



UKRAINE



ANNUAL REPORT

UKRAINIAN
INTELLECTUAL
PROPERTY
INSTITUTE
(UKRPATENT)

2018



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Dear colleagues!

A full-fledged system of the intellectual property legal protection is one of the determinative components of innovative development of Ukraine and an effective tool for increasing competitiveness of the national economy based on its intellectual resource.

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

For Ukrpatent, the year 2018 became a year of active participation in promoting innovative processes domestically and abroad. Functioning as the International Searching Authority and the International Preliminary Examining Authority, improving efficiency and quality of the examination of applications for intellectual property rights, continuing productive cooperation with international partners: the World Intellectual Property Organization, the European Patent Office, the Eurasian Patent Office, participation in the global PCT system were the key areas of activity.

Meetings with the heads of the leading international intellectual property (IP) organizations that took place during the year, in particular with Francis Gurry, the WIPO Director General, and John Sandage, Deputy Director General of WIPO, Patents and Technology Sector, showed the full support for the Ukrainian examination body initiatives. International partners noted the progress of Ukraine, which now ranks No. 39 in the world, demonstrating a 30-percent increase in the number of international applications over the past 10 years, and expressed confidence that Ukraine will continue to improve the achieved results.

A significant factor in perception of the Ukrainian producers and brands in the world is a dialogue of Ukrpatent with representatives of the European Union in the field of geographical indications. Within the meetings of the Ukrpatent specialists with the experts of the EU Project "Support to the Development of a Geographical Indications System in Ukraine", the further ways

of the national system development of the geographical indications registration were outlined, and the following actions on technical assistance and further cooperation in this direction were agreed.

In 2018, the Ukrpatent specialists held meetings with representatives of the patent offices of China and Egypt within their official visits to Ukraine; participated in the discussion of topical issues with representatives of partner countries patent offices at the Fifty-Eighth Series of Meetings of the Assemblies of the Member States of WIPO; took part in a number of international specialized IP events. Over the year Ukrpatent hosted professional seminars of Ukrpatent examiners with patent attorneys from the USA, Georgia, the EU and Ukraine.

Experience sharing in the professional community is an important element of the national IP sphere development. In 2018, Ukrpatent held a conference devoted to the most challenging issues of industrial property rights acquisition and their commercialization. The event has become a place of experience exchange for patent attorneys, lawyers, specialists in the field of IP, representatives of scientific, industrial and business circles. In the reporting year, Ukrpatent, together with the Ministry of Economic Development and Trade of Ukraine and the WIPO, held a five-day English-language National Patent Drafting Workshop.

Strong performance of the Ukrpatent team at the local and international levels is achieved primarily due to its professionalism and coherence. In the past year, Ukrpatent successfully passed the recertification audit of the Quality Management System for compliance with the requirements of the international standard ISO 9001:2015. In the course of the audit a high professional level of Ukrpatent employees was noted. The Ukrainian examination body received a positive assessment regarding performance of measures to implement the requirements of the new edition of the standard.

Ukrpatent continues educational activities and the IP sphere promotion in Ukraine. In 2018, the Museum of Intellectual Property Legal Protection tours were conducted for IP specialists, students, postgraduates, school and college students, participants of the official foreign delegations, patent attorneys from the USA, the PRC, Georgia, Poland, the EU, Ukraine. In the framework of the events dedicated to marking the Ukrainian Inventor and Innovator Day, Ukrpatent awarded holders of the Ukrainian patents for inventions and utility models as well as applicants for international registrations in accordance with the Patent Cooperation Treaty with Certificates of Honor for the significant contribution to the development of inventive activity in Ukraine.

Summing up the achievements of Ukrpatent in 2018, I would like to thank its team for fruitful work, which was aimed at increasing the effectiveness of interaction with national and foreign applicants, strengthening the rightful place of Ukrpatent among the examination bodies and IP offices of the world acting as ISA/IPEA. I wish all the IP sphere representatives in Ukraine and the partners of Ukrpatent a productive 2019. Let all the promising plans and intentions come true!

**Yours sincerely,
Director General**



Andrew Kudin

1 Examination of Applications and Registration of Industrial Property Rights

Ukrpatent performs functions assigned by the Ministry of Economic Development and Trade (MEDT) of Ukraine as authorized state authority, such functions as examination of applications for industrial property rights pro-

tection, preparation of information for the state registration of industrial property rights, and maintenance of state registers, in accordance with the Statute thereof.



In 2018, a total of over 3.9 thousand applications for inventions, 9.1 thousand those for utility models, over 3.0 thousand applications for industrial designs and more than 38.6 thousand appli-

cations for trademarks and service marks (including nearly 30.9 thousand those filed under the national procedure) were filed with Ukrpatent (see table 1.1).

Table 1.1. Applications for Industrial Property Rights Protection*, 2014-2018

Industrial property rights	2014	2015	2016	2017	2018
Inventions	4,814	4,497	4,093	4,049	3,968
Utility models	9,384	8,618	9,559	9,112	9,120
Industrial designs	2,664	2,080	2,302	2,480	3,042
Trademarks and service marks	27,280	32,621	35,605	37,817	38,651
<i>national procedure</i>	18,796	24,652	29,600	30,183	30,899
<i>Madrid system</i>	8,484	7,969	6,005	7,634	7,752
Topographies of integrated circuits	1	—	—	—	—
Qualified indications of the origin of goods	3	3	—	4	3

* Data for the preceding years have been corrected

10,323 applications were filed through the electronic filing system, including 596 applications for inventions (5.8% of all electronic filings),

484 those for utility models and 487 – for industrial designs (4.7%), 8,756 (84.8%) trademark applications (see table 1.2, figure 1.1).

Table 1.2. Filing of Applications through the Electronic Filing System, 2014-2018

Industrial property rights	2014	2015	2016	2017	2018
Total	1,896	2,507	3,668	6,888	10,323
Inventions	161	221	233	337	596
Utility models	115	168	205	337	484
Trademarks and service marks	1,620	2,118	3,230	6,000	8,756
Industrial designs	–	–	–	214	487
Share of the total filings	5.3	6.3	8.1	15.1	22.0

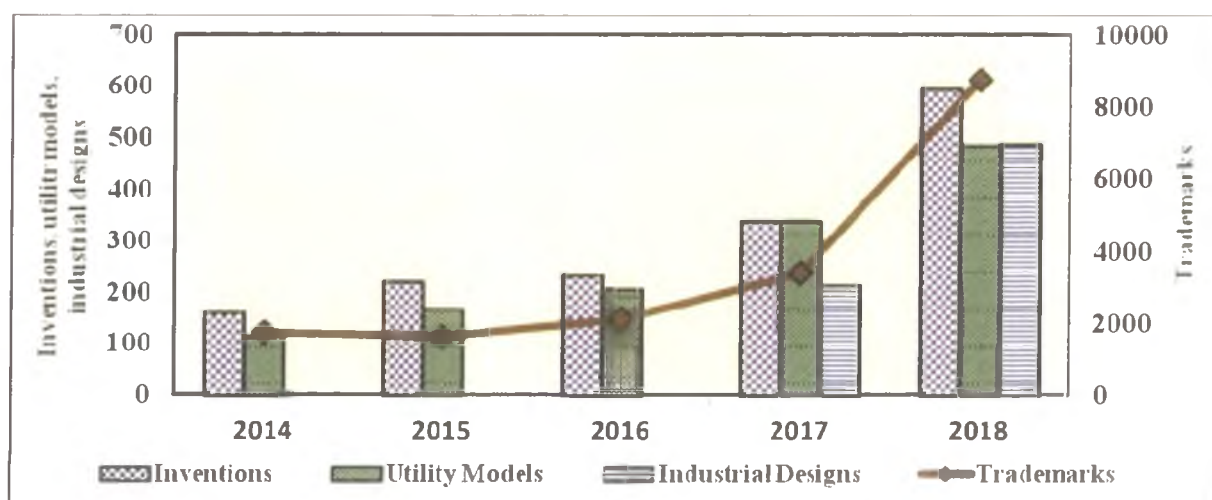


Figure 1.1. Trend in Electronic Filings

1.1. Inventions

In 2018, the number of applications for inventions totaled 3,968 (see table 1.3, figure 1.2). The number of resident filings decreased

by 7.7%, and the number of non-resident filings grew by 5.5% over 2017.

Resident applicants filed 143 applications for patenting inventions under the PCT abroad.

Table 1.3. Applications for Inventions, 2014-2018

	2014	2015	2016	2017	2018
Applications filed	4,814	4,497	4,093	4,049	3,968
Under the national procedure	2,675	2,506	2,422	2,494	2,355
by residents,	2,455	2,271	2,230	2,281	2,105
including legal entities	1,335	1,127	1,206	1,200	1,166
by non-residents	220	235	192	213	250
Under the PCT procedure	2,139	1,991	1,671	1,555	1,613
including resident applications	2	2	1	4	2

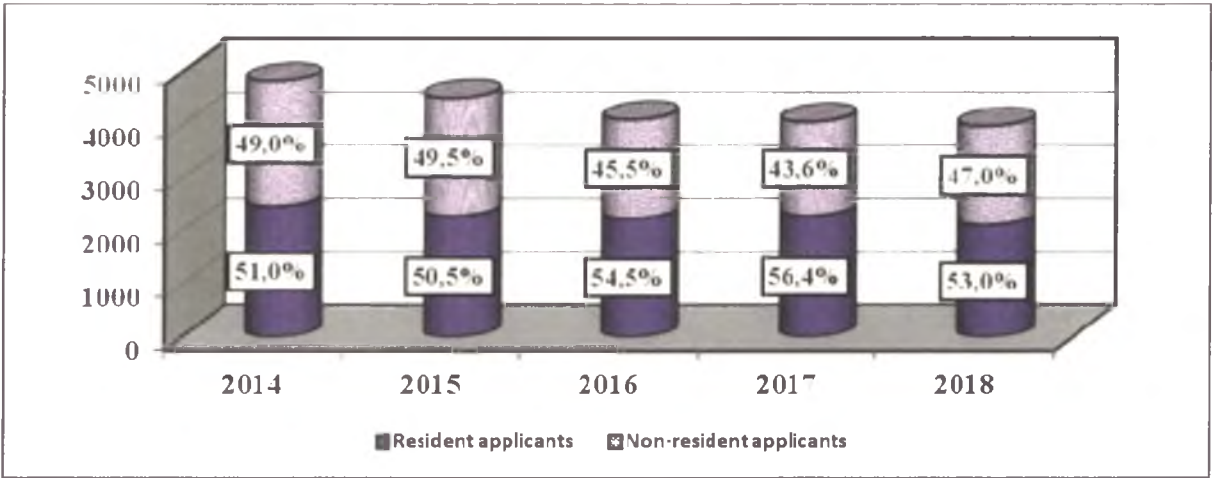


Figure 1.2.Trend in Patent Filings, 2014-2018

Resident applicants filed 2,107 applications for inventions (more than 53% of the total number) in 2018. The largest number of resident filings came from Kyiv City (34.8%),

Kharkiv Region (13.4%), Dnipropetrovsk Region (10.6%), Odessa Region (6.7%), Lviv Region (4.6%) (see figure 1.3).



Figure 1.3. Applications for Inventions by Regions of Ukraine, 2018

The share of non-resident applications amounted to 46.9% of total filings. The share of PCT national phase entries amounted to nearly 87% of total non-resident filings. The largest number of non-resident filings came from the USA (494), Germany (280), Switzerland (220),

the United Kingdom (95), France (69), the Netherlands (66), Luxemburg (61), Italy (52), Japan (51) (see figure 1.4). The share of applications filed by EU applicants amounted to 44.4% of total non-resident filings.

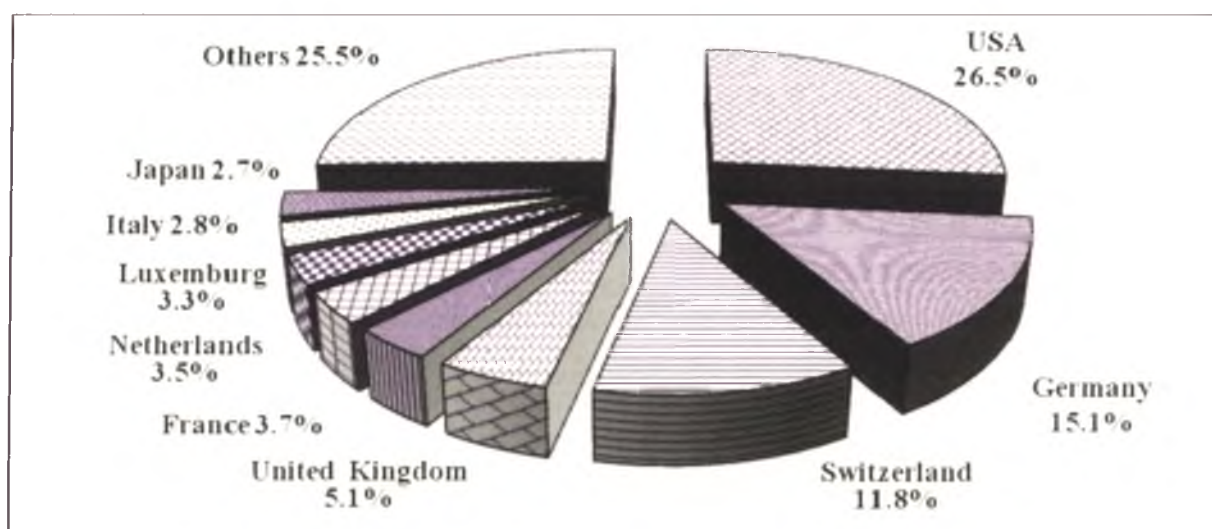


Figure 1.4. Non-resident Applications for Inventions by Origin, 2018

Data on application examining activities are presented in table 1.4

Table 1.4. Results of Patent Application Examining Activities, 2014-2018

	2014	2015	2016	2017	2018
Number of requests for substantive examination	4,651	4,040	3,791	3,889	3,665
Allowed applications	3,455	3,101	2,857	2,744	2,510
Refused applications	45	68	78	61	45
Abandoned applications	854	1,373	1,367	1,192	1,103
Total disposals in the substantive examination procedure	4,354	3,995	3,857	3,582	3,368
Number of pending applications undergoing substantive examination at the end of year	4,398	4,257	4,094	4,185	4,679

In 2018, 2,469 patents for inventions were granted, including 1,203 resident grants (48.7%) (see table 1.5, figure 1.5).

Table 1.5. Grants of Patents for Inventions, 2014-2018

	2014	2015	2016	2017	2018
Patents granted	3,319	3,014	2,813	2,590	2,469
to residents	1,702	1,516	1,277	1,224	1,203
to non-residents	1,617	1,498	1,536	1,366	1,266
Patents in force at the end of 2018	26,183	25,736	24,760	23,705	22,977

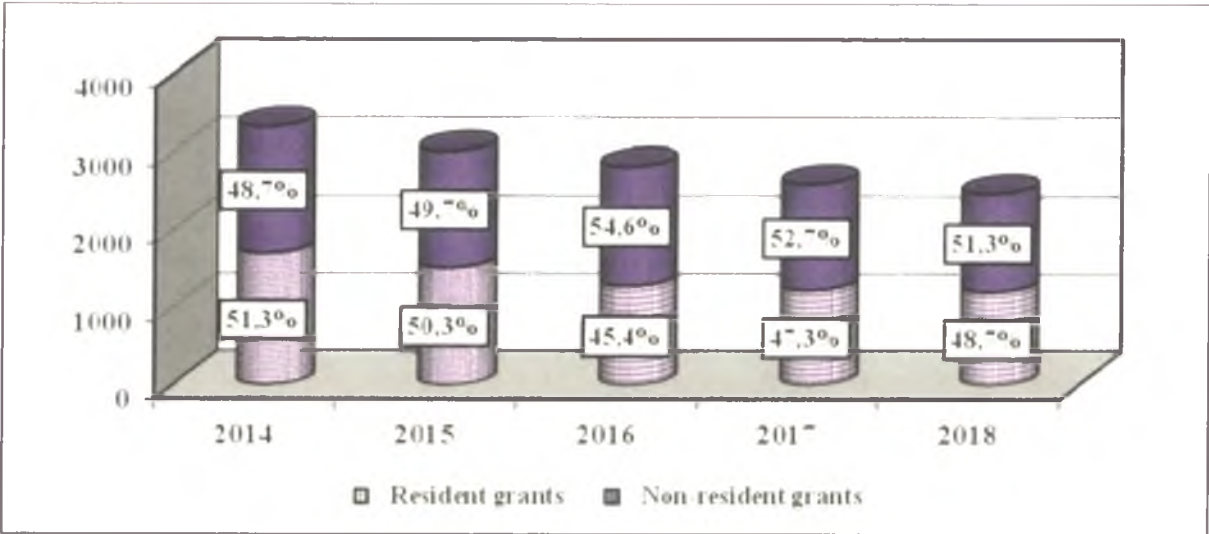


Figure 1.5. Trend in Grants of Patents for Inventions, 2014-2018

As of January 1, 2019 a total of 123,121 patents for inventions were recorded in the State Register of Patents of Ukraine, including 22,977 patents for inventions being in force.

