent as an International Searching and Preliminary Examining Authority (ISA/IPEA), functioning in the capacity of the Center of International Exchange of Publications, transition to electronic form of application filing, improvement of the national judicial system, etc. were discussed.



## 8 Professional Training and Skills Upgrading. Dissemination of Intellectual Property Knowledge



### 8.1. Educational Center in the field of IP

The National Educational Center in the field of IP (IP Academy) was established in accordance with the Memorandum of Understanding between the Ministry of Economic Development, Trade and Agriculture of Ukraine (Ministry) and the World Intellectual Property Organization (WIPO) dated October 3, 2019. It operates on the basis of the Division of Curricula and Educational

Activities of the Department of Intellectual Property Relations Development of Ukrpatent (the former structural unit of the National Intellectual Property Office). The IP Academy has the status of the first and unique national training center for intellectual property in Ukraine. Today, there are only eight WIPO training centers in the world that train specialists in Master's Programs.

The mission of the IP Academy is providing educational services and carrying out educa-

tional activities for social, cultural and economic development of the country, fostering respect for the rights of creators of intellectual property objects in the society, promoting development and strengthening of human resources in the field of intellectual property.

The license of the Ministry of Education and Science of Ukraine to carry out educational activities and the status of the national training and educational center in the field of IP with the support of the WIPO Academy was received in 2019, the draft guidelines on intellectual property policy in higher education institutions and research institutions and the project of educational curriculum for the training of candidates for patent attorneys were developed.

The concept for five educational projects has been formed and their implementation has been partially started:

- **The project "Academy Children"** is aimed at the development of creative personality and innovative thinking; consists of the educational project "Portal of creative ideas" in the "School of Superheroes" space at the National Children Specialized Hospital "OKHMATDYT" of the Ministry of Health of Ukraine and the educational project for primary school children "Idea-Application Art" and provides educational activities in the field of IP for schoolchildren;

- **The project "Academy Teenager"** is aimed at forming the culture of respect for intellectual property, the acquisition of primary skills on the basics of intellectual property, consists of the educational project for middle school children "Right to Creativity", the educational project for high school children "Fundamentals of intellectual property rights protection and ways to settle disputes";

- **The project "Academy Students"** provides training for future professionals in the field of IP and includes an international summer school on intellectual property, traineeships at the authorities of the state system of intellectual property rights protection, educational activities aimed at respecting the rights of intellectual property creators, training in the art of negotiation and conflict resolution in the field of intellectual property;

- **The project "Creative Industries & Startup"** aims to raise awareness of the creative industries to ensure legal protection of

creative activities and consists of the educational project for representatives of the creative industries "Copyright and Related Rights", the educational project for inventors and others stakeholders of the innovation process "Industrial Property Law", special educational projects on the protection and commercialization of intellectual property in certain areas of creative industries.

- **The project "Academy Basic & Next Level"** aims to improve competencies and provide in-depth knowledge in the field of intellectual property and consists of advanced training and professional training (candidates for patent attorneys; candidates for court experts in the field of intellectual property; specialists for professional evaluation activities, mediators in the field of intellectual property, public sector representatives, etc.).

## 8.2. Information and education activities



The important area of activity is the formation of legal culture on intellectual property, raising awareness on the exercising of IPR and popularization of intellectual property among the population of Ukraine. For this purpose, a number of events were organized and held in 2019.

On June 20-21, 2019, the National Forum on Intellectual Property IP LET FORUM was held, which brought together representatives of the government, the international community and national experts in the field of law, economics and technology. The Forum was organized by the Ministry, WIPO and the National Intellectual Property Office. The program of the Forum included 6 thematic panels,

which addressed the issues of artificial intelligence, blockchain, augmented reality (AR/VR) and the development of the Gamedev sphere. The event was attended by more than 500 participants and more than 20 regional and international speakers.

Intellectual Property Marathon (IP Marathon) is the competition among teams and individual participants on presentation of their inventions, utility models, industrial designs, know-how and other results of intellectual and creative activities, organized by the Ministry and the National Intellectual Property Office with support of the Ministry of Education and Science of Ukraine and the Ukrainian Institute of Scientific and Technical Examination and Information in order to encourage Ukrainian youth to participate in the innovative projects.

Twelve university teams from eight cities of Ukraine – Kyiv, Zhytomyr, Kharkiv, Dnipro, Mykolayiv, Sumy, Ternopil, Melitopol took part in the competition.

During the marathon, experts identified the best teams which had developed projects for commercialization of inventions and presented them.

The International Summer School on Intellectual Property is a two-week intensive training course based on the WIPO educational program specially developed for Ukraine, was held in July 2019. The Summer School was attended by 23 students from six countries. The program consisted of lectures by the WIPO experts and IP experts, as well as case studies and group discussions on protection of copyright and related rights, industrial property rights, disposition of intellectual property rights, intellectual property rights enforcement, technology transfer and licensing, management of intellectual property assets in business.

The International Forum "Innovation Market" is the meeting place for innovators, inventors, manufacturers and vendors of leading innovative technologies, innovation experts, authors of startup projects, business representatives, investment and financial institutions

representatives, intellectual property protection consultants.

Within the framework of the IV International Forum "Innovation Market" (November 5-7, 2019), the program of measures of the state system of intellectual property rights protection devoted to a wide range of issues in the field of intellectual property and innovation was presented.

During the "Innovation Market" Forum the following events were held:

- presentation of the innovative brand of Ukraine "From Soul to Brain" and the National IP Training Center of the WIPO Academy, the Draft of the National Strategy for IP Development in Ukraine;

- signing a memorandum on cooperation between the National Office of Intellectual Property, the Small Academy of Sciences and the Ukrainian Alliance against Counterfeiting and Piracy;

- the discussion panel "Combating counterfeit products in the Ukrainian realities at the border, in the domestic market and in the Internet" and the scientific and practical seminar "Technology transfer: economic and legal support of IP";

- the Second General All-Ukrainian Congress of the TISC Project Participants was organized.