The distribution of patents being in force at the end of 2018 by years of filing is presented in figure 1.6.

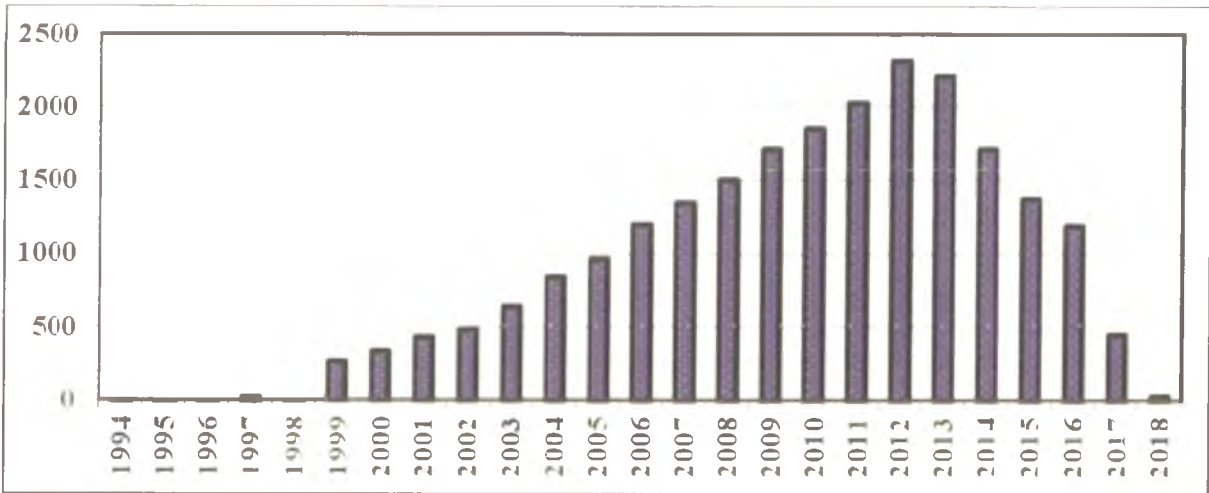


Figure 1.6. Patents in Force by Year of Filing

1.2. Utility Models

A total of 9.12 thousand utility model applications were filed in 2018, including 98.5%

of resident filings (see table 1.6, figure 1.7).

Table 1.6 Utility Model Applications, 2014-2018

	2014	2015	2016	2017	2018
Applications filed	9,384	8,618	9,559	9,112	9,120
Under the national procedure	9,373	8,602	9,551	9,105	9,115
by residents	9,243	8,490	9,470	8,977	8,980
including legal entities	6,001	5,295	6,324	5,960	6,294
by non-residents	130	112	81	128	135
Under the PCT procedure	11	16	8	7	5
including resident applications	1	–	3	–	–

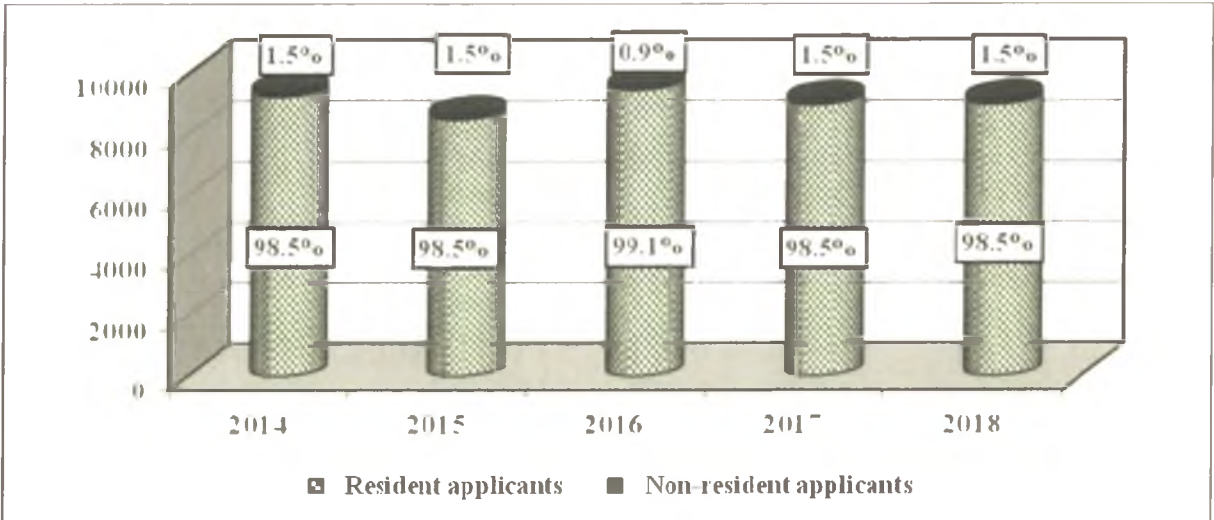


Figure 1.7. Trend in Utility Model Filings, 2014-2018

140 non-resident applications were filed, 40% of those came from Cyprus and 15% from the Russian Federation. Figure 1.8 shows the

distribution of utility model applications from non-resident applicants.

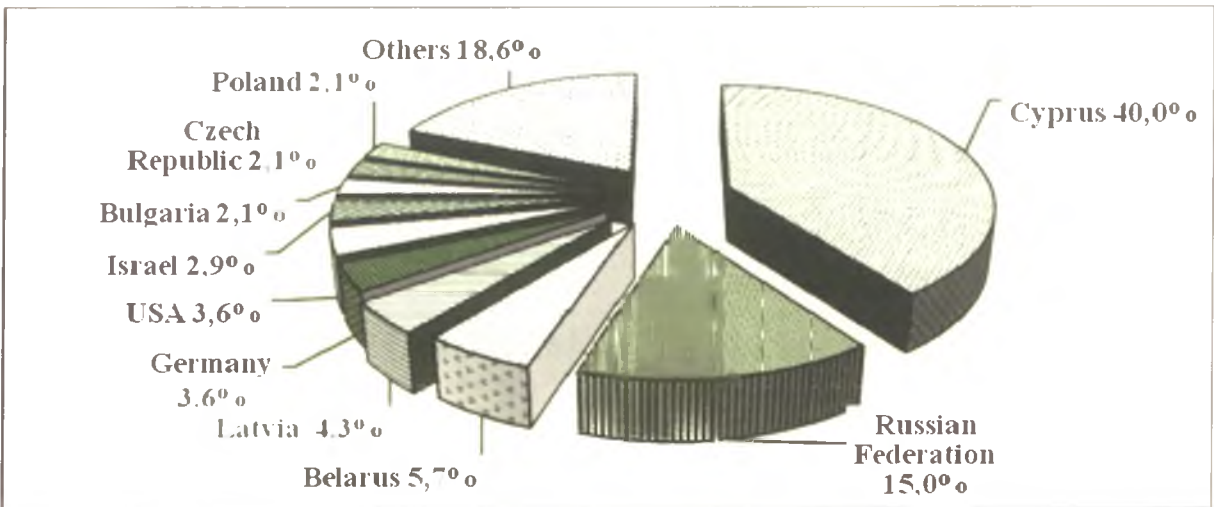


Figure 1.8. Non-resident Applications by Origin, 2018

9,481 applications for utility models were processed, including 9,073 allowed applications, 33 refused and 375 abandoned applications.

A total of 8,620 utility model patents were granted in 2018, including 98.3% of resident grants (see table 1.7, figure 1.9).

Table 1.7. Utility Model Patents Granted, 2014-2018

	2014	2015	2016	2017	2018
Patents granted	9,196	8,153	9,044	9,442	8,620
to residents	9,015	8,035	8,931	9,365	8,471
to non-residents	181	118	113	77	149
Patents in force at the end of 2018	40,268	37,416	35,914	36,658	36,992

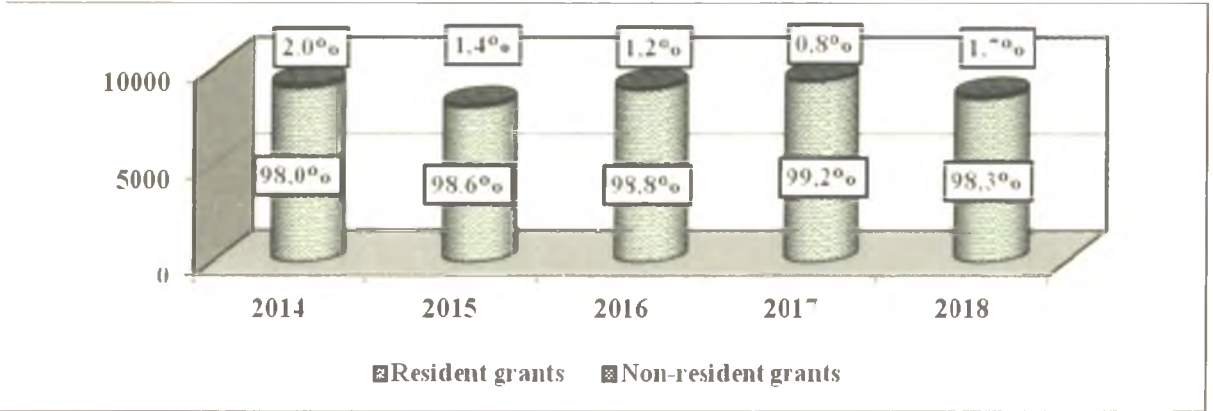


Figure 1.9. Trend in Grants of Utility Model Patents, 2014-2018

149 patents were granted to non-resident applicants, including 51 grants to applicants from Cyprus, 38 – from the Russian Federation, 8 – from the USA, 7 – from Poland, and equal numbers of patents were granted to applicants from Belarus, Turkey and Great Britain (6 grants).

As of January 1, 2019, 130,953 patents for utility models were recorded in the State Register of Patents of Ukraine for Utility Models, including 36,992 patents being in force. The distribution of patents in force at the end of 2018 by years of filing is presented in figure 1.10.

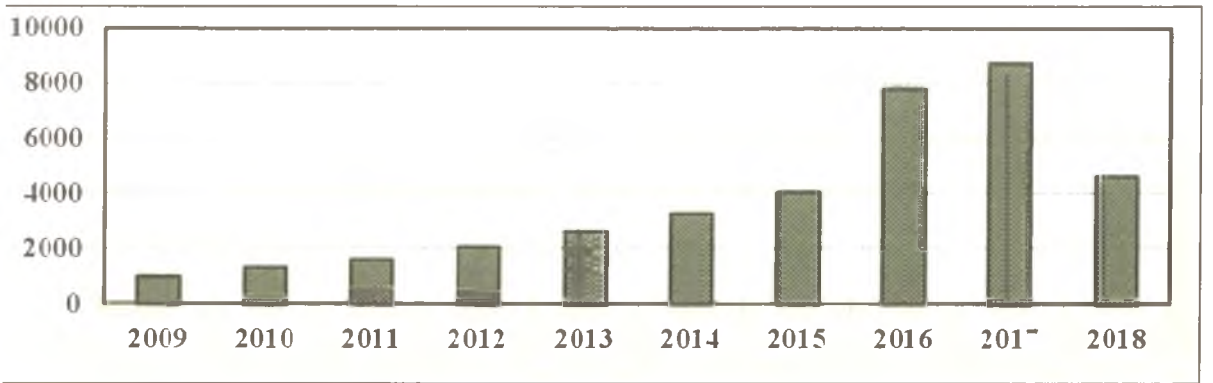


Figure 1.10. Utility Model Patents in Force by Year of Filing

1.3. Industrial designs

More than 3.0 thousand industrial design applications were filed in 2018 (see table 1.8, figure 1.11).

The share of non-resident applications amounted to 8.4% of total filings.

Table 1.8. Industrial Design Applications, 2014-2018

	2014	2015	2016	2017	2018
Applications filed	2,664	2,080	2,302	2,480	3,042
by residents	2,045	1,811	2,016	2,249	2,787
including legal entities	649	466	446	582	597
by non-residents	619	269	286	231	255

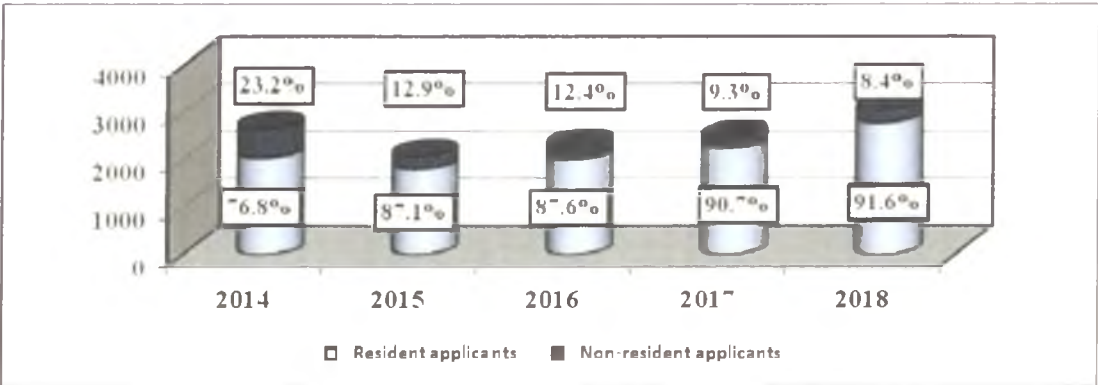


Figure 1.11. Trend in Industrial Design Filings, 2014-2018

During the year under review the most active applicants were from the Russian Federation (62 applications, 24.3%), the USA (26, 10.2%), Japan (21, 8.2%), Cyprus (18, 7.1%), the Republic of Korea (17, 6.7%), France (16, 6.3%) and the United

Kingdom (15, 5.9%) (see figure 1.12). The share of applications filed by applicants of listed countries amounted to 68.7% of total non-resident filings in 2018.

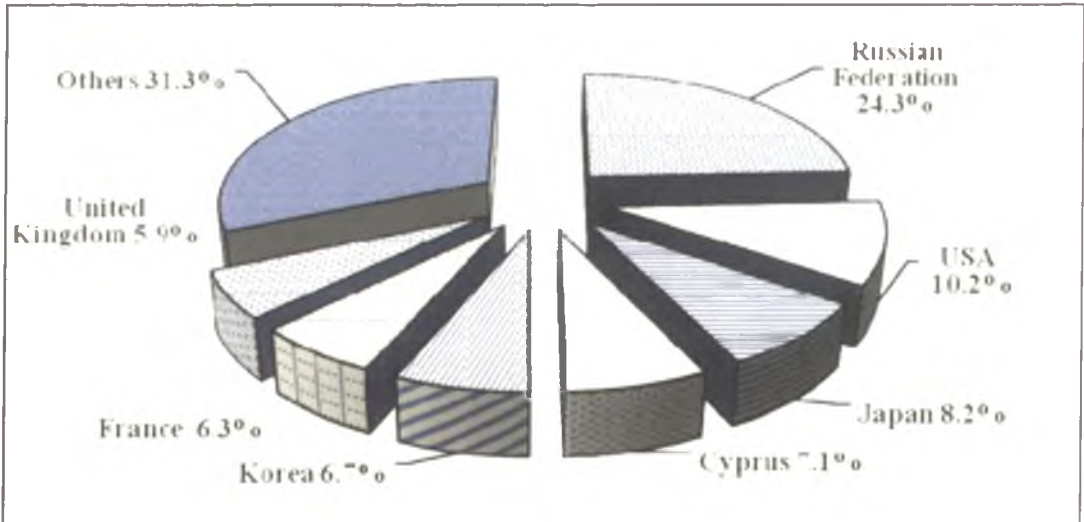


Figure 1.12. Non-resident Applications by Origin, 2018

The total number of processed industrial design applications amounted to 2,581, including 2,409 allowed applications, 4 refused and 281 withdrawn applications.

A total of 2,297 patents for industrial design were granted, including 2,077 resident grants (90.4%) (see table 1.9, figure 1.13).