In 2019, the first "International School of Intellectual Property for Mediators" was held in the form of a three-day intensive training course for mediators in the field of IP where participants worked with leading national and international trainers. The training was attended by 53 people who received certificates on the training course completion.

Tours in the Museum of Intellectual Property Rights Protection were conducted for student groups, foreign guests and other visitors in order to promote educational activity in the intellectual property sphere, popularize by means of museum collection the history of the state system of intellectual property rights protection, as well as the cultural heritage of Ukraine. The total number of visitors of the Museum in 2019 amounted to 213.

# Annexes

## 1. Statistics

### 1.1. Applications for inventions by origin and procedure, 2015-2019

Code	Country	National procedure					PCT procedure				
		2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<b>UA</b>	<b>Ukraine</b>	<b>2,271</b>	<b>2,230</b>	<b>2,282</b>	<b>2,105</b>	<b>2,096</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1</b>
AT	Austria	1	–	–	3	1	41	25	34	29	30
AU	Australia	2	1	–	1	–	10	9	7	8	9
BE	Belgium	2	9	7	1	2	38	39	52	44	42
BY	Belarus	–	2	6	3	4	2	1	–	1	1
CA	Canada	2	–	2	–	1	13	18	14	10	14
CH	Switzerland	8	7	3	4	4	229	240	199	218	183
CN	China	1	–	1	2	–	24	30	32	37	51
CY	Cyprus	3	1	5	13	5	–	4	–	1	2
CZ	Czech Republic	4	2	1	–	3	15	12	2	7	6
DE	Germany	42	20	25	31	29	260	209	206	249	200
DK	Denmark	5	2	6	8	3	41	26	30	32	28
ES	Spain	1	–	1	2	1	24	24	14	11	18
FI	Finland	–	1	1	2	–	20	13	12	13	13
FR	France	6	8	12	14	5	105	91	71	56	61
GB	United Kingdom	16	13	5	6	7	90	75	69	88	77
HU	Hungary	–	–	–	–	–	7	8	3	8	8
IE	Ireland	2	–	–	2	1	24	9	10	7	4
IL	Israel	1	2	6	3	1	33	26	7	4	12
IN	India	3	2	1	3	2	18	22	13	14	31
IT	Italy	1	2	5	4	7	69	44	42	48	22
JP	Japan	6	4	3	1	2	66	64	56	50	55
KR	Republic of Korea	1	1	3	3	1	19	25	15	19	27
LV	Latvia	2	–	–	2	3	–	6	–	1	2
LU	Luxemburg	2	1	1	2	–	25	57	48	59	43
MD	Moldova	–	–	–	–	1	–	–	1	–	3
MX	Mexico	–	–	–	–	–	1	2	2	3	7
NL	Netherlands	4	3	4	5	5	45	53	43	61	32
NO	Norway	–	–	1	–	–	13	10	11	9	9
PL	Poland	10	8	3	10	4	24	12	21	13	13
PT	Portugal	–	–	–	1	–	2	7	–	–	4
RU	Russian Federation	27	23	10	5	9	29	30	47	44	41
SE	Sweden	2	–	1	3	–	38	25	18	28	29
SG	Singapore	–	–	–	2	–	4	7	1	6	6
SK	Slovakia	–	–	11	10	1	2	–	1	–	4
TR	Turkey	1	–	1	1	1	16	12	17	8	9
US	USA	75	64	84	96	91	601	414	429	401	435
VG	Virgin Islands (British)	–	–	1	2	3	1	–	1	1	1
	Others	5	16	3	5	5	38	21	20	23	21
	<b>Total</b>	<b>2,506</b>	<b>2,422</b>	<b>2,495</b>	<b>2,355</b>	<b>2,298</b>	<b>1,989</b>	<b>1,671</b>	<b>1,552</b>	<b>1,613</b>	<b>1,554</b>



## 1.2. Resident applications for inventions by regions of Ukraine, 2015-2019

Region	2015	2016	2017	2018	2019
The Autonomous Republic of Crimea	7	4	9	5	1
Vinnytsia	50	56	42	36	51
Volyn	14	9	12	11	4
Dnipropetrovsk	226	224	236	225	192
Donetsk	48	56	64	55	74
Zhytomyr	20	25	30	31	22
Zakarpattia	54	36	54	45	48
Zaporizhia	98	99	86	72	48
Ivano-Frankivsk	49	48	41	47	45
Kyiv Region	115	70	94	81	63
Kirovohrad	13	23	28	35	21
Luhansk	19	18	43	17	14
Lviv	95	105	100	97	94
Mykolaiv	34	43	32	24	24
Odesa	165	158	169	141	145
Poltava	27	27	24	27	25
Rivne	11	6	10	6	12
Sumy	35	14	27	28	22
Ternopil	21	14	27	26	29
Kharkiv	344	364	342	282	346
Kherson	16	20	18	14	23
Khmelnyskyi	13	14	36	15	8
Cherkasy	14	36	43	18	42
Chernivtsi	12	10	8	10	4
Chernihiv	10	25	35	22	16
Kyiv	758	727	676	734	724
Sevastopol	5	–	–	1	–
Not classified	–	–	–	2	–
<b>Total</b>	<b>2,273</b>	<b>2,231</b>	<b>2,286</b>	<b>2,107</b>	<b>2,097</b>