Table 1.9. Industrial Design Grants, 2014-2018

	2014	2015	2016	2017	2018
Patents granted:	2,464	2,521	2,469	2,390	2,297
to residents	1,780	1,957	2,134	2,113	2,077
to non-residents	684	564	335	277	220
Patents in force at the end of 2018	11,095	12,041	13,026	13,761	14,383

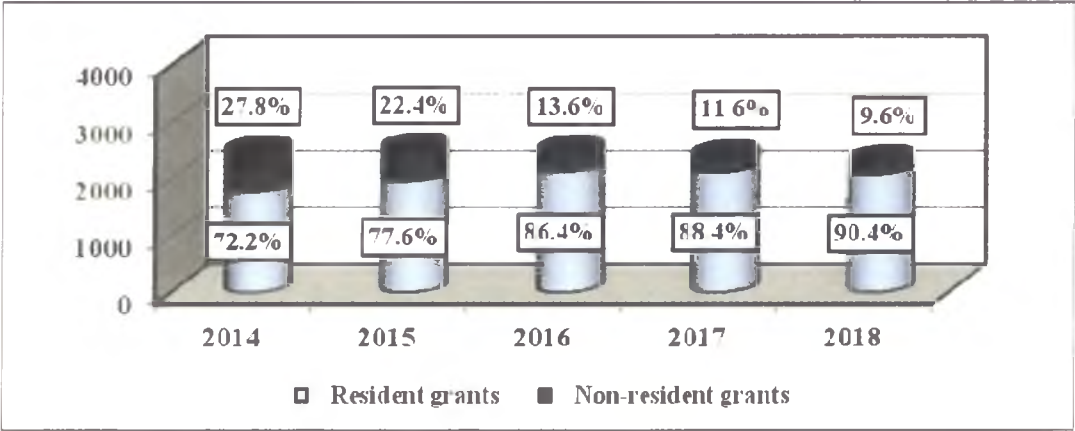


Figure 1.13. Trend in Grants of Industrial Design Patents, 2014-2018

As of January 1, 2019, 36,310 patents for industrial designs were recorded in the State Register of Patents of Ukraine for Industrial Designs, including 14,383 patents being in force.

The effect of 506 international registrations under the Hague Agreement Concerning the International Registration of Industrial Designs was extended to the territory of Ukraine in 2018 (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) – 121 registrations. The other most specified classes were class 09 (Packages

and containers for the transport or handling of goods) – 47 registrations; class 12 (Means of transport or hoisting) – 39; class 03 (Travel goods, cases, parasols and personal belongings, not elsewhere specified) – 35; class 23 (Fluid distribution equipment, sanitary, heating, ventilation and air-conditioning equipment, solid fuel) – 30; 32 (Graphic symbols and logos, surface patterns, ornamentation) – 28; class 14 (Recording, communication or information retrieval equipment) – 24; class 02 (Articles of clothing and haberdashery) – 20; class 21 (Games, toys, tents and sports goods) – 18 and class 07 (Household goods, not elsewhere specified) – 16 registrations.

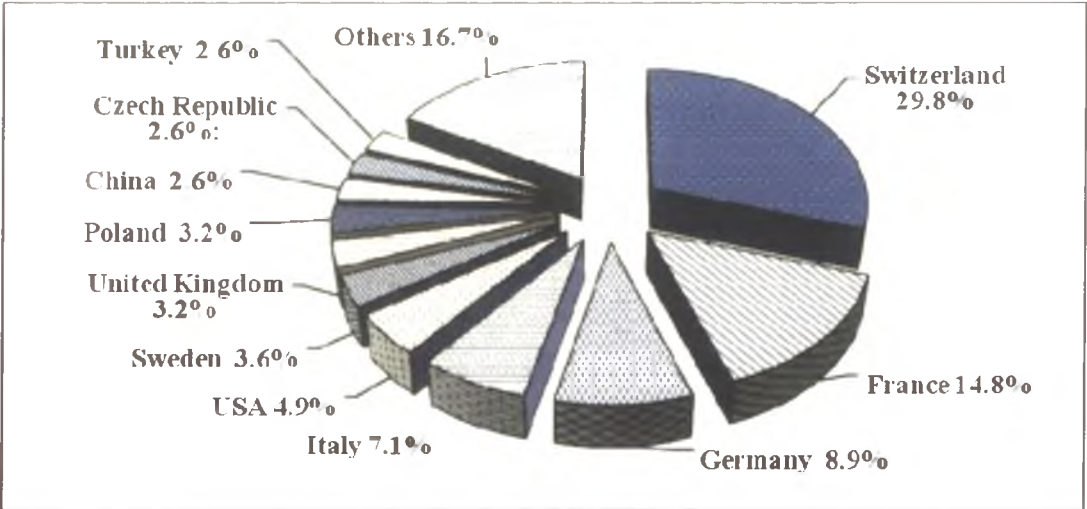


Figure 1.14. Registrations under the Hague Agreement by Origin, 2018



1.4. Trademarks and Service Marks

National procedure

In 2018, filing activity of resident applicants grew by 4.0%, activity of non-resident applicants

decreased by 8.6% (see table 1.10, figure 1.15). The number of non-resident applications amounted nearly to 3.6 thousand, or 11.6% of total filings under the national procedure.

Table 1.10. Trademark Applications, 2014-2018

	2014	2015	2016	2017	2018
Applications filed	18,796	24,652	29,600	30,183	30,899
by residents	15,141	21,245	26,064	26,275	27,329
by non-residents	3,655	3,407	3,536	3,908	3,570

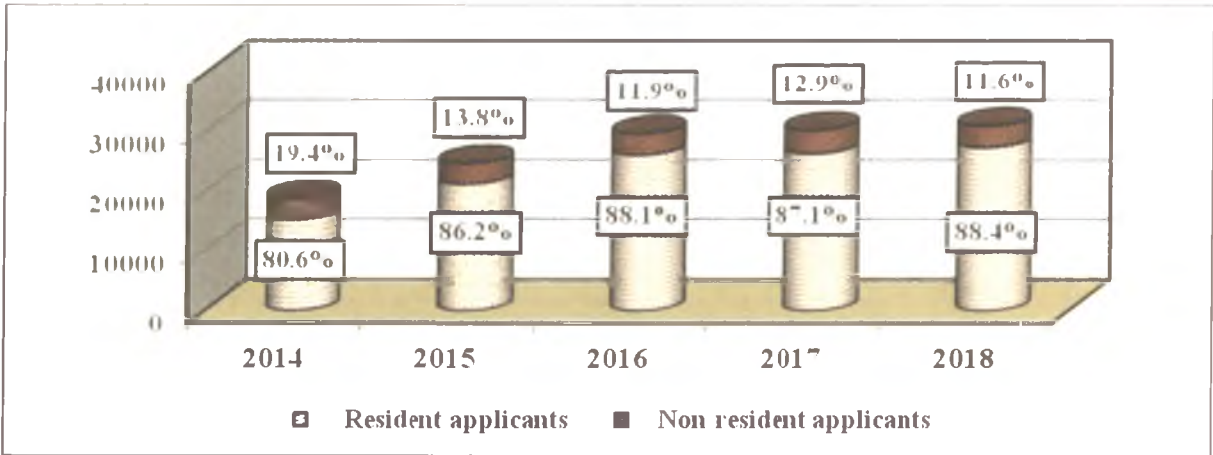


Figure 1.15. Trend in Trademark Filings, 2014-2018

The most active were applicants from the USA – 640 applications (17.9%), Cyprus – 524 (14.7%), Switzerland – 263 (7.4%), China – 226 (6.3%), the United Kingdom – 225 (6.3%), the Russian Federation – 138 (3.9%), Germany –

134 (3.8%), India – 122 (3.4%), France – 100 (2.8%), the Republic of Korea – 87 (2.4%) and Japan – 81 applications (2.3%).

Table 1.11 presents data on trademark examining activities.

Table 1.11. Results of Trademark Examining Activities, 2014-2018

	2014	2015	2016	2017	2018
Expert opinions as to form	14,169	11,627	21,166	22,985	22,748
Decisions on registration	15,018	13,448	14,338	16,620	18,218
Total rejections	1,794	1,852	1,825	1,865	1,795
Applications withdrawn or abandoned	3,235	4,036	5,726	5,270	5,245
Disposals	20,047	19,333	21,889	23,755	25,258
Pending applications undergoing substantive examination at the end of year	19,903	25,507	33,076	40,099	37,783

In the year under review 15,877 trademark certificates were registered. The share of resi-

dent registrations amounted to 85.4% (see table 1.12, figure 1.16).

Table 1.12. Trademark Registrations, 2014-2018

	2014	2015	2016	2017	2018
Marks registered	14,698	12,388	13,618	15,248	15,877
to residents	11,150	9,539	11,007	12,986	13,553
to non-residents	3,548	2,849	2,611	2,262	2,324
Registrations in force at the end of 2018	161,592	167,166	172,015	177,353	182,120

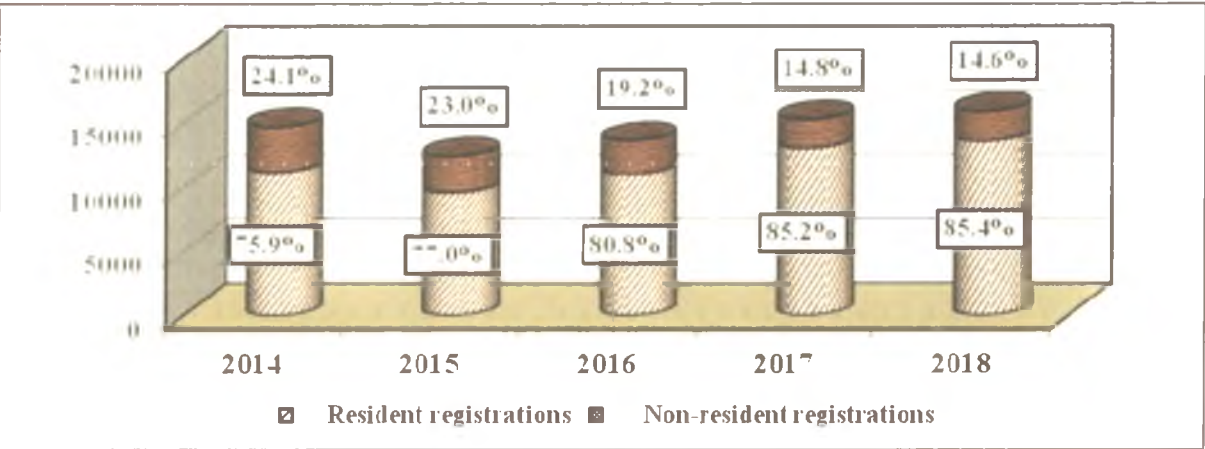


Figure 1.16. Trend in Trademark Registrations, 2014-2018

As of January 1, 2019 236,469 trademark certificates were recorded in the State Register

of Trademarks and Service Marks, of which 182,120 certificates were in force.

International procedure

In 2018, 7,752 international applications were received from the WIPO International Bureau.

The protection was granted to 7,499 international marks (see table 1.13, figure 1.17).

Table 1.13. Trademark Applications and Registrations under the Madrid System, 2014-2018

	2014	2015	2016	2017	2018
Applications filed	8,484	7,969	6,005	7,634	7,752
Protection granted	9,876	8,117	7,620	5,565	7,499

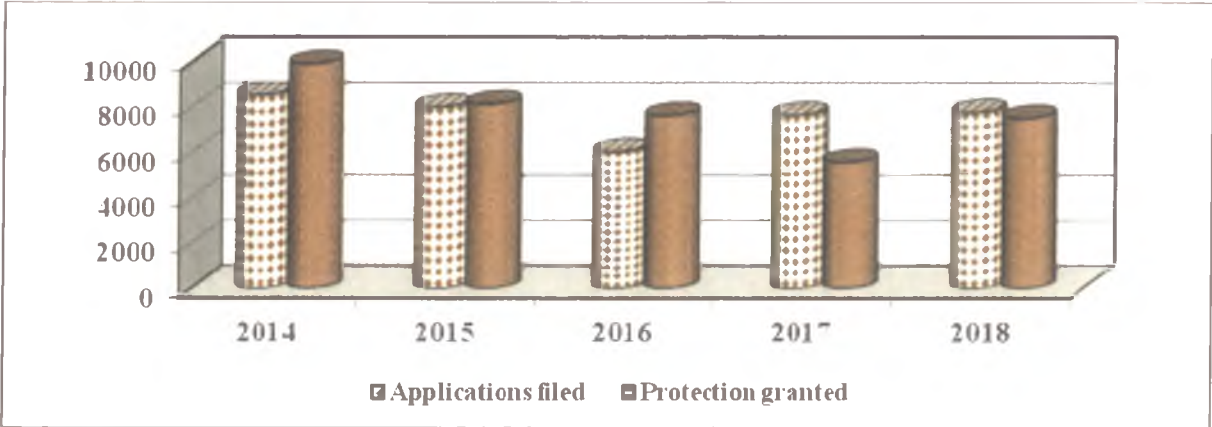


Figure 1.17. Trend in Filings and Registrations under the Madrid System, 2014-2018

The top users of the Madrid System were applicants from China (1,182 applications, 15.2%), Germany (1,100, 14.2%), France (650, 8.4%), the USA (576, 7.4%), the Russian Federation (557, 7.2%), Italy (518, 6.7%), Switzerland (457,

5.9%), Turkey (233, 3.0%) and the United Kingdom (202 applications, 2.6%). The share of applications from these countries amounted to 70.6% (see figure 1.18).

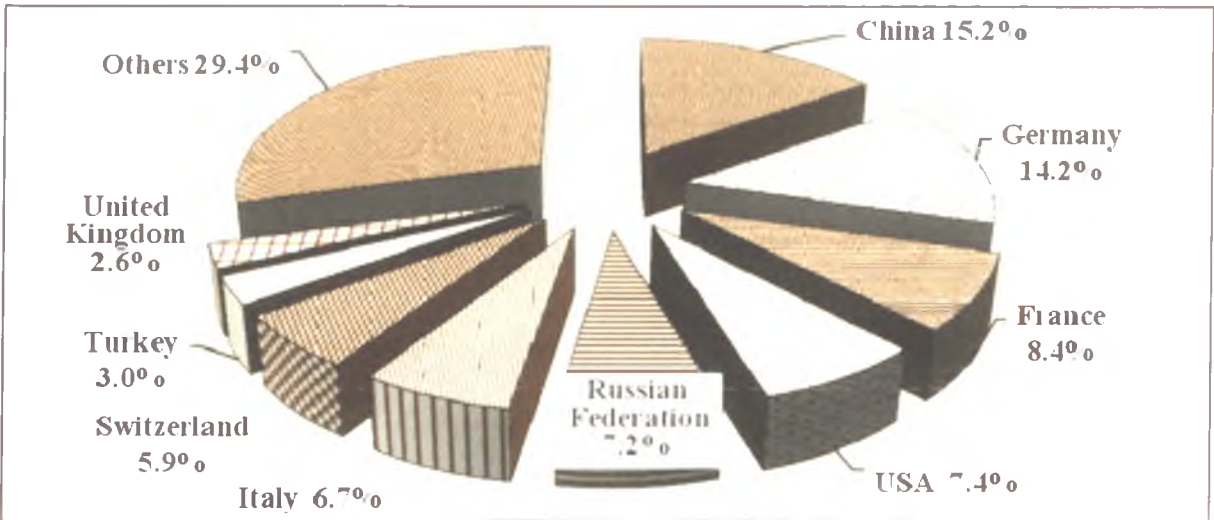


Figure 1.18. Filings under the Madrid System by Origin, 2018

In 2018, 567 resident trademark applications were sent to WIPO International Bureau for

international registration (see figure 1.19).

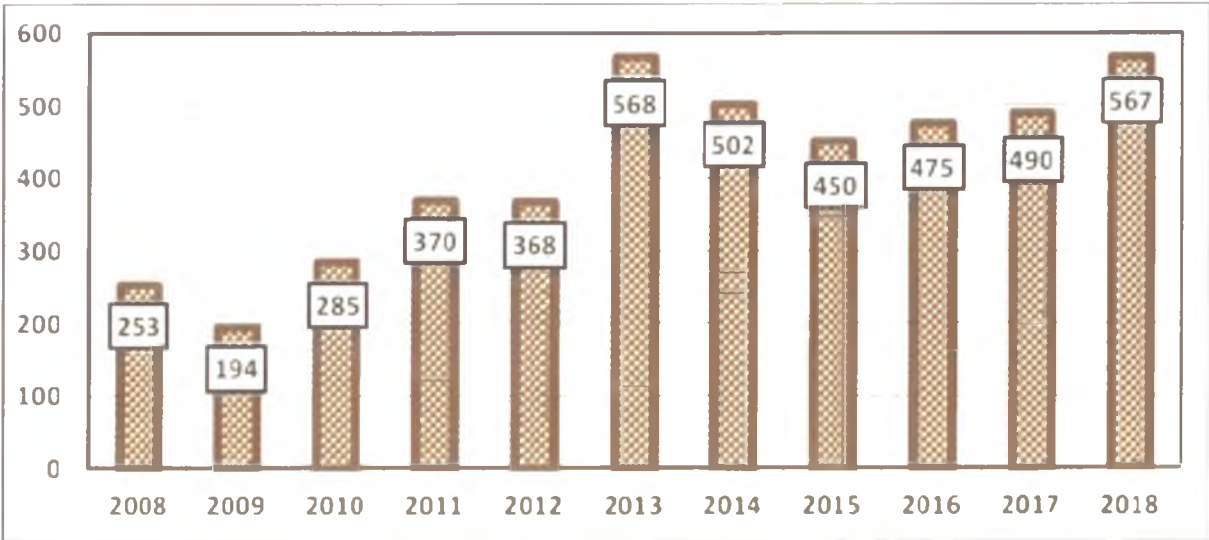


Figure 1.19. Trend in Resident Activity in the International Registration of Trademarks, 2008-2018

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

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) according to new Agreement between the Ministry of Economic Development and Trade 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. The Agreement was concluded for the period January 1, 2018 to December 31, 2027.



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 2018, Ukrpatent as receiving Office received 143 applications, that is by 9% more than in the previous year, but by 6.5% less than figure of 2016, when Ukrpatent began to function as ISA/IPEA (see figure 2.1).

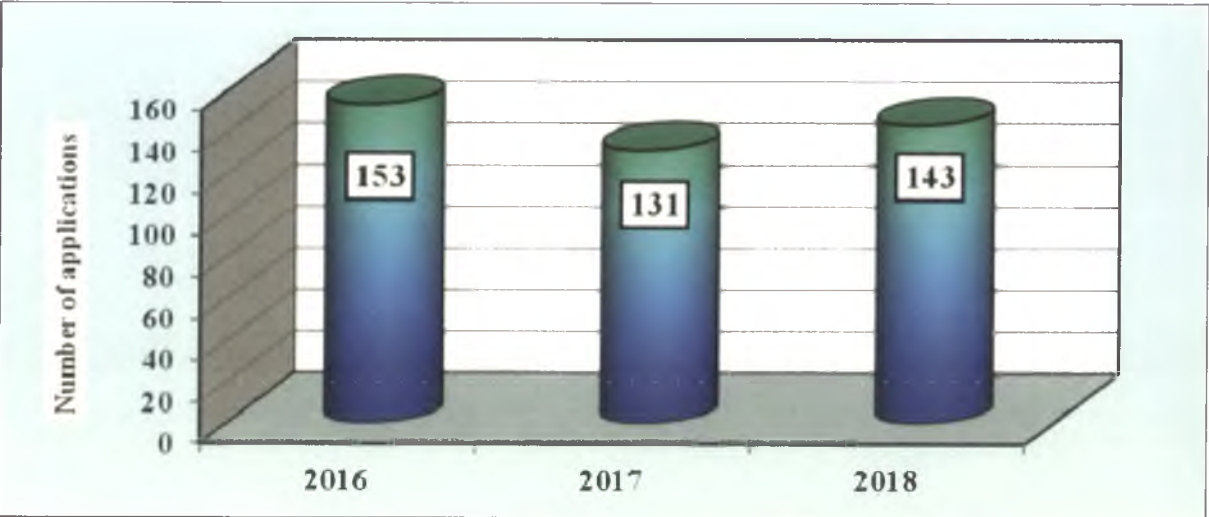


Figure 2.1. International filings with Ukrpatent as receiving Office, 2016-2018

From 2016 to 2018 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 1).

Table 2.1. ISA performance indicators

	2016	2017	2018	Total
Number of search copies received	22	39	52	113
Number of international search reports and written opinions transmitted to applicants and to the IB	18	39	35	92

Within the period mentioned one request for supplementary international search was received (in 2017), and subsequently one supplementary international search report was transmitted to applicants and to the IB (in 2018).

There was growth in the number of demands for international preliminary examination and international preliminary reports on patentability transmitted to applicants and to the IB in 2018 (see table 2.2).

Table 2.2. IPEA performance indicators

	2016	2017	2018	Total
Number of demands for international preliminary examination	3	5	8	16
Number of international preliminary reports on patentability transmitted to applicants and to the IB	–	4	7	11

Ukrpatent pays great attention 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 Ex-

amination 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 2.2).

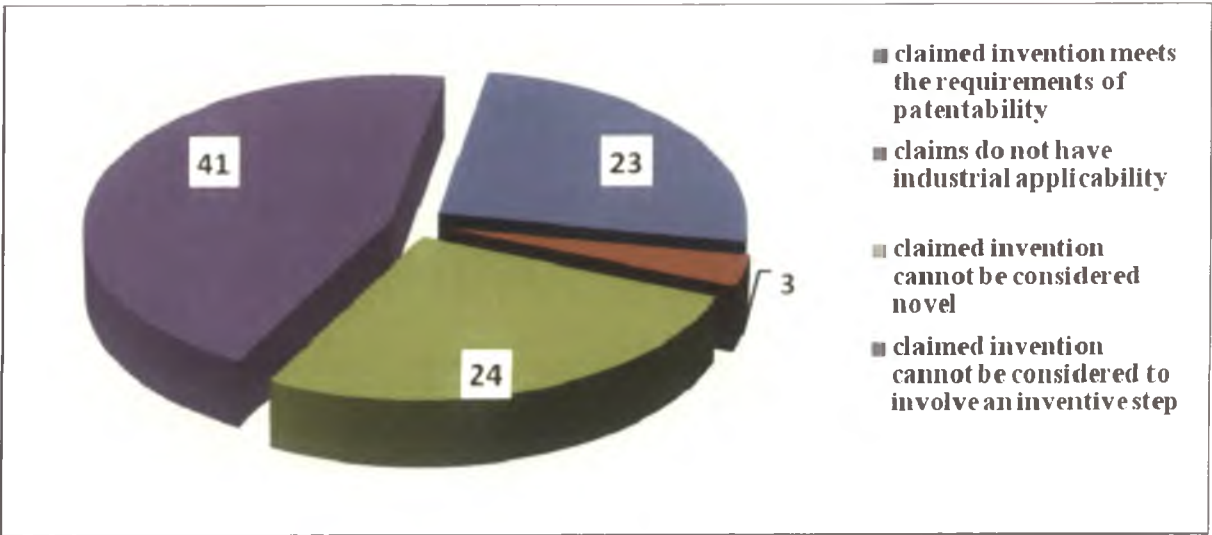


Figure 2.2. International search reports and written opinions by search results, 2016-2018

All procedural time limits are 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.

In order to assist national inventors in seeking patent protection internationally for their inventions and to promote growth in number of international applications, wherein Ukrpatent is designated as ISA/IPEA, amendments to Part I of Annex D "Fees and Charges" were made, in particular amounts of fees and charges, which Ukrpatent is entitled to make in relation to its functions as an International Searching Authority and International Preliminary Examining Authority, were reduced for applications in Ukrainian or Russian (see table 2.3). These amendments entered into force on 1 September of 2018.

Table 2.3. Schedule of Fees and Charges

Kind of fee or charge	Previous amount (Euro)	Amended amount (Euro)
Search fee (Rule 16.1 (a))	300	100*
Additional fee (Rule 40.2 (a))	300	100*
Supplementary search fee(s) (Rule 45bis.3 (a))		
- of the documents in the search collection of the Authority, including the PCT minimum documentation under Rule 34	200	90
- of only Russian language documentation of the former USSR and Ukrainian language documentation	150	70
- of only European and North American documentation	200	90
Supplementary search fee for a search in accordance with paragraph (3) of Annex B, where a declaration referred to in Article 17(2)(a) has been made because of subject matter referred to in Rule 39.1(iv)	100	60*
Preliminary examination fee (Rule 58.1 (b))		
- the international search report has been prepared by the Authority	160	50*
- the international search report has been prepared by another Authority	180	70*

* for an application in Ukrainian or Russian

3 Information Support of Examination of Applications for Industrial Property Rights

3.1 Patent Information Resources

In 2018, to meet the examiners need in reliable and up-to-date information, in particular for proper patent information provision of functioning as an ISA and IPEA, formation of a number of patent information funds and electronic resources that make the patent information base for examination purposes, was provided at Ukrpatent.

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 almost 400 CDs from the national patent offices of 8 countries and the data from 336 optical disks were used to replenish electronic information resources for carrying out an information search.



In the reporting year, the decrease tendency retained in the number of disks with foreign patent documents received by Ukrpatent as foreign patent offices discontinue traditional ways of publishing patent documents on physical carriers and change-over to the data exchange using FTP-servers.

Within the framework of the exchange Ukrpatent continued:

- distribution of the Official Bulletin "Industrial Property" on CD-ROM and the National CD-ROM "Inventions in Ukraine" to the partner agencies – according to the registers of free-of-charge distribution of these publications, approved by the MEDT.

- exchange of the patent documentation via FTP-servers – in accordance with the Register of Free International Exchange of Patent Documentation on Non-Material Carriers, approved by the Director General of Ukrpatent.

In the course of 2018, the Reference and Information File (RIF) for examination was replenished by about 1,550 copies of books, booklets, periodicals, as well as the national patent documentation – current publications of the Official Bulletin "Industrial Property" on CD-ROM, the National CD-ROMs "Inventions in Ukraine" and "Trademarks and Service Marks Registered in Ukraine".

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 is considerably expanded:

- the Network Electronic Catalogue was replenished with about 1900 documents;

- the full-text non-patent literature database of the Search Portal was replenished with about 7,200 documents by digitalizing of printed publications from own collections and those obtained from other information sources.

In 2018, 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 infor-

mation 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 89 the 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 1700 documents were provided, including 75.5% 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 extension of the list of free-of-charge databases and analysis of foreign commercial Internet resources for

the availability of non-patent literature, in the first place those of the PCT Minimum Documentation items.

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 (since 2007) and the leading companies of the world on access to foreign commercial information Internet resources, the list of which has been approved by the relevant order of Ukrpatent.

In 2018, the complex of works was continued to ensure the guaranteed access of the examiners to 10 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 (the United Kingdom), accessible through the EPO's EPOQUE Net system (since 2011);
- REAXYS database by Elsevier B.V. (the Netherlands) (since 2011);
- 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);
- Reaxys Medicinal Chemistry database by Elsevier B.V. (the Netherlands) (since 2018).

In the reporting year cooperation was provided with commercial providers of foreign resources relating to renewal of the expiring agreements. In particular, new agreements

were concluded that provide examiners access to:

- STN files and features (STN Global Value Pricing) – in 2018-2021;
- Derwent World Patent Index (DWPI) database (accessible through the EPO's EPOQUE Net system) – in 2018-2020;

The necessary measures were taken to renew agreements with providers of foreign commercial information Internet resources that ensure access of Ukrpatent to the sources of non-patent literature for 2018-2019 years.

According to the examination needs the works were carried out required for the conclusion of an agreement on access to the new foreign commercial information Internet resource – the EMBASE database by Elsevier B.V. company (the Netherlands) for 2019-2020, which is the world's largest abstract database of journal publications and theses of conferences in the field of biomedicine.

In accordance with the concluded agreement on access to the EPOQUE Net system, effective from 2017 till the end of 2020, Ukrpatent, within the framework of data exchange, continued loading of the current national patent documentation from the National CD-ROM "Inventions in Ukraine" (the Ukrainian invention and utility model patent specifications) to the EPO's FTP-server.

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 implementation of their new versions/editions in the state system of intellectual property legal protection, in line with the strategy and practice adopted by WIPO, was realized.

On completion of the complex of works implemented by Ukrpatent in 2017 on updating the texts of the International Classification of Goods and Services for the Purposes of the Registration of Marks (Nice Classification), the International Classification of the Figurative Elements of Marks (Vienna Classification) and the International Patent Classification (IPC) their new versions/editions were introduced in the state system of intellectual property legal protection, which entered into force in 2018 and were put into effect by the relevant orders of the MEDT:

- On Implementation of the Eleventh Edition of the International Classification of Goods and Services for the Purposes of the Registration of Marks Translated into Ukrainian, dated January 11, 2018, No. 19;

- On Implementation of the Eighth Edition of the International Classification of Figurative Elements of Marks Translated into Ukrainian, dated January 11, 2018, No. 20;

- On Implementation of the 2018 Version of the International Patent Classification Translated into Ukrainian, dated March 28, 2018, No. 431.

In pursuance of these orders, information and reference systems (IRS) for NCL (11-2018), VCL (8) and IPC (2018.01) were created and freely available at the Ukrpatent website.

In connection with the introduction of changes and additions to the text of the IPC by WIPO in 2018 and entering into force of the IPC (2019.01) on January 1, 2019, an 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 (2018.01) with the aim to create and use the IPC (2019.01), translated into Ukrainian, in the state system of intellectual property legal protection from January 1, 2019;

- creation of the new IRS "International Patent Classification (IPC (2019.01))", 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 2018 version of the said Handbook in Ukrainian translation was also created and its placement in the IRS for the IPC was ensured. The format for displaying information in the Handbook has been also changed – it is currently 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, 2019, by the Order of the MEDT dated December 18, 2018 No. 1936 On Implementation of the 2019 Version of the International Patent Classification Translated into Ukrainian, the IPC (2019.01) in Ukrainian translation is introduced in the state system of intellectual property legal protection.

In connection with changes and additions introduced by WIPO to the 2018 version of the eleventh edition of the Nice Classification in 2018 and implementation of the 2019 version of the eleventh edition of the Nice Classification – NCL (11-2019) – as of January 1, 2019, the appropriate set of works was realized at Ukrpatent and provided:

- translation from English into Ukrainian, scientific and terminological, scientific and technical editing of the changes and additions to the NCL (11-2018) in order to create and provide the use of the NCL (11-2019) translated into Ukrainian in the state system of intellectual property legal protection;

- creation of the IRS "International Classification of Goods and Services for the Purposes of the Registration of Marks (Nice Classification)" for the NCL (11- 2019), which is freely accessible through the Ukrpatent website. In the specified IRS the opportunity to access earlier versions/editions of the Nice Classification that ceased to be in force, but may be used for information and/or educational purposes, was realized.

In order to improve the quality of the examination of applications for trademarks and service marks 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, by the Order of the MEDT dated December 18, 2018 No. 1934 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, the NCL (11-2019) in Ukrainian translation is introduced in the state system of the intellectual property rights protection from January 1, 2019.

In 2018, cooperation was in progress between the Ukrpatent specialists and the WIPO subdivision, responsible for the operation and development of the online tool Madrid System Goods & Services Manager (G&S Manager), 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 G&S Manager, which operates on the WIPO website from February 2015 (<https://webaccess.wipo.int/mgs/?lang=uk>), was provided.

The G&S Manager 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.

The new interface elements developed and updated by WIPO in the framework of the G&S Manager improvement are constantly provided in Ukrainian.

In 2018, in connection with the introduction by WIPO changes and additions to the eleventh edition of the International Classification for Industrial Designs (Locarno Classification) and introducing from January 1, 2019 the twelfth edition of the Classification – LOC

(12), the corresponding set of works was realized in Ukrpatent and the following was provided:

- translation from English into Ukrainian, scientific and terminological, scientific and technical editing of changes and additions to the LOC (11), as well as overall refinement of the Ukrainian translation of the classification in parts related to the changes introduced in order to create and enforce the use of the LOC (12), translated into Ukrainian, in the state system of intellectual property legal protection.

- creation of the IRS "International Classification for Industrial Designs (Locarno Classification)" for the LOC (12).

Given the fact that WIPO fundamentally changed the form of information display in the Locarno Classification in 2015 and issued a new official electronic publication of the LOC (11) at the end of 2017, two new information and reference systems for the Locarno Classification were created at Ukrpatent and released in 2018. The information content of the 11th edition was preserved but reflected in the form recommended by WIPO and the form and content of the LOC (12) are fully in line with the official publication of the LOC (12) on the WIPO website.

As a result of these works, by the Order of the MEDT dated December 18, 2018, No. 1935 On Implementation of the Twelfth Edition of the International Classification for Industrial Designs Translated into Ukrainian, the Ukrainian translation of the LOC (12) is introduced in the state system of the intellectual property rights protection from January 1, 2019.

3.3. WIPO Standards in the Ukrainian Translation

In the course of proceedings for 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 (DB and IRS), 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 2018, in particular, the new WIPO Standard ST.27: Recommendation for

the Exchange of Patent Legal Status Data was translated. 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.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. IT is an Important Tool for Managing the Enterprise Efficiency

The activities of Ukrpatent as the examining authority are related to the collection, processing, storage and distribution of a large body of information. This information includes data contained in hundreds of thousands of applications for industrial property rights (IPR). There is a constant rapid growth trend of its volumes due to the increase of applications number, converting the paper fund of applications into electronic form and switching to elec-

tronic (paperless) proceedings. Thus, over the last 10-15 years, the total amount of data at Ukrpatent has increased tens of thousands of times and has reached 50 Tbytes. Processing such volumes of information is possible only through the use of computer equipment to automate the totality of information processes that take place in the processes of pendency of applications for IPR. Automation of these processes provides for a high-speed data processing, quick information retrieval and access to information sources regardless of where they are located.



Today, the integral information and telecommunication complex (ITC) has been built and successfully operates at Ukrpatent. This ITC is a complex integrated automated human-machine system, consisting of specialized computer automated systems (AS) with profile automated workstations (AWS) of Ukrpatent specialists and a number of relevant databases (DB) – technological and profile.