### 1.3. Applications for inventions by technology fields, 2015-2019

Technology field	Resident applicants					Non-resident applicants				
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<b>Electrical engineering</b>										
Electrical machinery, apparatus, energy	105	118	89	96	84	37	55	38	30	31
Audio-visual technology	11	9	12	17	9	36	6	8	5	6
Telecommunications	19	16	17	10	14	3	3	2	5	3
Digital communication	8	4	12	4	6	23	9	5	12	4
Basic communication processes	9	25	14	11	9	1	3	5	1	1
Computer technology	41	41	59	28	30	26	16	14	21	17
IT methods for management	2	5	6	10	7	6	10	10	10	8
Semiconductors	13	7	7	9	12	1	2	0	1	1
<b>Instruments</b>										
Optics	16	12	10	15	10	3	5	2	2	2
Measurement	161	145	127	156	124	27	19	27	24	26
Analysis of biological materials	71	56	54	59	40	13	11	15	8	8
Control	42	32	26	31	43	10	9	12	12	10
Medical technology	177	208	180	210	132	49	42	30	41	44
<b>Chemistry</b>										
Organic fine chemistry	31	50	66	42	43	238	208	180	186	163
Biotechnology	26	23	28	32	22	169	148	177	210	206
Pharmaceuticals	108	144	127	125	132	468	382	350	336	330
Macromolecular chemistry, polymers	17	13	20	18	17	29	17	19	27	30
Food chemistry	124	100	105	120	85	59	53	58	65	56
Basic materials chemistry	70	69	67	60	51	240	176	163	150	154
Materials, metallurgy	98	91	123	83	73	92	92	88	81	74
Surface technology, coating	36	41	36	50	46	34	33	21	30	21
Micro-structural and nano-technology	9	6	14	10	12	2	1	2	2	–
Chemical engineering	109	93	115	107	88	67	44	47	41	49
Environmental technology	62	51	56	40	32	30	19	15	19	15
<b>Mechanical engineering</b>										
Handling	53	59	45	25	42	94	52	86	70	50
Machine tools	66	92	81	58	57	30	28	22	27	30
Engines, pumps, turbines	125	113	108	101	105	38	36	29	23	26
Textile and paper machines	15	10	8	17	13	20	15	21	24	21
Other special machines	138	131	175	175	144	98	66	69	101	104
Thermal processes and apparatus	74	74	59	64	44	32	37	32	31	20
Mechanical elements	63	47	74	56	37	21	25	25	25	21
Transport	79	78	104	73	75	25	35	27	41	25
<b>Other fields</b>										
Furniture, games	28	26	25	23	19	23	26	14	15	20
Other consumer goods	26	22	23	22	19	99	118	87	119	98
Civil engineering	103	120	104	107	98	74	53	51	54	42
Others and not classified	138	100	110	43	323	5	8	10	12	39
<b>Total</b>	<b>2,273</b>	<b>2,231</b>	<b>2,286</b>	<b>2,107</b>	<b>2,097</b>	<b>2,222</b>	<b>1,862</b>	<b>1,761</b>	<b>1,861</b>	<b>1,755</b>

#### 1.4. Patents for inventions by origin, 2015-2019

Code	Country	2015	2016	2017	2018	2019
<b>UA</b>	<b>Ukraine</b>	<b>1,516</b>	<b>1,277</b>	<b>1,224</b>	<b>1,203</b>	<b>1,248</b>
AT	Austria	49	38	25	19	28
AU	Australia	9	18	7	8	7
BE	Belgium	51	37	29	26	27
BG	Bulgaria	1	4	1	–	1
BR	Brasilia	3	1	3	1	2
BY	Belarus	2	4	1	1	6
CA	Canada	13	12	12	6	15
CH	Switzerland	156	162	153	117	117
CN	China	21	27	20	15	26
CZ	Czech Republic	4	12	10	13	8
DE	Germany	239	239	171	190	130
DK	Denmark	23	28	13	21	21
ES	Spain	24	26	15	13	11
FI	Finland	20	14	15	6	5
FR	France	94	114	83	81	55
GB	United Kingdom	43	58	50	50	46
HU	Hungary	10	6	6	7	3
IE	Ireland	10	8	14	13	7
IL	Israel	5	9	8	18	8
IN	India	10	15	9	9	7
IT	Italy	41	58	44	37	27
JP	Japan	81	67	73	37	38
KR	Republic of Korea	13	12	11	24	8
LU	Luxemburg	16	18	19	32	56
LV	Latvia	1	2	5	1	3
MT	Malta	2	3	2	2	6
NL	Netherlands	48	33	46	38	33
NO	Norway	11	4	9	5	5
PL	Poland	14	20	20	16	10
PT	Portugal	1	4	1	4	3
RU	Russian Federation	50	56	27	27	18
SE	Sweden	26	26	25	24	14
SG	Singapore	5	10	1	–	3
SK	Slovakia	1	2	1	–	5
TR	Turkey	3	3	2	10	1
US	USA	368	354	407	377	240
ZA	South Africa	6	6	4	–	–
	Others	24	26	24	18	7
	<b>Total</b>	<b>3,014</b>	<b>2,813</b>	<b>2,590</b>	<b>2,469</b>	<b>2,255</b>

## 1.5. Patents for inventions by technology fields, 2015-2019

Technology field	Resident grants					Non-resident grants				
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<b>Electrical engineering</b>										
Electrical machinery, apparatus, energy	42	64	56	51	41	25	46	19	28	30
Audio-visual technology	3	3	8	5	6	18	24	33	14	3
Telecommunications	11	12	9	7	15	6	5	2	2	1
Digital communication	5	5	0	4	8	22	14	17	14	2
Basic communication processes	8	5	9	17	8	5	7	4		1
Computer technology	32	19	29	33	35	10	16	10	17	6
IT methods for management	1	1	2	1	2	1	5	4	1	3
Semiconductors	9	7	9	4	8	–	3	1	3	–
<b>Instruments</b>										
Optics	6	9	8	9	10	3	3	3	2	3
Measurement	120	105	82	89	76	15	26	17	17	10
Analysis of biological materials	29	34	30	31	36	6	5	4	6	4
Control	20	30	20	22	21	7	6	4	8	5
Medical technology	132	97	91	100	92	27	33	18	24	16
<b>Chemistry</b>										
Organic fine chemistry	40	34	28	29	44	180	176	140	144	110
Biotechnology	25	26	15	16	26	65	77	90	108	85
Pharmaceuticals	89	96	68	77	90	311	284	277	243	178
Macromolecular chemistry, polymers	12	11	10	11	9	15	20	17	13	19
Food chemistry	127	86	91	86	87	59	57	43	37	21
Basic materials chemistry	39	40	42	46	23	150	143	141	131	86
Materials, metallurgy	103	75	81	51	66	77	93	76	53	66
Surface technology, coating	49	36	28	21	30	26	32	30	27	21
Micro-structural and nano-technology	6	6	4	8	5	1	2	1	1	0
Chemical engineering	86	77	60	66	76	59	53	52	28	28
Environmental technology	27	32	29	30	27	27	20	14	12	10
<b>Mechanical engineering</b>										
Handling	23	22	25	26	30	61	43	53	39	27
Machine tools	49	35	42	62	51	25	28	17	20	18
Engines, pumps, turbines	43	53	62	32	50	22	25	15	19	18
Textile and paper machines	9	9	8	5	9	18	15	18	8	12
Other special machines	127	82	86	102	82	64	58	62	56	49
Thermal processes and apparatus	47	39	37	28	27	28	30	25	20	25
Mechanical elements	38	32	34	31	32	20	26	18	17	18
Transport	63	37	38	35	47	22	30	17	27	21
<b>Other fields</b>										
Furniture, games	6	3	13	6	10	21	8	6	9	8
Other consumer goods	10	4	10	4	11	45	76	67	70	66
Civil engineering	80	51	60	58	54	57	47	51	47	35
Others and not classified	–	–	–	–	4	–	–	–	1	2
<b>Total</b>	<b>1,516</b>	<b>1,277</b>	<b>1,224</b>	<b>1,203</b>	<b>1,248</b>	<b>1,498</b>	<b>1,536</b>	<b>1,366</b>	<b>1,266</b>	<b>1,007</b>



## 1.6. Applications and patents for utility models by origin, 2015-2019

Code	Country	Applications					Patents				
		2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<b>UA</b>	<b><i>Ukraine</i></b>	<b>8,490</b>	<b>9,473</b>	<b>8,979</b>	<b>8,982</b>	<b>8,351</b>	<b>8,035</b>	<b>8,931</b>	<b>9,365</b>	<b>8,471</b>	<b>8,288</b>
AE	United Arab Emirates	–	–	–	2	–	–	–	–	–	2
AZ	Azerbaijan	1	–	–	–	1	1	–	–	–	–
BG	Bulgaria	1	3	1	3	–	–	1	3	–	2
BY	Belarus	11	14	13	8	12	12	13	10	6	13
CA	Canada	1	–	2	–	–	1	–	–	–	2
CH	Switzerland	8	2	–	2	3	4	4	1	–	1
CN	China	2	1	1	2	2	–	2	2	1	2
CY	Cyprus	21	7	28	56	17	11	19	4	51	39
CZ	Czech Republic	6	–	2	3	1	4	5	1	–	5
DE	Germany	3	3	7	5	1	7	3	2	3	2
EE	Estonia	1	7	1	2	2	–	2	4	2	–
ES	Spain	1	1	–	1	–	–	1	1	–	1
FI	Finland	–	–	1	1	1	–	1	1	–	2
GB	United Kingdom	8	6	5	2	13	6	3	2	6	–
HK	Hong Kong	–	–	–	–	5	–	–	–	–	–
IL	Israel	–	1	–	4	3	–	–	1	4	3
IT	Italy	–	–	2	1	–	2	–	–	2	1
KZ	Kazakhstan	4	–	1	2	1	1	1	–	2	1
LB	Lebanon	–	–	–	1	–	–	–	–	–	1
LU	Luxembourg	–	–	–	1	–	–	–	1	–	1
LV	Latvia	1	–	1	6	6	–	2	–	1	10
LY	Libya	–	–	–	–	1	–	–	–	–	–
MD	Moldova	–	–	–	1	–	–	–	–	–	1
MU	Mauritius	–	–	–	–	1	–	–	–	–	–
PL	Poland	2	–	6	3	3	1	2	1	7	2
RU	Russian Federation	40	26	41	21	13	47	34	29	38	18
SK	Slovakia	2	2	4	–	14	1	1	3	2	10
TR	Turkey	8	2	3	1	–	3	3	1	6	–
US	USA	3	2	12	5	2	4	2	8	8	1
VG	Virgin Islands (Brit.)	1	–	3	–	5	1	1	–	4	4
	Others	5	9	4	5	–	12	13	2	6	–
<b>Total</b>		<b>8,620</b>	<b>9,559</b>	<b>9,117</b>	<b>9,120</b>	<b>8,458</b>	<b>8,153</b>	<b>9,044</b>	<b>9,442</b>	<b>8,620</b>	<b>8,412</b>

## 1.7. Applications and patents for utility models by technology fields, 2015-2019

Technology field	Applications					Patents				
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<b>Electrical engineering</b>										
Electrical machinery, apparatus, energy	209	232	256	261	227	223	214	249	253	256
Audio-visual technology	57	48	28	53	36	67	45	25	44	43
Telecommunications	53	53	66	76	65	47	63	63	60	65
Digital communication	17	22	22	19	14	14	19	24	16	17
Basic communication processes	135	118	152	149	69	134	82	178	173	81
Computer technology	114	107	138	126	137	108	100	126	118	115
IT methods for management	23	22	20	35	43	17	19	12	21	26
Semiconductors	57	55	55	54	52	53	57	62	43	67
<b>Instruments</b>										
Optics	31	53	30	36	31	43	47	44	31	34
Measurement	555	598	620	617	539	579	547	664	605	573
Analysis of biological materials	469	1367	918	914	839	362	1328	991	973	872
Control	162	189	190	214	214	147	168	203	185	199
Medical technology	1,088	1,052	969	990	829	1,328	1,033	1,138	856	946
<b>Chemistry</b>										
Organic fine chemistry	81	105	95	115	91	87	99	114	126	97
Biotechnology	99	72	102	105	71	93	79	104	92	95
Pharmaceuticals	527	578	549	548	515	509	545	638	520	526
Macromolecular chemistry, polymers	45	38	32	41	35	40	34	45	37	39
Food chemistry	555	495	556	603	487	486	516	562	530	566
Basic materials chemistry	279	250	182	200	181	216	258	211	190	191
Materials, metallurgy	284	226	271	250	194	274	252	251	248	242
Surface technology, coating	80	112	77	88	81	69	94	96	83	87
Micro-structural and nano-technology	21	26	30	28	24	19	15	32	30	26
Chemical engineering	361	335	322	336	306	320	372	304	338	334
Environmental technology	164	160	163	187	166	164	155	181	154	184
<b>Mechanical engineering</b>										
Handling	225	216	259	188	164	192	235	234	210	194
Machine tools	392	395	346	344	250	334	385	398	307	323
Engines, pumps, turbines	187	161	166	155	173	183	175	188	157	183
Textile and paper machines	104	91	74	75	68	111	93	91	47	86
Other special machines	649	657	731	768	548	605	673	708	777	654
Thermal processes and apparatus	190	214	186	193	135	217	213	225	187	149
Mechanical elements	220	237	221	217	152	247	187	257	214	175
Transport	281	305	353	330	262	282	284	326	344	316
<b>Other fields</b>										
Furniture, games	80	94	109	98	101	85	92	111	88	100
Other consumer goods	110	121	98	102	105	104	124	113	95	102
Civil engineering	415	443	486	489	349	394	442	474	459	424
Others and not classified	301	312	245	116	905	–	–	–	9	25
<b>Total</b>	<b>8,620</b>	<b>9,559</b>	<b>9,117</b>	<b>9,120</b>	<b>8,458</b>	<b>8,153</b>	<b>9,044</b>	<b>9,442</b>	<b>8,620</b>	<b>8,412</b>