All the automated systems and databases of Ukrpatent within the ITC provide automated implementation of the procedures (functions, actions) envisaged by laws, regulations of the Government, other normative legal acts (regulations, rules, procedures, etc.) in the field of intellectual property legal protection, as well as the Statute of Ukrpatent. Such procedures (functions, actions), primarily, are the following:

- receipt of incoming documents (including electronic applications for IPR) and their prompt processing;
- forming and sending of corresponding outgoing documents (inquiries, reports, examination opinions, answers to letters of incoming correspondence, etc.) to the addressees;
- reliable storage of paper and electronic documents;
- prompt search of necessary information in databases;
- accounting and quick control of fees;
- forming and inclusion of data in the state registers of titles of protection for intellectual property rights;
- preparing official bulletins original layouts and their publication;
- forming titles of protection (patents, certificates) for intellectual property rights and their annexes, printing and issuance of them;
- automated implementation of procedures for maintaining validity of titles of protection for intellectual property rights;
- provision of patent information services to users;
- formation of statistical data;
- protection of information and granting the authorized access to it for relevant users;
- providing information, extracts from the state registers, etc.

For many years Ukrpatent has been making significant efforts and has been deploying resources to develop and maintain its ITC. A powerful data center has been built here. In the process of pendency of applications for IPR and providing services to users (individuals and legal entities), processing of information is carried out by using the databases, automated systems, relevant information repositories and information retrieval systems. All these resources are the components of the ITC of Ukrpatent.

Functional characteristics of the automated systems are updated annually, their ergonomic performance is improved. Technical means of the ITC (computer, communication) are regularly updated by modern models of computers and server equipment.

The measures taken to implement and develop information technology at Ukrpatent promote the quality of the IPR applications examination, improvement of working conditions of personnel, reduction of material and labor costs in the processes of keeping records, release of official publications, information exchange.

4.2. Automation of Applications Processing. Development of Technological Automated Systems

All the processes of IPR applications processing, primarily including examination, preparing data for state publication and the state registers technical administering, are performed at Ukrpatent in the environment of technological automated systems. Initially, they were developed as individual specialized systems for every IPR. Further development of the systems, improvement and widening of their functionality, unification of some subsystems and modules resulted in establishment of the ITC of Ukrpatent.

Today, functional components of the ITC of Ukrpatent are:

technological automated systems (the Inventions AS, the Trademarks AS, the Industrial Designs AS, the Outgoing Documents AS, the Indicators AS, the Fees Accounting AS);

the central electronic archive of documents (CEAD);

the General Document Management AS, integrated with the technological automated systems and the CEAD;

the electronic filing system for IPR applications;

the system for electronic interaction of Ukrpatent with the relevant entities in the process of acquisition and maintenance of the validity of titles of protection for IPR;

the unified electronic classifier of documents;

the system for converting paper documents into electronic format;

the search portal for patent information sources retrieval in the course of the examination of applications for inventions;

online resources for public access.

The ITC of Ukrpatent is continually changing. Some of its components are subject to ongoing changes. Their functionality is based on the principles defined by the provisions of the current legislation of Ukraine, which may change for a certain period of time. Therefore, in the event of such changes, the automated systems are updated in terms of procedures for documents processing, templates of outgoing documents, etc.

Thus, the Inventions AS, the Trademarks AS, the Industrial Designs AS were created and put into operation in the years 1996-1998. Since then, several stages of modernization of these systems have been carried out, which included restructuring of databases, architectural redevelopment, and introduction of large amount of additional functional modules. Automation of functions ensures the implementation of technological processes of applications examination from the receipt of application materials to maintenance and termination of IPR, publication of relevant information in the Official Bulletin "Industrial Property" and information exchange with applicants and foreign patent offices. The whole cycle of formation, approval, signing, transfer and registration of documents is carried out on the basis of electronic (paperless) technology.

In early 2018, Ukrpatent completed work on converting large volumes of retrospective paper patent documents into an electronic

form. Uploading electronic documents to databases has led to a significant increase in their population. In connection with this, there was an urgent need to provide stable high performance parameters of the automated systems when making search queries and performing server procedures. To address this issue, special studies were conducted and a database testing methodology was developed. On the basis of a detailed analysis of the test results and the obtained statistical data, the necessity of reengineering the processes of storing, searching and processing of data in the automated systems was substantiated. After the technical specification development in the fourth quarter of 2018, implementation of the first phase of the project began. According to the design decisions, the automated systems high performance is provided by dividing the technological database into two components: current and archival. The division of the technological database into current and archival parts causes a decrease in the number of entries in the tables of the current database, which leads to increase in the speed of the queries execution and to reduction of the necessary computing resources of the server to perform queries. Comparison of the queries execution results and server procedures in the current and the test databases showed that the decision to develop a new database structure and restructuring of data will significantly reduce the use of server resources (in some cases by ten folds).

Also, in 2018 improvements of the Trademarks AS and the Industrial Designs AS were implemented due to changes in the organizational structure of Ukrpatent. Thus, expanding the functional competencies and tasks of the documentation department required urgent creation of the appropriate mechanism. Such a mechanism was created in the form of a multifunctional software module that provides the department specialists for the implementation of a set of functions, namely:

receipt of applications from departments after sending a decision on registration of a mark, a decision on patent grant for an industrial design;

distribution of applications to the department employees for processing;

- registration of payment documents regarding fees and state duty;
- control over the terms of state duty and publication fees payment;
- preparation and transfer of applications for further assignment of patent and certificates numbers;
- drafting letters to applicants;
- making changes to the application materials in accordance with the applicants requests;
- transfer of applications to examination departments for processing;
- transfer of applications to the archive for storage;
- bar code identification of a document and an application;
- control over the term of state duty and publication fee payment from the date of receipt of the decision (opinion);
- calculation of a fee for publications concerning applications for trademarks and service marks, taking into account the number of classes and colors.

In addition to this improvement of the AS, a large number of other adjustments, enhancements and changes in the AS software have been made, which have contributed to the improvement of ergonomic performance and system performance.

For the Outgoing Documents AS, the following improvements have been made:

- the Launcher software module was created to improve the stability of the system and verify the availability and launch of software updates;
- changes were made to the ext.Cancel-Document server procedure, which ensured checking and making it not possible that the document sent to the electronic interaction system or to an e-mail was canceled/deleted;
- changes were introduced to the Quick Search module that provided the grouping of search results in the Documents list by sets of documents and inclusion, in the search results, of documents sent by e-mail and by means of the electronic interaction system of the examining authority with the relevant parties (hereinafter – EIS EAP);
- changes have been made to the "Sender of Documents to the EIS EAP" and "Sender of

Documents via E-mail" service programs to improve stability of their work.

For the Industrial Designs AS the following revisions have been made:

- new forms of the outgoing documents – Notification on Duty Payment and Notification on Renewal of Payment Terms for the Application – were created, algorithms of corresponding technological operations were implemented;
- the title page of a legalized copy was amended as well as the on-screen form of the initial data preparation for the original document "П-11";
- interaction of the Industrial Designs Technological AS with the EIS EAP was provided.

In order to ensure interaction of the Industrial Designs Technological AS and the EIS EAP, the following changes have been made to the server and client software of this AS:

- series of server procedures were established that manage all correspondence processes between applicants and the examining authority through the EIS EAP;
- the Industrial Designs AS database structure was expanded with the ElisClaims table for storing information about applications for which correspondence is carried out through the EIS EAP;
- functions of outgoing documents initial data preparation in the client part of the AS were extended;
- corresponding types and forms of incoming documents, technological operations and outgoing documents were created;
- changes were made to the structure of the document management database to ensure storage of information about the EIS EAP users, to whom the original document is to be sent;
- changes were made to the outgoing documents creation function for the document management server and to the function of transferring outgoing documents to the general department.

Similar changes were made to the Trademarks AS to ensure its interaction with the EIS EAP in the process of sending and receiving documents.

4.3. Electronic Document Management

4.3.1. Electronic Management of Technological Documents

At Ukrpatent, from the very beginning, research and actual practical measures for implementation of the electronic document management were carried out in two directions. This is due to the fact that all documents are divided into two flows: technological, related to the processing of IPR applications, and general.

In 2006, a project was launched to develop a system for technological electronic document management, which became the basis for creation of a new version of the Inventions AS and its commissioning in 2008. In the new version of the Invention AS, applications proceeding is carried out according to the scheme of the electronic document management, which significantly increases productivity and quality of work at all the stages of inventions and utility models applications proceeding owing to the control means for applications proceeding, a significant reduction of turning to paper files and documents, a prompt electronic routing of files and documents for further processing.

In 2018, the positive effect of electronic document management was also taken into account in the Trademarks AS and the Industrial Designs AS. Thus, to ensure automation of the set of functions of a new document processing department, created in early 2018, significant changes were made to the modules for the forming, registering, operational routing of documents, signing documents, control of deadlines, automated bar code identification of documents and applications and other functions.

The revision of the Trademarks AS and the Industrial Designs AS software resulted in the introduction of electronic document management at all the stages of processing applications for trademarks and service marks and industrial designs.

4.3.2. Electronic Management of General Documents

In 2002, the first system of electronic document management for general documents was implemented on the basis of the records management system (RMS "Dilo 8.0"). With some restrictions (document bodies were not stored in electronic form) this system existed until 2015. In the same year 2015, the development and commissioning of a new system – the General Document Management AS – was completed. Two years later, in 2017, circulation of official notes, orders, letters and other documents on paper was discontinued.

The General Document Management AS operation in 2017 and 2018 preconditioned new demands for expanding the functionality of this system. In this regard, in the third quarter of 2018, development of design solutions was completed, which determines the scope of requirements, means and order of software modules updating to expand the service functions of the system.

4.4. Online Services. Electronic Exchange

According to the Concept of the e-Government development in Ukraine, approved by the Cabinet of Ministers of Ukraine on September 20, 2017 No. 649-r, the introduction of electronic services in all spheres of social life is one of the main measures of its implementation. Ukrpatent, authorized to act as the examining authority for industrial property rights applications, according to its statutory activities, provides a range of patent information services to a wide range of users. To ensure high quality and efficiency of these services, special information systems are developed that provide remote access and electronic interaction between users and Ukrpatent. Upgrading and expanding their functionality is outlined to improve these systems and ensure technological compliance with current plans.

At present, a number of systems have been introduced and are under development at Ukrpatent, designed to meet the information needs of applicants and other categories

of consumers in the field of intellectual property. The systems are the following: the electronic applications filing system (EAFS), the electronic interaction system of the examining authority with the relevant parties (EIS EAP), interactive databases, information and retrieval systems.

The year 2018 was particularly productive in terms of completing the projects of the EIS EAP creation, improving the EAFS, started in 2017, as well as the inter-system integration of the electronic document management of Ukrpatent with the electronic interaction system of executive authorities (EIS EA).

The EIS EAP is a multifunctional system that ensures automation of the whole range of work with electronic documents. The document exchange between the parties to the relations arising in the course of the procedures for acquiring and maintaining the validity of intellectual property rights may be carried out through different channels: via the electronic interaction web portal, via the SFTP server and the e-mail server. At the final stage of the EIS EAP creation in 2018, the schemes of interaction of the EIS EAP with other automated systems of Ukrpatent were solved. To interact with the examining authority through the EIS EAP system, each user registers and gets a client area from which the entire set of service functions is available.

The concept of the EIS EAP creation is to provide users with a convenient and the fullest set of electronic services for the document exchange, including the filing of applications for all types of intellectual property rights. It is assumed that at a certain stage of the EIS EAP operation, which is considered to be more convenient and more advanced, it will displace the existing EAFS system. But at the current time, the EAFS is relevant, the fourth part of all the applications filed in 2018 are electronic. Within the framework of the EAFS improvement measures, in 2018 the following revisions were made:

a new mechanism for forming a document with reproductions of industrial designs has been introduced (a document is generated by the system automatically from the reproductions and descriptions provided by the applicant, while the applicant does not affix an elec-

tronic digital signature to separate reproductions, but to the complete document generated by the system only);

the mechanism of applications transfer (those filed through the EAFS) from one patent attorney to another (with the possibility of further correspondence in paper form) is introduced;

changes to the mechanism of documents and applications registration, in order to increase its efficiency, were made.

In the fourth quarter of 2018, Ukrpatent launched a new project to create a customer on-line area for services provided by Ukrpatent (COAS). The COAS is an Internet service intended for the users to have the most convenient and easy access to the service ordering functions, to be in correspondence with the defined specialist of Ukrpatent, to receive the services provision results and to pay for their provision.

Also, in 2018, a group project to develop and improve the unified mechanism for the operative current updating of interactive databases of Ukrpatent and the creation of a specialized information retrieval system for access to certain internal and external information sources turned to be unprecedented, in terms of the scale and the expected effect. The implementation of this project will ensure a real time publication of information about any industrial property right, and by means of the information retrieval system an open and authorized access (through an electronic digital signature) will be provided to a certain part of the electronic dossier of the IPR. This project was started in the second quarter of 2018. By the end of the year, the stages of the system designing, developing data structures, developing software for the Subsystems "Updating" and "Refreshing" as well as their testing, have been completed which is about 50% of the whole project.

4.5. The IT Infrastructure Development

The measures to develop the IT infrastructure of Ukrpatent conducted in 2018 were aimed at building a high availability core of com-

puter network, increasing the network capacity, security and controllability.

In the second quarter of 2018, for implementation of the IT Infrastructure Development Plan, licenses for standard software (server operating systems) were purchased, namely:

Microsoft Windows Server Datacenter 2016;

Microsoft SQL Server Enterprise 2016 for four cores.

Updating this software allowed to increase the processor power of two Ukrpatent database servers (ELLAV and FOX), as well as provided for virtualization of servers and increased the automated systems levels of functionality and security.

To replace the core of the LAN, increase its bandwidth and increase the fail-safe capacity, new communication equipment, consisting of the network switches (SAN) HPE SN3000B and the LAN switches HPE Aruba 2930M 48G and 24G, were purchased and put into operation in the third quarter of 2018. All switches have two power supplies.



Also, in the fourth quarter of 2018, new computer (server) equipment as the part of the HPE Proliant DL380 Gen10 servers, the HPE 3Par StoreServ 7200 and HPE MSA2050 data storages, the UPE HPE R5000 UPS and HPE R/T3000 G4 UPS (uninterruptible power supplies) were put into operation. The servers are technical components of new information systems put into operation in 2018. They also

provide for the increased power and speed performance of the existing systems. The increase in data storages capacity is intended to accommodate ever-increasing volumes of information. The UPSs are used to increase server operating time in the absence of voltage in the power supply network.



Antivirus protection for users connected to the local computer network (Eset Endpoint Protection Advanced) was also updated. In 2018, in order to ensure high performance and reliability of workstations and their compliance with ergonomic and environmental safety standards, the outdated equipment was taken out of operation and more than 70 modern computers and widescreen LCD monitors were put into service in place.

In order to maintain efficiency and high availability of the software and hardware complex, the system and application software of the Ukrpatent automated systems, to maintain the integrity of databases, the centralized administration and monitoring of the technological automated systems resources was conducted. For diagnostics and analysis, special software has been introduced that greatly facilitates administrators to perform numerous actions related to the maintenance of the computer and information environment of Ukrpatent.

In particular, the Zabbix 3.4 version of the monitoring system is used, which monitors the status of various services, servers and

network equipment, as well as controls stability of the monitoring parameters. In the event of their deviation from the set limits, an automatic correction or notification to the administrator is brought into action.

Another Spiceworks system includes the HelpDesk functions and inventory capabilities,

implements automatic processing of user requests, allows for keeping track of their history, analyzing the cyclicity of problems, preventing their occurrence and receiving up-to-date information about the current status of software and hardware.

5 Legal Support in the Field of Intellectual Property Rights Protection



5.1. Regulatory and Methodological Support in the Field of Intellectual Property Rights Protection

Over the course of 2018, Ukrpatent participated in legislative work within its competence. The relevant comments and proposals to draft laws of Ukraine that are under consideration in the Verkhovna Rada of Ukraine were processed and submitted, in particular:

"On amending specific legal acts of Ukraine concerning the improvement of legal protection of geographical indications" (Reg. No. 6023),

"On amending specific legal acts of Ukraine concerning the improvement of legal protection of inventions and utility models" (Reg. No. 7538),

"On amending specific legal acts of Ukraine concerning the improvement of intellectual (industrial) property rights protection" (Reg. No. 5699),

"On amending specific legal acts of Ukraine concerning the improvement of protection of

the topographies of semiconductor products" (Reg. No. 5694).

In 2018, to improve legal regulation in the field of industrial property rights protection and to improve the quality of examination of applications, new editions of the following documents were prepared: the Rules for Drafting, Filing and Examination of a Trademark Application (International Registration), the Rules for Drafting, Filing of a Patent Application and a Utility Model Application, the Rules for Examination of a Patent Application and a Utility Model Application, the Rules for Examination of an Industrial Design Application.