## 1.8. Applications for utility models by regions of Ukraine, 2015-2019

Region	2015	2016	2017	2018	2019
The Autonomous Republic of Crimea	6	6	22	8	7
Vinnytsia	577	1,288	899	844	837
Volyn	67	84	63	63	57
Dnipropetrovsk	660	598	724	694	677
Donetsk	249	242	267	248	260
Zhytomyr	32	47	39	62	79
Zakarpattia	89	63	84	83	85
Zaporizhia	312	317	313	468	314
Ivano-Frankivsk	134	125	109	116	131
Kyiv Regions	186	163	151	173	169
Kirovohrad	54	68	84	67	63
Luhansk	165	142	191	127	111
Lviv	397	404	378	351	341
Mykolaiv	112	97	108	147	147
Odesa	354	344	404	358	334
Poltava	254	276	252	283	220
Rivne	130	161	126	108	102
Sumy	105	124	155	97	119
Ternopil	215	333	279	293	343
Kharkiv	1,241	1,300	1,281	1,248	1,263
Kherson	100	112	113	90	118
Khmelnyskyi	77	120	79	106	84
Cherkasy	93	123	118	111	134
Chernivtsi	141	224	212	175	196
Chernihiv	25	41	41	42	48
Kyiv	2,711	2,667	2,478	2,613	2,104
Sevastopol	3	3	4	2	2
Not classified	1	1	5	5	7
<b>Total</b>	<b>8,490</b>	<b>9,473</b>	<b>8,979</b>	<b>8,982</b>	<b>8,351</b>

## 1.9. Applications and patents for industrial designs by origin, 2015-2019

Code	Country	Applications					Patents				
		2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<b>UA</b>	<b>Ukraine</b>	<b>1,811</b>	<b>2,016</b>	<b>2,249</b>	<b>2,787</b>	<b>2,455</b>	<b>1,957</b>	<b>2,134</b>	<b>2,113</b>	<b>2,077</b>	<b>2,396</b>
AT	Austria	–	1	2	7	1	1	–	1	4	5
AU	Australia	1	1	–	5	–	–	2	–	4	1
BG	Bulgaria	–	–	–	–	2	–	–	–	–	–
BY	Belarus	5	5	10	4	10	9	2	7	2	8
BZ	Belize	–	–	–	1	2	179	–	–	–	3
CA	Canada	–	1	–	6	2	7	–	1	–	6
CH	Switzerland	3	6	7	2	–	3	5	8	2	1
CN	China	10	4	6	5	30	10	11	8	–	9
CY	Cyprus	34	10	20	18	13	81	19	11	17	15
DE	Germany	4	5	49	3	3	27	6	12	41	–
ES	Spain	–	–	2	3	–	3	–	–	2	3
FI	Finland	7	2	4	5	3	–	8	5	1	2
FR	France	5	13	11	16	5	4	12	11	21	1
GB	United Kingdom	7	4	9	15	31	10	7	7	8	11
GE	Georgia	1	–	6	1	1	–	–	2	–	2
IL	Israel	2	–	–	–	8	5	3	–	–	–
IN	India	4	–	1	1	9	4	6	–	1	3
IT	Italy	7	4	4	5	3	2	5	3	5	4
JP	Japan	23	9	12	21	3	16	33	14	15	10
KR	Republic of Korea	–	2	–	17	–	4	2	–	5	12
LI	Liechtenstein	–	–	–	–	1	1	–	–	–	1
LT	Lithuania	1	–	–	–	6	1	–	–	–	–
NL	Netherlands	6	2	–	–	3	19	7	1	–	3
PL	Poland	12	8	8	6	6	5	7	11	1	5
RU	Russian Federation	67	105	43	62	35	121	83	82	56	57
SC	Seychelles Islands	1	–	–	–	1	–	–	–	–	1
SE	Sweden	2	65	–	3	9	2	14	53	1	6
TR	Turkey	3	1	1	1	–	4	3	2	–	1
US	USA	45	9	20	26	35	30	64	13	20	26
VG	Virgin Islands (British)	3	–	–	–	1	–	3	–	–	1
VN	Vietnam	–	–	–	5	–	–	–	–	2	3
	Others	16	29	16	17	0	16	33	25	12	3
<b>Total</b>		<b>2,080</b>	<b>2,302</b>	<b>2,480</b>	<b>3,042</b>	<b>2,678</b>	<b>2,521</b>	<b>2,469</b>	<b>2,390</b>	<b>2,297</b>	<b>2,599</b>