Ukrpatent carried out the activities aimed at improving the legal protection of geographical indications in Ukraine, in particular, the lists of EU geographical indications protected in Ukraine under the Association Agreement were ready for updates and upgrades, to inform the public of the amendments to Annexes XXII-C and XXII-D to the Association Agreement and to

implement the procedure of filing an opposition by interested parties against the registration of new EU geographical indications, as well as to recognize the geographical indications of Ukraine throughout the European Union, the information on such geographical indications and other informational and analytical materials on the protection of geographical indications in Ukraine were prepared.

In 2018, Ukrpatent performed activities related to improvement of methodological support of examination. Thus, in the reporting year, the Order of Ukrpatent approving the list of information base for examination of applications for trademarks and service marks (as of January 22, 2018 No. 18) was issued; the Guidelines on specific matters of examination of applications for trademarks and service marks were amended; the forms of reports and opinions related to qualified indications of origin of goods were improved, as well as the forms of notifications on fees and duties payment, etc. To comply with the Law of Ukraine "On Protection of Personal Data", the publication procedure of data on applications for trademarks and service marks was changed and the revised Procedure for Data Publication on Trademark Applications in the Internet was approved as such.

To encourage the broadcasting companies to follow the current Ukrainian legislation, regulating the issues of sponsorship with the use of trademarks and service marks under which alcoholic beverages are produced, Ukrpatent took part in drafting the Recommendations of the National Television and Radio Broadcasting Council of Ukraine on Sponsoring with Use of Trademarks under which Alcoholic Beverages are Produced.

In the reporting year, Ukrpatent provided more than 500 legal consultations, opinions and legal advices to individuals or legal entities regarding various aspects of the acquisition and protection of industrial property rights.

In 2018, steps were taken related to the fulfillment of the commitments under international treaties on legal protection of intellectual property, in particular:

- a set of documents on amending the texts of certain international treaties administered by WIPO, was prepared in accordance with current national legislation;

- the information on foreign countries' requests as to the list and amount of fees paid by prospective applicants for the international search and international preliminary examination that is performing by Ukrpatent was provided;

- the documents were processed along with the provided proposals for the Draft Consolidated Agenda of the Fifty-Eighth Series of Meetings of the Assemblies of the Member States of the World Intellectual Property Organization (WIPO Document A/58/1 PROV.2), the documents specified in the List of Documents prepared by the Secretariat on the Agenda Items (WIPO Document A/58/2 PROV.1) were processed and proposals were prepared relative to the contents of the general statement for the Ukrainian delegation speech at this event based on the results of the participation of Ukrainian representatives in the work of the WIPO Committees and Working Groups;

- the analysis of legal and regulatory framework of the Commonwealth of Independent States (CIS) was conducted, and a substantiated stance was provided on the expediency of suspension, for Ukraine, of the international treaties on intellectual property issues concluded within the framework of the CIS;

- the analysis of new Rules 27bis, 27ter and 40(6) of the Common Regulations under the Madrid Agreement Concerning the International Registration of Marks and the Protocol Relating to that Agreement which entered into force on February 1, 2019 was carried out and the draft of the corresponding notification from Ukraine was prepared.

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

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

In 2018, the Appeals Chamber was made of 32 Ukrpatent specialists, including 12 specialists processing the oppositions against decisions on invention and utility model applications, 20 specialists processing oppositions against decisions on industrial design applications as well as requests to declare a mark to be well-known in Ukraine.

In 2018, a total of 153 oppositions against decisions on applications were processed, including 102 oppositions filed in 2018 and 51 oppositions – in previous years (see table 5.1).

Table 5.1. Oppositions filed by industrial property rights, 2014-2018

Industrial property rights	2014	2015	2016	2017	2018
Total, including	87	95	119	103	102
Inventions	11	10	15	11	8
Utility models	5	–	4	1	–
Industrial designs	–	–	1	–	–
Trademarks and service marks	71	85	99	91	94

To provide support for processing oppositions and applications:

- the Appeals Chamber boards held 252 sessions,
- 1771 procedural documents were drafted including the instructions of the MEDT, records of hearings, notices, letters, etc.,
- a total of 93 Orders of the MEDT on the approved decisions and the appropriate texts of

such decisions were prepared and provided for release on the website of the MEDT.

In 2018, a total of 84 decisions of the Appeals Chamber were approved, in particular, 38 decisions were to fully satisfy the opposition, 2 decisions – to partially satisfy the opposition and 44 decisions were to dismiss the opposition (see table 5.2, figure 5.1).

Table 5.2. Appeals Chamber decisions on oppositions, 2014-2018

	2014		2015		2016		2017		2018	
	qty	%	qty	%	qty	%	qty	%	qty	%
Decisions made, incl.	128	100	81	100	104	100	103	100	84	100
to fully satisfy	33	25.8	38	46.9	69	66.3	64	62.1	38	45.2
to partially satisfy	2	1.6	5	6.2	2	2.0	4	3.9	2	3.6
to dismiss	93	72.6	38	46.9	33	31.7	35	34.0	44	52.4

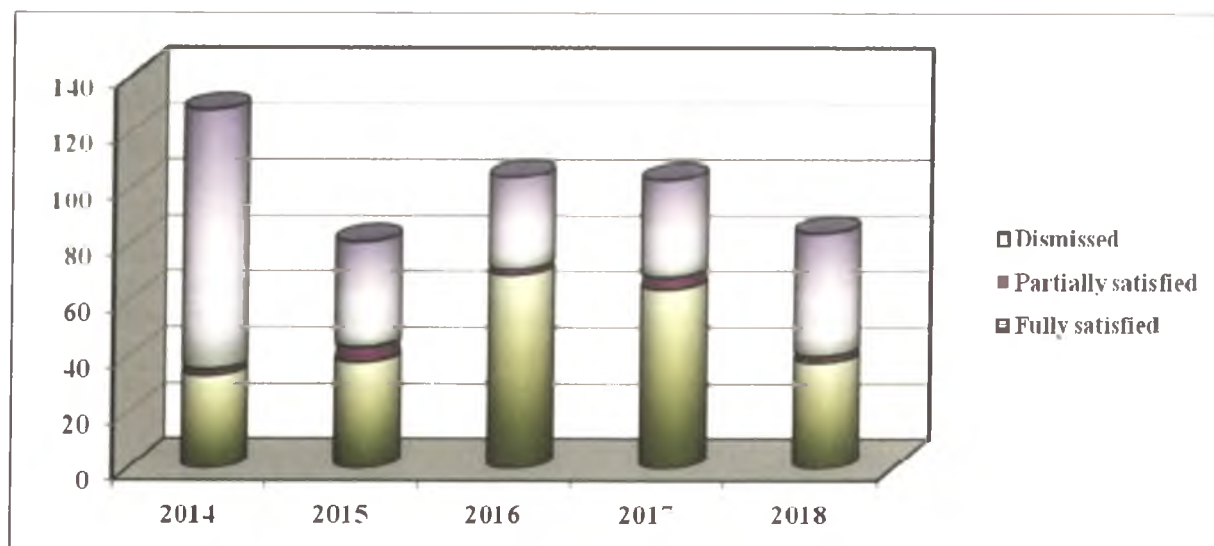


Figure 5.1. Opposition outcomes, 2014-2018

A total of 21 applications on declaration of a mark to be well-known were processed, including 13 applications filed in 2018, 8 applications – in previous years. A total of 8 decisions on satisfy

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

Table 5.3. Processing of requests to declare a mark to be well-known in Ukraine, 2014-2018

	2014	2015	2016	2017	2018
Number of Requests	4	12	30	20	13
Decisions made, incl.	10	6	12	23	9
<i>decisions to satisfy</i>	10	6	12	20	8
<i>decisions to dismiss</i>	–	–	–	3	1

5.3. Assistance in Intellectual Property Rights Enforcement

In 2018, Ukrpatent representatives took part in processing of more than 500 cases on titles of protection for intellectual property rights, as well as on the MEDT decisions. A total of 516 procedural documents were prepared related to these proceedings, Ukrpatent representatives took part in 1664 court sessions, and 261 court decisions were processed.

A total of 203 proceedings were commenced in 2018, including 145 proceedings related to trademarks and service marks, 20 proceedings – to inventions, 21 proceedings – to industrial designs and 17 proceedings – to utility models. According to jurisdictions, these proceedings were as follows:

- 92 cases were processed in economic courts,
- 78 cases – in civil courts,
- 33 cases – in administrative courts.

Among 145 cases related to trademarks and service marks, 43 proceedings covered early termination of the effect of titles of protection. The rest of 102 claims related, in partic-

ular, to the invalidation of titles of protection and decisions of the MEDT.

To comply with the court decisions, measures were taken to the enforcement of 91 statements of claim, to cancel the enforcement of 28 claims, and to comply with 75 court decisions. A total of 568 documents on the enforcement of court judgments were sent.



In 2018, 40 trademark certificates, 11 industrial design patents, 8 utility model patents and 1 patent for invention were invalidated by court decisions (Figure 5.4).

Table 5.4. Titles of protection invalidated by court decision, 2014-2018

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

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

In 2018, Ukrpatent processed 255 appeals, including 183 appeals from individuals,

28 appeals from legal entities and 44 appeals from governmental authorities (see table 5.5).

Table 5.5. Appeals received by Ukrpatent by persons categories and types of appeals, 2018

Persons categories	Complaints	Applications	Information requests	Total
Total, including	7	119	129	255
individuals	7	99	77	183
legal entities	–	20	8	28
governmental authorities	–	–	44	44

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

A total of 100 appeals (39%) were processed for the period of no more than 5 days, 50 appeals (20%) – up to 10 days, 48 appeals (19%) – up to 15 days, and 56 appeals (22%) were considered for the period of no more than 30 days.

Compared to 2017, the total number of appeals received by Ukrpatent in 2018 decreased by 5%.

Out of the total number of public appeals processed in 2018, 49% of appeals (complaints and applications) are from individuals and legal entities, 51% – information requests from governmental authorities and lawyers requests (see figure 5.2). It is worth noting that in 2017-2018 the number of applications declined a little (by 5.7%) but the number of information requests increased to a great extent, on average by a factor of 3.6.

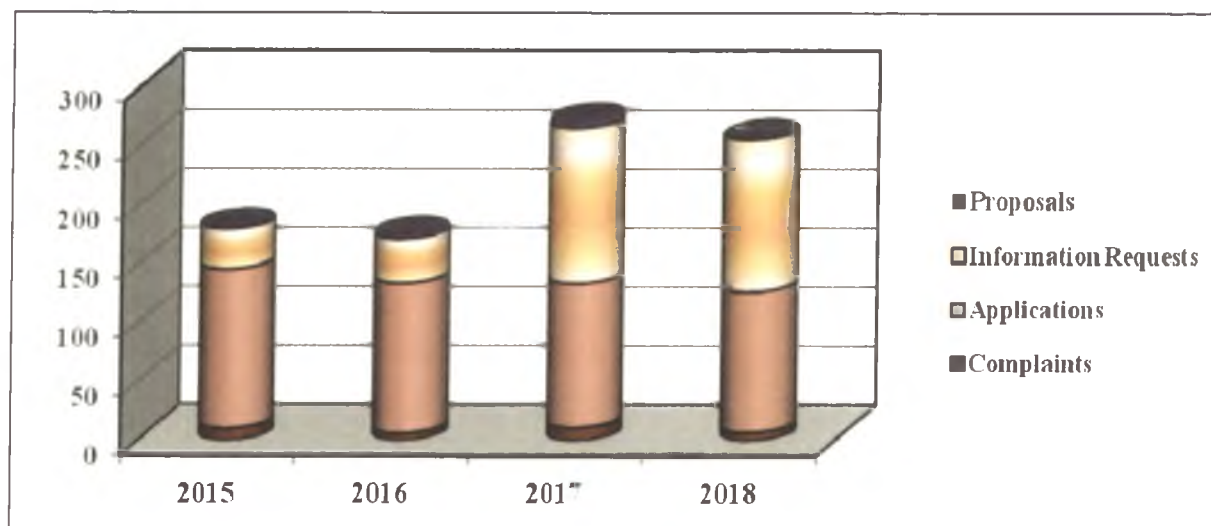


Figure 5.2. Appeals processed by Ukrpatent, 2015-2018

The distribution of information requests by the parties of such appeals shows that 53% of the total number of requests that were processed in 2018 were lawyers requests for information on registered intellectual property rights

and proceedings on applications, a total of 34% of requests were received from governmental authorities, 13% comprise information requests and public information requests (see figure 5.3).

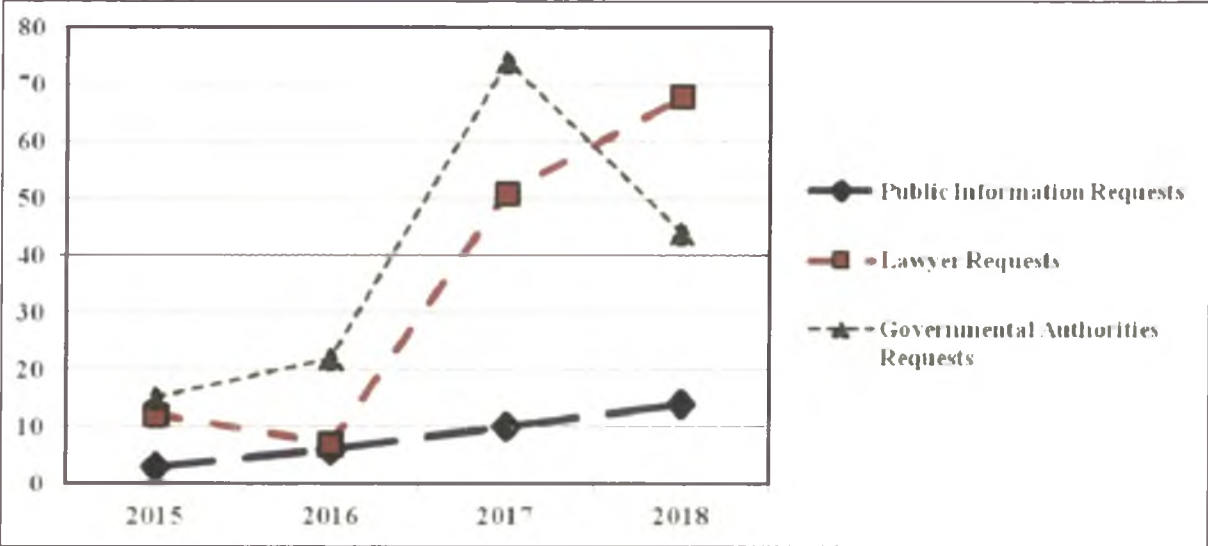


Figure 5.3. Information requests processed by Ukrpatent, 2015-2018

Ukrpatent within its competence provided the information from the state registers of IPR titles of protection to satisfy information requests received from governmental authorities in 2018, as well as on legal provisions regulating, in particular, relations on matters specific to acquisition of rights, disposition of rights and liability for infringement of intellectual property rights.

The main issues raised in the appeals were those related to the provision of informa-

tion on the procedure of acquisition of intellectual property rights and utilization of inventions (a total of 21 appeals), on the procedure of examining applications for industrial property rights and oppositions against decisions on applications (a total of 49 appeals), on the industrial property rights enforcement and protection (a total of 28 appeals), as well as the provision of reference information on industrial property rights (a total of 157 appeals).

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

6.1. Internet Resources of Ukrpatent

In 2018 the works on updating and improving the official website of Ukrpatent www.ukrpatent.org continued. Over 400 information items were placed on its pages in Ukrainian and English. Static and dynamic sections were updated by topical information on the events which took place in the state system of intellectual property legal protection throughout the year. Over 500 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, Patent Information Collections, For Users of Patent Information, Receiving Electronic Trust Services, etc.) were regularly updated.

In the reporting year, the Ukrpatent website attendance ratio has exceeded 630 thousand users which is 83 thousand more than in the previous year. The total number of the navigated web-resource pages exceeded 1.5 million (see figure 6.1). The website of Ukrpatent was the most popular among Ukrainian citizens (88% of the total number of visitors). Information on foreign countries the visitors to the website is presented in figure 6.2.