### 1.10. Patents for industrial designs by classes of the LCL, 2019

Ranking	Class	Class heading	Patents	
			qty	%
1	9	Packages and containers for the transport or handling of goods	383	14.7
2	19	Stationery and office equipment, artists' and teaching materials	341	13.1
3	8	Tools and hardware	312	12.0
4	32	Graphic symbols and logos, surface patterns, ornamentation	267	10.3
5	7	Household goods, not elsewhere specified	141	5.4
6	15	Machines, not elsewhere specified	136	5.2
7	12	Means of transport or hoisting	105	4.1
8	2	Articles of clothing and haberdashery	101	3.9
9	11	Articles of adornment	89	3.4
10	13	Equipment for production, distribution or transformation of electricity	73	2.8
11	23	Fluid distribution equipment, sanitary, heating, ventilation and air-conditioning equipment, solid fuel	69	2.7
12	6	Furnishing	56	2.2
13	25	Building units and construction elements	55	2.1
14	21	Games, toys, tents and sports goods	47	1.8
15	3	Travel goods, cases, parasols and personal belongings, not elsewhere specified	45	1.7
16	5	Textile piecegoods, artificial and natural sheet material	45	1.7
17	1	Foodstuffs	44	1.7
18	31	Machines and appliances for preparing food or drink, not elsewhere specified	44	1.7
19	27	Tobacco and smokers' supplies	40	1.6
20	10	Clocks and watches and other measuring instruments, checking and signalling instruments	37	1.4
21	28	Pharmaceutical and cosmetic products, toilet articles and apparatus	33	1.3
22	26	Lighting apparatus	29	1.1
23	24	Medical and laboratory equipment	25	1.0
24	20	Sales and advertising equipment, signs	24	0.9
25	14	Recording, communication or information retrieval equipment	22	0.9
26	22	Arms, pyrotechnic articles, articles for hunting, fishing and pest killing	19	0.7
27	30	Articles for the care and handling of animals	7	0.3
28	29	Devices and equipment against fire hazards, for accident prevention and for rescue	6	0.2
29	4	Brushware	3	0.1
30	16	Photographic, cinematographic and optical apparatus	1	0.0

### 1.11. International registrations under the Hague Agreement by origin, 2015-2019

Code	Country	2015	2016	2017	2018	2019
AT	Austria	3	10	8	4	4
BA	Bosnia and Herzegovina	1	1	–	2	4
BE	Belgium	11	8	5	11	1
BG	Bulgaria	9	9	3	8	3
CH	Switzerland	246	187	157	151	138
CY	Cyprus	–	6	13	4	20
CN	China	1	–	–	13	14
CZ	Czech Republic	4	12	14	13	8
DE	Germany	90	55	45	45	45
DK	Denmark	1	5	2	3	4
ES	Spain	9	4	6	5	13
FI	Finland	2	5	5	4	1
FR	France	89	145	119	75	103
GB	United Kingdom	3	8	5	16	11
GR	Greece	–	2	3	–	2
HR	Croatia	3	10	8	6	3
HU	Hungary	1	–	1	–	2
IT	Italy	41	37	35	36	50
JP	Japan	4	5	5	1	6
KR	Republic of Korea	–	2	7	2	4
LV	Latvia	–	2	–	1	2
NL	Netherlands	37	19	11	12	19
NO	Norway	4	1	1	2	2
PL	Poland	7	6	18	16	17
RS	Serbia	1	–	–	1	4
SE	Sweden	2	5	44	18	16
SI	Slovenia	7	2	6	1	1
TR	Turkey	16	20	10	13	7
UA	Ukraine	2	4	2	4	12
US	USA	10	20	15	25	25
	Others	18	33	17	14	16
<b>Total</b>		<b>622</b>	<b>623</b>	<b>565</b>	<b>506</b>	<b>557</b>

## 1.12. Trademark applications and registrations under the national procedure, 2015-2019

Code	Country	Applications					Registrations				
		2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
<b>UA</b>	<b>Ukraine</b>	<b>21,245</b>	<b>26,064</b>	<b>26,275</b>	<b>27,328</b>	<b>29,828</b>	<b>9,539</b>	<b>11,007</b>	<b>12,986</b>	<b>13,553</b>	<b>14,788</b>
AE	United Arab Emirates	21	33	46	40	36	3	19	24	21	27
AM	Armenia	1	7	14	8	7	3	3	3	3	15
AR	Argentina	8	2	1	3	1	3	4	4	3	1
AT	Austria	78	57	67	41	24	34	61	40	60	43
AU	Australia	2	–	5	3	2	3	9	2	1	1
BA	Bosnia and Herzegovina	6	14	–	10	5	1	12	6	2	–
BE	Belgium	42	13	15	19	2	5	34	20	4	17
BG	Bulgaria	10	5	4	12	11	9	26	9	1	17
BM	Bermuda	5	6	–	–	7	2	6	1	6	2
BR	Brasilia	8	7	6	10	9	7	11	2	7	–
BY	Belarus	30	17	24	30	22	24	29	9	17	9
BZ	Belize	9	21	35	16	9	8	8	7	10	6
CA	Canada	24	21	27	51	21	29	27	14	9	23
CH	Switzerland	297	397	256	263	409	179	189	232	210	201
CL	Chile	–	2	1	3	5	3	2	–	2	1
CN	China	73	125	178	226	284	62	44	44	66	126
CO	Colombia	2	3	2	3	2	–	2	1	2	1
CW	Curacao	12	1	2	2	4	7	8	1	2	3
CY	Cyprus	487	434	644	524	448	373	418	309	288	347
CZ	Czech Republic	27	16	15	11	18	16	9	22	10	14
DE	Germany	95	118	147	134	100	98	71	82	95	110
DK	Denmark	18	11	16	17	17	15	4	12	11	11
EE	Estonia	15	72	36	59	30	9	12	8	63	21
EG	Egypt	2	6	–	2	3	0	6	–	1	–
ES	Spain	7	46	61	38	62	32	8	3	24	18
FI	Finland	11	1	9	4	17	14	6	5	5	6
FR	France	79	76	66	100	68	63	69	49	51	49
GB	United Kingdom	191	211	232	225	232	197	117	164	154	138
GE	Georgia	22	21	15	13	21	21	9	10	8	12
GR	Greece	3	4	5	4	7	2	2	4	–	3
HK	Hong Kong	44	46	45	36	26	44	24	33	15	22
HR	Croatia	8	2	4	4	6	30	5	4	–	4
HU	Hungary	10	3	18	16	12	13	7	3	12	4
IE	Ireland	18	48	21	24	19	22	14	23	15	15
IL	Israel	26	12	23	30	46	14	37	8	7	31
IM	Isle of Man	5	5	64	16	6	2	–	19	5	6
IN	India	230	223	178	122	199	124	125	92	110	118
IT	Italy	16	32	34	25	62	27	5	13	29	23
JO	Jordan	1	3	4	5	3	1	1	0	3	4
JP	Japan	100	69	89	81	94	96	92	95	49	58
KN	Saint Kitts and Nevis	–	–	2	1	4	–	1	–	–	2

**1.12. continued**

Code	Country	Applications					Registrations				
		2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
KR	Republic of Korea	57	104	74	87	105	96	56	38	32	69
KY	Cayman Islands	29	28	30	15	9	5	9	15	16	24
KZ	Kazakhstan	3	2	10	4	9	1	–	2	2	6
LB	Lebanon	–	1	–	–	14	1	–	–	1	–
LI	Liechtenstein	16	28	23	20	16	27	4	6	11	12
LK	Sri Lanka	1	4	16	5	–	5	1	2	3	8
LT	Lithuania	19	19	20	36	52	9	14	8	5	14
LU	Luxemburg	9	8	10	15	35	7	14	9	4	18
LV	Latvia	7	8	12	16	32	3	5	10	13	2
MD	Republic of Moldova	2	5	6	10	8	8	1	2	2	2
MK	North Macedonia	2	3	2	4	5	3	–	1	2	5
MT	Malta	19	8	7	1	17	–	–	1	3	–
MX	Mexico	13	6	8	7	8	6	3	10	3	7
NL	Netherlands	71	84	76	49	43	51	58	47	42	47
NZ	New Zealand	–	–	1	5	5	–	–	1	1	–
NO	Norway	–	1	–	1	1	5	1	1	–	–
PA	Panama	10	10	5	3	1	14	12	5	2	–
PL	Poland	59	54	64	76	98	44	41	49	40	40
PT	Portugal	6	4	–	1	3	2	6	4	2	–
RO	Romania	8	6	–	2	11	–	–	4	2	–
RU	Russian Federation	127	147	147	138	85	202	108	99	97	93
SC	Seychelles	3	4	2	9	16	26	3	5	–	7
SE	Sweden	12	24	19	16	26	16	13	6	29	8
SG	Singapore	17	30	51	11	27	14	13	14	32	23
SK	Slovakia	4	16	14	10	9	2	7	5	16	9
TH	Thailand	9	10	12	7	18	7	13	2	8	9
TR	Turkey	23	49	62	27	34	35	18	18	28	35
TW	Taiwan	21	15	24	20	26	28	20	12	14	11
US	USA	737	560	689	640	778	527	590	465	454	517
UZ	Uzbekistan	2	–	4	1	4	1	–	2	2	–
VG	Virgin Islands	31	56	55	31	6	52	35	17	40	28
VN	Vietnam	–	–	–	5	4	1	–	–	–	–
	Others	47	52	54	69	43	56	30	25	37	31
<b>Total</b>		<b>24,652</b>	<b>29,600</b>	<b>30,183</b>	<b>30,900</b>	<b>33,736</b>	<b>12,388</b>	<b>13,618</b>	<b>15,248</b>	<b>15,877</b>	<b>17,322</b>



### 1.13. NCL classes specified in trademark applications, 2019

Class index	Class heading	Total number	Resident applications	Non-resident applications
35	Advertising; business management; business administration; office functions	13,149 (21.3%)	12,387 (22.8%)	762 (10.1%)
41	Education; providing of training; entertainment; sporting and cultural activities	4,963 (8.0%)	4,639 (8.5%)	324 (4.3%)
5	Pharmaceuticals, medical and veterinary preparations; sanitary preparations for medical purposes; dietetic food and substances ...	3,096 (5.0%)	2,077 (3.8%)	1,019 (13.5%)
30	Coffee, tea, cocoa and artificial coffee; rice, pasta and noodles; tapioca and sago; flour and preparations made from cereals ...	2,840 (4.6%)	2,524 (4.6%)	316 (4.2%)
43	Services for providing food and drink; temporary accommodation	2,537 (4.1%)	2,408 (4.4%)	129 (1.7%)
42	Scientific and technological services and research and design relating thereto; industrial analysis and industrial research services ...	2,374 (3.8%)	2,096 (3.9%)	278 (3.7%)
9	Scientific, research, navigation, surveying, photographic, cinematographic, audiovisual, optical, weighing, measuring, signalling, detecting, testing, inspecting, life-saving and teaching apparatus and instruments ...	2,301 (3.7%)	1,755 (3.2%)	546 (7.2%)
25	Clothing, footwear, headwear	2,296 (3.7%)	2,105 (3.9%)	191 (2.5%)
29	Meat, fish, poultry and game; meat extracts; preserved, frozen, dried and cooked fruits and vegetables; jellies, jams, compotes; eggs ...	1,904 (3.1%)	1,725 (3.2%)	179 (2.4%)
36	Insurance; financial affairs; monetary affairs; real estate affairs	1,749 (2.8%)	1,579 (2.9%)	170 (2.3%)
44	Medical services; veterinary services; hygienic and beauty care for human beings or animals; agriculture, horticulture and forestry services	1,674 (2.7%)	1,573 (2.9%)	101 (1.3%)
16	Paper and cardboard; printed matter; bookbinding material; photographs; stationery and office requisites, except furniture ...	1,646 (2.7%)	1,469 (2.7%)	177 (2.3%)
37	Building construction; repair; installation services	1,585 (2.6%)	1,497 (2.8%)	88 (1.2%)
3	Non-medicated cosmetics and toiletry preparations; non-medicated dentifrices; perfumery, essential oils ...	1,565 (2.5%)	1,149 (2.1%)	416 (5.5%)
33	Alcoholic beverages, except beers; alcoholic preparations for making beverages	1,366 (2.2%)	1,159 (2.1%)	207 (2.8%)
32	Beers; non-alcoholic beverages; mineral and aerated waters; fruit beverages and fruit juices; syrups and other non-alcoholic preparations for making beverages	1,292 (2.1%)	1,115 (2.1%)	177 (2.4%)
38	Telecommunications	1,286 (2.1%)	1,124 (2.1%)	162 (2.1%)
39	Transport; packaging and storage of goods; travel arrangement	1,189 (1.9%)	1,090 (2.0%)	99 (1.3%)
45	Legal services; security services for the physical protection of tangible property and individuals; personal and social services ...	1,130 (1.8%)	1,071 (2.0%)	59 (0.8%)
11	Apparatus and installations for lighting, heating, cooling, steam generating, cooking, drying, ventilating, water supply and sanitary purposes	864 (1.4%)	761 (1.4%)	103 (1.4%)