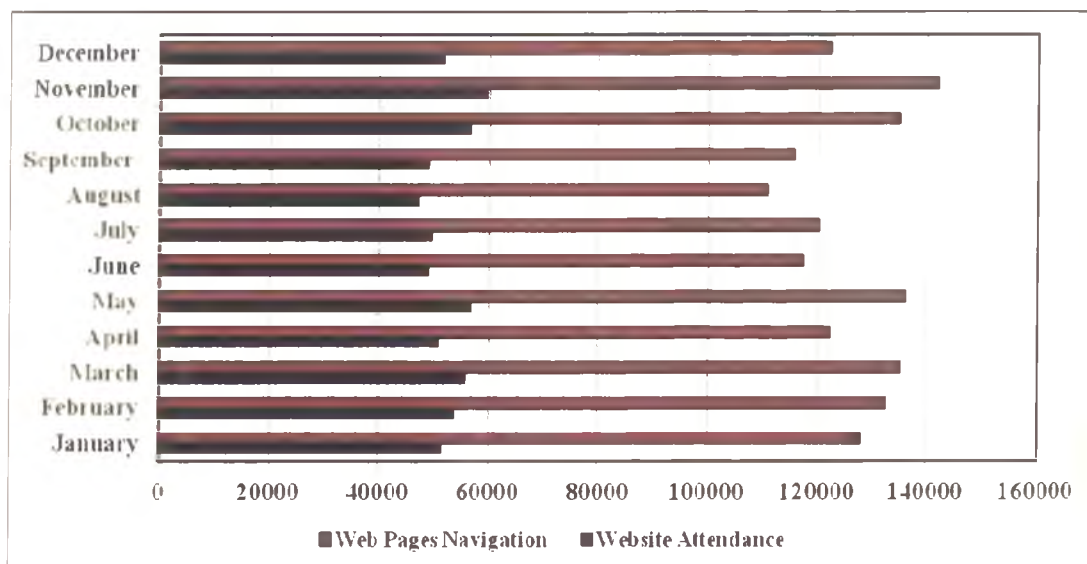


Figure 6.1. The number of visitors to the official website of Ukrpatent (www.ukrpatent.org), 2018

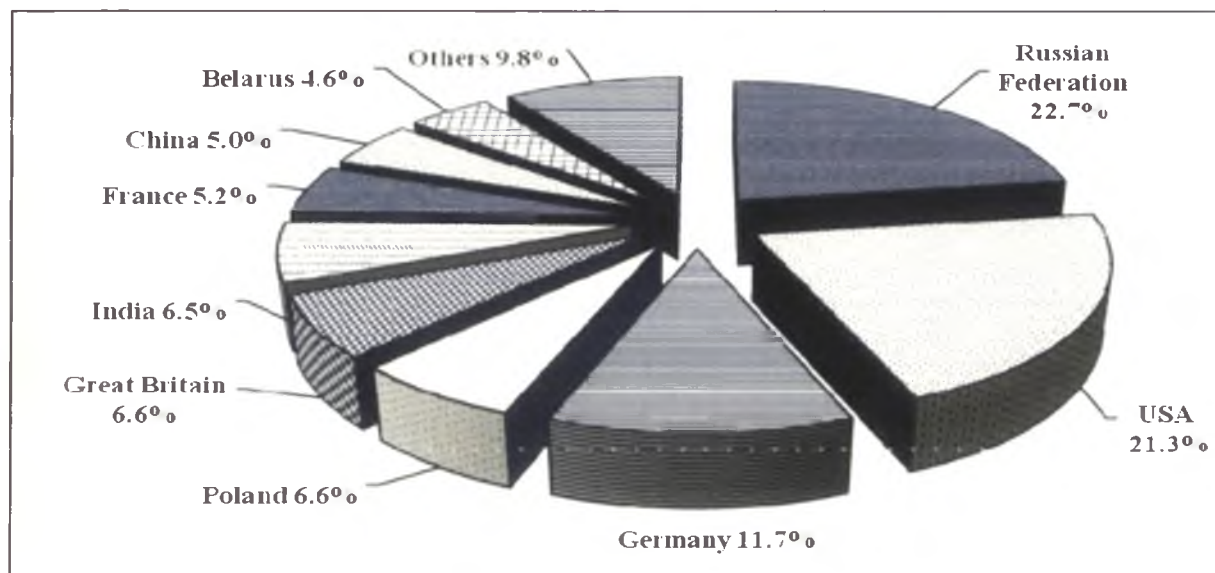


Figure 6.2. Foreign countries the visitors to the official website of Ukrpatent (www.ukrpatent.org), 2018

In 2018, the information content development and support of other web-resources were carried out, namely those of the Department of Patent Information Services, Consultation and Innovation Activity Promotion (iii.ua), the Industrial Property Internet Exchange (exchange.iii.ua) and the Factory of Ideas (fabrikaidei.iii.ua).

The innovative information resource the Industrial Property Internet Exchange provides information on patented inventions, utility models, industrial designs, trademarks, 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 is to identify, support and promote the development of the gifted school, college and university students, young scientists, inventors and researchers.

The indicated Internet resources provide the necessary information to users about partners and investors, relevant grants, competitions, conferences, research programs.

In the reporting year, 138 and 205 projects were produced, placed and updated at the Industrial Property Internet Exchange and at the Factory of Ideas respectively.

In 2018, over 140 publications, more than 300 photos and illustrations were posted on the official page of Ukrpatent at the Facebook social network.

Over the course of 2018, in order to keep the Ukrpatent website up-to-date and informative, all sections and subsections dedicated to patent information, documentation and standardization were regularly monitored and information was updated in the following subsections:

- WIPO Standards, Official Bulletin "Industrial Property", Specifications to Patents of Ukraine for Inventions and Utility Models, International Classifications, Public Patent Documentation Collection, as well as in the General Information, Patent Information and Documentation News and EPO Learning and Reference Materials Available Free of Charge subsections under the section For Users of Patent Information;

- the list of IRS for the IP International Classifications has been updated in the Databases and Information and Reference Systems subsection ;

- 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

Ten articles were prepared within the framework of the cyclus of thematic publications about prominent people, memorable dates and events and published in the section Articles and Materials of Events.

6.2. Interactive Databases and Information and Reference Systems

Completeness, reliability, relevance and compliance of the provided information with recommendations of WIPO Standards are the major requirements to databases as part of the world Internet resources in the field of intellectual property.

Nine databases (DB) and six information and reference systems (IRS) are in operation at the Ukrpatent website for industrial property rights which are provided legal protection 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;
- Automated Database of the UEFA and its Commercial Partners Intellectual Property;
- IRS "Invention and Utility Model Applications Prosecution Status";
- IRS "Information on Patents of Ukraine for Inventions (Utility Models) being Invalidated or Expired";
- IRS "Information about Proceeding State of Applications for Trademarks and Service Marks";
- IRS "Information on Certificates of Ukraine for Trademarks and Service Marks being Terminated or Invalidated";
- IRS "Industrial Design Applications Proceeding State";
- IRS "Information on Patents of Ukraine for Industrial Designs being Invalidated or Expired".

In order to improve these resources, in particular, the information content, authenticity and appropriate quality of data concerning IPR when published electronically, their constant monitoring is carried out, as the result of which improvement measures for all language versions were realized for the following databases and information and reference systems in 2018:

- Electronic Version of the Cumulative Official Bulletin "Industrial Property", Inventions (Utility Models) in Ukraine, Industrial Designs Registered in Ukraine, Information about Well-Known Marks in Ukraine;

- Information about Proceeding State of Applications for Trademarks and Service Marks, Industrial Design Applications Proceeding State, Invention and Utility Model Applications Prosecution Status, Information on Patents of Ukraine for Inventions (Utility Models) being Invalidated or Expired.

In addition, four IRS for the IP International Classifications are in operation at the Ukrpatent website, information on which is provided in section 3.2.

6.3. Official and Information Publications

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



The statistical review "Industrial Property in Figures. Performance Indicators of the Ministry

of Economic Development and Trade of Ukraine and the State Enterprise "Ukrainian Intellectual Property Institute" 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 2018 are presented.

Table 6.1. Publications on industrial property rights, 2018

Type of Publication	Number of Publications
Applications for inventions accepted for examination	4,021
Patents of Ukraine for inventions	2,469
Patents of Ukraine for utility models	8,620
Patents of Ukraine for industrial designs	2,297
Certificates of Ukraine for trademarks and service marks	15,918
Well-known marks in Ukraine	11
Applications for the registration of qualified indications of origin of goods and/or the right to use qualified indications of origin of goods accepted for examination	2
Registration of qualified indications of origin of goods	3
Registration of the right to use qualified indications of origin of goods	4
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	7,332

6.4. The Public Patent Documentation Collection

In order to satisfy public needs for patent information in Ukraine necessary for study and analysis in the process of creation, legal protection and use of IPR, the Public Patent Documentation Collection (PPDC) functions within the structure of the Patent Information Services, Consultations and Innovation Activity Promotion Department.

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 was supplemented, in particular, with 443 optical disks. As of December 29, 2019, in total the PPDC on optical media contained about 20.7 thousand copies of official bulletins and more than 33.9 thousand discs with patent documentation.

The PPDC is also supplied with scientific and technical literature, methodical, reference-infor-

mation publications and periodicals. In April of 2017 a depository library of WIPO documents with free of charge access was opened as a part of the PPDC.

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 Patent Information Services, Consultations and Innovation Activity Promotion Department (<http://iii.ua/>).

6.5. Distribution of Publications of the State System of Intellectual Property Rights Protection

In the reporting period, the distribution of publications of the state system of intellectual property legal 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 Official 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 registries of free-of-charge distribution approved by the MEDT.

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

The data on patent information products is available on the website of Ukrpatent in the Patent Information Products on Optical Carriers section.

In table 6.2 the figures on distribution of national patent information products on optical carriers in 2018 are presented.

Table 6.2. Distribution of patent information products on optical carriers, 2018

Patent information product	Free-of-charge distribution				Paid distribution
	Ukrainian organizations		IP offices or organizations		
Yearly sets					
CD-ROM "Official Bulletin "Industrial Property"	1 half-year	2 half-year	1 half-year	2 half-year	
	40	31	9	7	1
CD-ROM "Inventions in Ukraine"	28	23	4	4	-
CD-ROM "Trademarks and Service Marks Registered in Ukraine"	2	1			3
CD-ROM "Industrial Designs Registered in Ukraine"					1
CD-ROM "Official Bulletin "Copyright and Related Rights"	28	12			
Retrospective accumulative discs					
DVD "Trademarks and Service Marks Registered in Ukraine" (1993-2018)	-		-		2

6.6. Provision of Patent Information Services and Consultations in the Field of Intellectual Property

Over the course of 2018, a total of 9,950 agreements were concluded by the Patent Information Services, Consultations and Innovation Activity Promotion Department of Ukrpatent in accordance with the current procedure in order to meet the needs of legal entities and individuals in services related to acquisition and utilization of intellectual property rights (IPR).

In general, in the reporting year, a great part of concluded contracts was a matter of 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;
- conducting name searches and patent searches by subject matters.

In 2018, advisory services on general and informative issues were provided free of charge.

In general, for the period under review, 39,210 requests were received by the Patent Information Services, Consulting and Promotion of Innovative Activities Department of Ukrpatent, among which are:

- 37,312 – over the telephone;
- 1,898 – personal reception of visitors.



Free consultations on the most common issues were provided every day, namely:

- issues in reference to the procedure for obtaining legal protection for IPR and payment of fees for actions related to the protection of IPR, above all for trademarks and service marks;
- issues related to patent and information searches in Internet databases and information and reference systems.

In the reporting period, pursuant to the inquiries of the Ministry of Justice of Ukraine, 2,761 name (company) patent searches of data on IPR in Ukraine were carried out free of charge.

In the reporting year, practical, methodological assistance was provided to applicants and owners of titles of protection for IPR as to commercialization of intellectual property and related to the disclosure of intangible assets usage and taxation of the related transactions in the balance sheet.

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



Ukrpatent, as agreed by the MEDT, participates in the events of international cooperation in the intellectual property sphere.

7.1. Cooperation with the World Intellectual Property Organization

Over the reporting year, specialists of Ukrpatent took part in the WIPO events and closely followed the processes of adoption of important decisions to timely respond and ensure Ukraine's participation in the realization of the WIPO policy with due consideration of the national interests of our country. To this end, Ukrainian specialists regularly take part in the work of the WIPO decision-making bodies as well as its principal committees and working groups.

An important event at the beginning of the year on January 24-28, 2018 was the official visit to Ukraine of John Sandage, Deputy Director General of WIPO, Patents and Technology Sector,

whose area of responsibility includes managing the International Patent System under the Patent Cooperation Treaty (PCT), functioning of the WIPO Arbitration and Mediation Center and supporting for the Standing Committee on the Law of Patents (SCP) as well as coordination the provision of legal advice in this area to different countries, and Evgeniy Sesitsky, Program Officer, Section for Caucasian, Central Asian and Eastern European Countries Section, Department for Transition and Developed Countries (TDC). This event took place on the occasion of reappointment of Ukrpatent as the International Searching Authority and the International Preliminary Examining Authority until December 31, 2027.

Within the visit to Ukrpatent, the WIPO delegation held the meeting with the management and patent examiners of Ukrpatent where a significant increase in the number of international searches conducted by Ukrpatent was mentioned.

Also, during the WIPO delegation visit, a round table was held under the auspices of the MEDT with the participation of patent attorneys of Ukraine and representatives of business circles regarding functioning of the PCT system, acting of Ukrpatent as ISA/IPEA, effective technology transfer and inventiveness support, national legislation improvement, foreign patenting promotion, mechanisms for effective resolution of domain disputes in the international format.

In February 2018, specialists of Ukrpatent took part in the annual meeting of the ISA and

IPEA Quality Subgroup as well as the Meeting of International Authorities under the Patent Cooperation Treaty (PCT/MIA). It should be mentioned that starting from 2014, when the office received the ISA/IPEA status, specialists of Ukrpatent take part in the meetings annually. The participation in these events became of prime importance after February 5, 2016 when Ukrpatent began to act as ISA/IPEA.

During 2018, 37 specialists of Ukrpatent participated in the meetings of the WIPO Committees and Working Groups (see table 7.1).

Table 7.1. WIPO events attended by specialists of Ukrpatent

Event Title	Event Venue and Date
Committee of Experts of the IPC Union: Fiftieth Session Task Force on the IPC issues regarding the Management System of the IPC reclassification Working Lists	Geneva Swiss Confederation February 5-10, 2018
Meeting of International Authorities under the Patent Cooperation Treaty: Twenty-Fifth Session. ISA and IPEA Quality Subgroup	Madrid Kingdom of Spain February 19-23, 2018
Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore: Thirty-Fifth Session	Geneva Swiss Confederation March 19–23, 2018
IPC Revision Working Group: Thirty-Ninth Session	Geneva Swiss Confederation April 23-27, 2018
Standing Committee on the Law of Trademarks, Industrial Designs and Geographical Indications: Thirty-Ninth Session	Geneva Swiss Confederation April 23-26, 2018
Committee of Experts of the Nice Union: Twenty-Eighth Session	Geneva Swiss Confederation April 30-May 4, 2018
Program and Budget Committee: Twenty-First Session	Geneva Swiss Confederation May 14-18, 2018
Patent Cooperation Treaty (PCT) Working Group: Eleventh Session	Geneva Swiss Confederation June 18-22, 2018
Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore: Thirty-Sixth Session	Geneva Swiss Confederation June 25-29, 2018
Standing Committee on the Law of Patents: Twenty-Eighth Session WIPO Information Session on Patents and Standards	Geneva Swiss Confederation July 9-13, 2018
Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore: Thirty-Seventh Session	Geneva Swiss Confederation August 27-31, 2018
Assemblies of the Member States of WIPO: Fifty-Eighth Series of Meetings	Geneva Swiss Confederation September 24-October 2, 2018
Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore: Thirty-Eighth Session	Geneva Swiss Confederation December 10-14, 2018

One of the WIPO's priority activities is the organization of training in the intellectual property sphere aimed at raising the professional level of diverse target audiences. WIPO traditionally invites Ukrainian specialists to participate in regional seminars, training courses and programs on intellectual property matters.

Year by year, on a regular basis, WIPO arranges a series of free virtual seminars (webinars) on issues related to the PCT system. The purpose of these webinars is to inform users around the world on the latest advances, changes and updates in the PCT system. In the reporting year, about 30 specialists of Ukrpatent participated in these WIPO webinars.

WIPO, in cooperation with the MEDT and Ukrpatent, organized and conducted a series of regional research and practice events in Ukraine in the intellectual property sphere.

In April 2018, a training workshop was organized in Kyiv on the creation of a network of Technology and Innovation Support Centers in Ukraine. The purpose of the event was to familiarize with the WIPO's project to assist Member States in establishing a national network of Technology and Innovation Support Centers and discuss further steps to implement such a project in Ukraine. The speakers at the seminar were Andrew Czajkowski, Head of WIPO Innovation and Technology Support Section, and Mussadiq Hussain, Program Officer, WIPO Innovation and Technology Support Section.

In June 2018, the National Patent Drafting Workshop was held. Among the audience of the event were the Ukrainian intellectual property experts: lawyers, patent attorneys, representatives of industrial enterprises, educational and research institutions from different regions of Ukraine. The focus of the workshop was on drafting and filing of patent applications, keeping records on the filed applications, legal requirements for patentability, etc.

In September 2018, the Joint Operational Mission of WIPO and the Federalist Society for Law and Public Policy Studies of the USA worked in Kyiv to assess needs of Ukraine for the training of judges on intellectual property issues due to the creation of a specialized intellectual property court.