**1.13. continued**

<b>Class index</b>	<b>Class heading</b>	<b>Total number</b>	<b>Resident applications</b>	<b>Non-resident applications</b>
31	Raw and unprocessed agricultural, aquacultural, horticultural and forestry products; raw and unprocessed grains and seeds ...	823 (1.3%)	701 (1.3%)	122 (1.6%)
28	Games, toys and playthings; video game apparatus; gymnastic and sporting articles; decorations for Christmas trees	798 (1.3%)	657 (1.2%)	141 (1.9%)
1	Chemicals for use in industry, science and photography, as well as in agriculture, horticulture and forestry ...	742 (1.2%)	604 (1.1%)	138 (1.8%)

#### 1.14. Trademark applications under the Madrid System by origin, 2015-2019

Code	Country	2015	2016	2017	2018	2019
<b>UA</b>	<b>Ukraine</b>	<b>5</b>	<b>2</b>	<b>6</b>	<b>1</b>	<b>–</b>
AE	United Arab Emirates	4	6	10	13	8
AL	Albania	2	2	1	–	1
AM	Armenia	7	13	15	20	10
AT	Austria	146	123	138	138	132
AU	Australia	41	35	58	50	61
AZ	Azerbaijan	3	2	3	5	2
BA	Bosnia and Herzegovina	–	2	–	3	1
BE	Belgium	144	98	133	99	76
BG	Bulgaria	62	32	121	85	111
BY	Belarus	105	62	106	88	142
BZ	Belize	9	2	4	10	2
CA	Canada	5	5	1	6	10
CH	Switzerland	618	415	502	466	498
CN	China	513	561	890	1,183	1,367
CU	Cuba	–	–	1	3	4
CW	Curacao	5	3	11	5	1
CY	Cyprus	84	60	66	54	51
CZ	Czech Republic	90	84	60	67	114
DE	Germany	1,224	963	964	1,097	1,031
DK	Denmark	69	60	61	52	84
EE	Estonia	15	7	16	28	28
EG	Egypt	4	3	9	3	3
ES	Spain	156	146	166	164	189
FI	Finland	51	58	96	88	50
FR	France	583	544	654	649	672
GB	United Kingdom	310	150	175	201	243
GE	Georgia	23	12	20	12	14
GR	Greece	10	14	15	19	13
HR	Croatia	12	6	12	11	6
HU	Hungary	239	42	63	148	139
IE	Ireland	42	33	36	13	24
IL	Israel	25	21	29	37	33
IN	India	28	23	31	24	21
IR	Iran (Islamic Republic of)	12	6	9	6	8
IS	Iceland	8	1	1	–	6
IT	Italy	509	405	513	521	529
JP	Japan	175	118	181	132	170
KG	Kyrgyzstan	1	–	2	1	10
KR	Republic of Korea	66	89	94	107	137
KY	Cayman Islands	3	1	6	3	7
KZ	Kazakhstan	15	18	15	22	38

**1.14. continued**

Code	Country	2015	2016	2017	2018	2019
LI	Liechtenstein	24	13	39	24	31
LT	Lithuania	19	14	25	32	38
LU	Luxembourg	87	89	77	50	46
LV	Latvia	34	24	38	32	68
MA	Morocco	7	2	3	5	4
MC	Monaco	8	7	7	14	13
MD	Moldova	38	35	28	17	37
ME	Montenegro	5	1	–	8	1
MT	Malta	13	20	29	5	7
MX	Mexico	7	–	8	1	2
NL	Netherlands	179	133	128	116	126
NO	Norway	21	13	27	18	18
NZ	New Zealand	9	10	7	2	3
PL	Poland	171	110	189	165	241
PT	Portugal	23	37	28	19	24
RO	Romania	20	20	16	19	28
RS	Serbia	14	24	30	23	22
RU	Russian Federation	529	302	523	555	513
SE	Sweden	76	56	60	59	65
SG	Singapore	19	20	45	25	40
SI	Slovenia	51	33	61	38	40
SK	Slovakia	51	31	25	20	20
TR	Turkey	362	227	309	233	269
US	USA	725	510	578	584	688
UZ	Uzbekistan	1	2	7	8	2
VG	Virgin Islands (British)	25	15	8	7	14
VN	Vietnam	4	5	18	12	21
	Others	24	25	27	27	31
<b>Total</b>		<b>7,969</b>	<b>6,005</b>	<b>7,634</b>	<b>7,752</b>	<b>8,458</b>

## 2. Expenses for the functioning and development of the state system of intellectual property rights protection in 2019

Expense items	Amount, Thousands UAH
Organization expenses, expenses associated with examination and grant of titles of protection for industrial property rights	291,312.2
Expenses for information activities in the sphere of intellectual property rights protection	5,132.5
Expenses for editorial and publishing activities	355.3
Expenses for development of international cooperation in the sphere of intellectual property rights protection, for organization and participation in exhibitions, competitions and seminars etc.	11,277.2
Expenses for organization of employee training and skill upgrading in the field of intellectual property rights protection	445.0
Acquisition of licensed software and maintenance of automated systems	9,125.9
<b>Total</b>	<b>317,648.1</b>

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