In 2018, Ukrainian specialists also participated in the WIPO Task Forces. For many years, Ukrpatent has been cooperating with the Committee on WIPO Standards (CWS), which sticking to the

principle of highest compliance with modern requirements, focuses on the harmonization of industrial property information and, accordingly, the development of existing standards as well as the creation of new, most progressive ones for unified processing and sharing information regarding inventions, utility models, trademarks and industrial designs.

Taking into account that WIPO standards are an integral part and an important instrument of the global patent information system, Ukrpatent specialists are actively involved in the implementation of a number of CWS projects in the main areas of its activities, primarily as members of its Task Forces, providing preparation and submission the relevant proposals and recommendations for Task Forces consideration as well as providing all the necessary information under various types of questionnaires.

In particular, in 2018 Ukrpatent specialists as members of five CWS Task Forces were involved, via the Wiki on-line forum, in the development of new WIPO standards, their updates as well as in other CWS projects, namely:

- drafting Recommendations for the Exchange of Industrial Design Legal Status Data and updating new WIPO Standards – ST.27, ST.37 та ST.26;
- providing the necessary support and updating Section 7 of the WIPO Handbook on Industrial Property Information and Documentation as well as working out recommendations for systems providing access to publicly available patent information of industrial property offices.

Regular processing of documents prepared by Task Forces and approved by the CWS at its annual sessions provides systematic tracking of current trends in the patent documentation and standardization sphere.

Also, in the framework of international cooperation with the CWS, Ukrpatent prepared and, in accordance with the established procedure, uploaded to the WIPO Special Wiki-page (ATR Wiki Space) the Annual Technical Information Reports on industrial property information for 2017 in English, namely:

- Annual Technical Report on Patent Information Activities;
- Annual Technical Report on Trademark Information Activities;
- Annual Technical Report on Industrial Design Information Activities.

7.2. Cooperation with the European Union

In April 2018, an international expert of the European Union (EU) Project "Support to the Development of a Geographical Indications System in Ukraine" Dr. Rudolf Schmidt visited Ukrpatent. The main subject of the discussion was the peculiarities of the process of registration of geographical indications in Ukraine, the differences between the systems of registration of geographical indications in the EU and Ukraine as well as further ways of developing the national registration system.

In October 2018, a working meeting of specialists of Ukrpatent with specialists of the EU Project on Geographical Indications took place. The EU Project was presented by its senior expert Jorge Goldman and the national experts Olena Nazarenko and Yaroslav Andreiev. In the course of the meeting, issues on the use of geographical indications that identify goods originated from the temporarily occupied territory of the Crimea were discussed. The problems of recognition of geographical indications registered by the European Union; coexistence of indications and trademarks and service marks; monitoring of compliance with quality standards by the relevant authorities were considered. Particular attention was paid to the state enterprises intellectual property and to conflict situations arising from the simplified re-registration of intellectual property rights.



The continuation of the cooperation of specialists of Ukrpatent with experts of the EU Project on Geographical Indicators took place in December 2018. In the focus of the discussion, as during the previous meeting, was the protection of geographical indications for products for which the place of origin is the Crimea and the prevention of the use of such geographical indications by the

Russian Federation. The key issues were the cooperation of governmental bodies of Ukraine with the relevant EU bodies in the field of registration of geographical indications and their use and further protection. The parties agreed to provide technical assistance and continue cooperation via the active dialogue.

7.3. Cooperation with the European Patent Office

In 2018, bilateral cooperation between Ukrpatent and the European Patent Office (EPO) continued in the sphere of information resource use.

In March 2018, specialists of Ukrpatent took part in the annual meeting for the EPO EPOQUE Net search system users. During the event, issues related to the development and improvement of the European patent network (EPOQUE Net) were discussed, information on innovations as regard to information and technical support and changes to the new version of EPOQUE Net were highlighted that is important in the context of patent information provision of Ukrpatent acting as ISA/IPEA.

Besides, the EPO arranged a series of free virtual seminars (webinars) on patent information issues wherein about 20 specialists of Ukrpatent took part.

7.4. Bilateral Cooperation

In February 2018, a delegation of the Eurasian Patent Office (EAPO) visited Ukrpatent with a working visit. The EAPO delegation got acquainted with the work of the key structural divisions of Ukrpatent, during working meetings with the senior management and leading examiners of Ukrpatent the issues were discussed related to the control and improvement of the examination quality, the peculiarities of e-filing, the stages for processing of applications, the responsibilities sharing and the work load among examiners, professional growth and evaluation of specialists of the examination body, development and improvement of the technical basis, possibilities for patent search, etc.

In a reporting year, the cooperation with the Arab Republic of Egypt in the intellectual property sphere was started. In April 2018, the official delegation of this country visited Ukrpatent – the Minister of Public Enterprise Sector of the Arab

Republic of Egypt, Khaled Mohamed Ali Badawi, the Advisor to the Minister for Investment and Restoration, Osama Mohamed Khalil Ibrahim Ezzo and the Head of the Office of the Minister of Public Enterprise Sector, Dalia Ibrahim Amin Tadros. The Egyptian specialists got acquainted with the work of examiners and main aspects of Ukrpatent's activities and key figures.

In June 2018, the US Patent Attorney registered in the State of Israel, Jerome R. Smith, visited Ukrpatent for sharing experience relating to the practice of patenting inventions in the computer industry and in the biotechnology sphere.

At the end of June 2018, Ukrpatent hosted a delegation from the State Intellectual Property Office of the People's Republic of China (SIPO).



Within the framework of the event, discussions on the organizational principles of the work

of the Chinese office and Ukrpatent, discussion of proposals for further cooperation and sharing experience between the managers of the key units of the national intellectual property offices of China and Ukraine were held.



In September 2018, a working meeting of examiners of Ukrpatent with patent attorneys of Georgia and the European Union took place. The matters were considered on approaches of the European and Ukrainian legislation concerning determination whether the invention subject matter is the object of technology; peculiarities of conducting international searches; areas of the EU Patent Court work and prospects for its creation in Ukraine as well as many other issues that are currently important and interesting for examination procedure.

8

Professional Training and Skills Upgrading. Dissemination of Intellectual Property Knowledge

8.1. Skills Upgrading of Intellectual Property Specialists

In 2018, for skills upgrading on intellectual property matters specialists of Ukrpatent took part in a series of specialized events in the intellectual property sphere which were organized both in Ukraine and abroad.



In 2018, for the purpose of professional development, improvement and dissemination of intellectual property knowledge, specialists of Ukrpatent took part in many specialized events in Ukraine. Those included the Training Workshop "Changes in Tax Legislation. Procedure for Registration of Rights to Real Estate. New Changes in Land Legislation. Practices for Procurement of Goods, Works and Services for Public Funds"; events on the occasion of the opening of the Research Institute "Crop Care Institute"; a round table discussion with the patent attorneys of Ukraine on the draft Law of Ukraine "On Amendments to

Certain Legislative Acts of Ukraine on Improving the Legal Protection of Inventions and Utility Models"; regional training seminar on drafting patent applications; seminars and meetings during the III International Forum "Innovation Market", etc.

In order to improve and update knowledge in the intellectual property sphere in accordance with the requirements of the professional qualification characteristics 28 specialists of Ukrpatent were directed to the Kyiv Institute of Intellectual Property and Law of the National University "Odessa Law Academy" for getting the qualification level "Master" in the field of intellectual property.

During 2018, specialists of Ukrpatent also participated in the following events on patent information activities: the Seminar-Workshop "Normative and Technical Documents on Standardization: Realias, Priority Directions of the National System Development"; the Research and Methodological Seminar "Maintenance of Library Collection in Conditions of the Information Environment Transformation"; the Research and Methodological Seminar "Mission of Libraries in the Cultural and Spiritual Renewal of Ukraine"; the Research and Methodological Seminar "Scientific and Technical Libraries of Ukraine: Development Trends"; the Workshop "New in the Unified Decimal Classification"; the Webinars "Scopus: Content and Key Features" and "Scopus Search: Best Practices"; the School of Experience "Modern Library: Traditions and Innovations"; the International Scientific Conference "Library. Science. Communication"; the Workshop "Using the Latest Technologies when Working with Information Resources", etc.

8.2. Information and Awareness Raising Activity of Ukrpatent

In 2018, a series of awareness raising events among the general public was conducted to facilitate knowledge in the intellectual property sphere, support and encourage inventive and innovative activity.



In 2018, in cooperation with WIPO and MEDT, the regional international seminars were held on the following matters: "Creation of the Technology and Innovation Support Centers Network in Ukraine" and "Issues on Patent Applications Drafting". Among the audience of the event were the Ukrainian intellectual property specialists: lawyers, patent attorneys, representatives of industrial enterprises, educational and research institutions from different regions of Ukraine.

In September 2018, during a ceremonial meeting on the occasion of the Day of Inventor and Innovator held at Ukrpatent, the specialists of the enterprise made a series of reports devoted to the relevant issues of the IP sphere: acting of Ukrpatent as ISA/IPEA, analysis of inventive activity of national applicants, information support of innovation activity, development of electronic document management and information systems of Ukrpatent. In the framework of the event, the holders of the Ukrainian patents for inventions and applicants for international applications, published under the PCT, were awarded by honorary diplomas.

In November 2018, Ukrpatent held the conference "Important Issues in the Context of Industrial Property Rights Acquisition, Protection and Commercialization". Within the framework of the event, the role of Ukrpatent in innovative development of the

state and its work on the international scene as ISA/IPEA were considered. The audience of the conference was made by patent attorneys, lawyers, IP specialists, representatives of scientific-publishing and business circles of Ukraine. Among the raised issues were: the ongoing dialogue with applicants, peculiarities of filing, processing and conducting examination of applications, acquisition and protection of IPR, paperless technologies for cooperation between the applicant and the examination body, etc.

In November 2018, specialists of Ukrpatent joined the International Forum "Innovation Market" – a meeting place for innovators, inventors, manufacturers and vendors of leading innovative technologies, innovation experts, creators of startup projects, business representatives, investment and financial institutions representatives, consultants in the intellectual property sphere. In the exhibition area a stand of Ukrpatent was presented, which was attended by approximately 2.5 thousand visitors in the course of the event. Representatives of Ukrpatent also took an active part in the forum events: conferences, panel discussions, the scientific and practical seminar "Intellectual Property and Innovative Activity", the contest "Marathon of Intellectual Property - IP Marathon 2018", etc.



To support educational activity in the intellectual property sphere, a number of excursions to the Museum of Intellectual Property Legal Protection were arranged for IP specialists, postgraduate students, school and college students, participants of the official foreign delegations, patent attorneys of the USA, Peoples Republic of China, Georgia, Poland, the EU, Ukraine as well as individual visitors. The total number of visitors of the Museum in 2018 exceeded 300 persons.

Annexes

1. Statistics

1.1. Applications for inventions by origin and procedure, 2014-2018

Code	Country	National procedure					PCT procedure				
		2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
	Total	2,675	2,506	2,422	2,494	2,355	2,139	1,991	1,671	1,555	1,613
UA	<i>Ukraine</i>	2,455	2,271	2,230	2,281	2,105	2	2	1	4	2
AT	Austria	5	1	–	–	3	53	41	25	34	29
AU	Australia	1	3	1	–	1	16	12	9	7	8
BE	Belgium	2	2	9	7	1	44	39	39	52	44
BR	Brazil	–	–	2	–	–	4	5	2	2	–
BY	Belarus	8	–	2	6	3	–	2	1	–	1
CA	Canada	1	2	–	2	–	20	13	18	14	10
CH	Switzerland	7	9	7	3	4	258	229	239	198	216
CN	China	14	1	–	1	2	27	24	30	32	37
CY	Cyprus	2	3	1	5	12	3	–	4	–	1
CZ	Czech Republic	2	4	2	1	–	9	15	12	2	7
DE	Germany	28	42	20	25	31	311	260	209	206	249
DK	Denmark	2	5	2	6	9	44	41	26	30	33
ES	Spain	1	1	–	1	2	38	24	24	14	11
FI	Finland	1	–	1	1	2	21	20	13	12	13
FR	France	21	6	8	12	14	114	105	91	71	55
GB	United Kingdom	3	15	13	5	6	92	90	75	70	89
HU	Hungary	–	–	–	–	–	6	7	8	3	8
IE	Ireland	–	2	–	–	2	12	24	9	10	7
IL	Israel	1	1	2	6	3	22	33	24	7	4
IN	India	–	2	2	1	3	13	18	22	13	14
IT	Italy	4	1	2	5	4	56	69	44	42	48
JP	Japan	5	6	4	3	1	100	66	64	56	50
KR	Republic of Korea	2	1	1	3	3	14	19	25	15	19
LU	Luxembourg	–	2	1	1	2	20	25	57	48	59
MT	Malta	–	2	1	–	–	4	3	6	3	2
NL	Netherlands	3	4	3	4	5	64	45	53	43	61
NO	Norway	–	–	–	1	–	7	13	10	11	9
PL	Poland	11	10	8	3	10	26	24	12	21	13
RU	Russian Federation	24	27	23	10	5	31	31	30	49	44
SE	Sweden	4	2	–	1	3	47	38	25	18	28
SG	Singapore	1	–	–	–	2	7	4	7	1	8
SK	Slovakia	–	–	–	11	10	1	2	–	2	–
TR	Turkey	–	1	–	1	1	6	16	12	17	8
US	USA	54	75	64	84	96	621	601	415	429	398
VG	Virgin Islands (Brit.)	1	–	–	1	2	1	1	–	1	1
	Others	12	5	13	3	8	25	30	30	18	27

1.2. Resident applications for inventions by regions of Ukraine, 2014-2018

Region	2014	2015	2016	2017	2018
Total	2,457	2,273	2,231	2,285	2,107
The Autonomous Republic of Crimea	5	7	4	9	5
Vinnytsia	55	50	56	42	36
Volyn	15	14	9	12	12
Dnipropetrovsk	274	226	224	236	224
Donetsk	94	48	56	64	55
Zhytomyr	29	21	26	30	32
Zakarpattia	55	54	36	54	45
Zaporizhia	87	98	99	86	72
Ivano-Frankivsk	51	49	48	41	47
Kyiv Region	76	115	70	94	82
Kirovohrad	7	13	23	28	35
Luhansk	35	19	18	43	17
Lviv	122	95	105	100	97
Mykolaiv	69	34	43	32	24
Odessa	142	165	158	169	142
Poltava	23	27	27	24	27
Rivne	14	11	6	10	6
Sumy	40	35	14	27	28
Ternopil	49	21	14	27	26
Kharkiv	346	344	364	341	282
Kherson	30	16	20	18	13
Khmelnyskyi	12	13	14	36	15
Cherkasy	18	14	36	43	18
Chernivtsi	11	12	10	8	10
Chernihiv	14	9	24	35	21
Kyiv	780	758	727	676	733
Sevastopol	4	5	–	–	1
Not classified	–	–	–	–	2

1.3. Applications for inventions by technology fields, 2014-2018

Technology field	Resident applicants					Non-resident applicants				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Total	2,457	2,273	2,231	2,285	2,107	2,357	2,224	1,862	1,764	1,861
Electrical engineering										
Electrical machinery, apparatus, energy	119	104	117	94	78	49	37	55	38	31
Audio-visual technology	11	11	8	12	15	64	36	5	8	5
Telecommunications	18	20	17	19	8	7	3	3	2	5
Digital communication	6	8	4	11	2	24	23	10	5	12
Basic communication processes	10	9	25	14	9	10	1	3	5	1
Computer technology	28	41	40	59	20	20	26	17	17	23
IT methods for management	4	2	5	6	10	6	6	10	9	10
Semiconductors	15	13	7	7	6	3	1	2	0	1
Instruments										
Optics	11	16	12	9	14	6	3	5	2	2
Measurement	166	160	145	128	137	39	27	18	26	23
Analysis of biological materials	43	70	56	52	42	12	13	10	15	8
Control	47	41	30	26	27	10	10	9	11	10
Medical technology	172	177	209	183	172	42	49	42	29	41
Chemistry										
Organic fine chemistry	31	32	50	65	38	268	238	212	181	180
Biotechnology	34	26	23	27	20	163	170	152	181	210
Pharmaceuticals	120	109	143	125	102	454	468	378	348	332
Macromolecular chemistry, polymers	23	17	13	21	13	24	29	17	19	24
Food chemistry	172	124	101	107	95	103	59	48	57	64
Basic materials chemistry	71	70	71	68	49	202	240	173	166	147
Materials, metallurgy	122	98	91	123	70	109	91	95	86	81
Surface technology, coating	47	36	42	36	46	36	33	32	20	31
Micro-structural and nano-technology	11	9	6	15	9	2	2	1	2	2
Chemical engineering	136	110	93	114	85	80	65	44	47	42
Environmental technology	49	62	51	57	33	32	30	18	15	17
Mechanical engineering										
Handling	42	52	59	49	25	88	96	52	85	71
Machine tools	73	66	91	82	51	29	30	27	22	26
Engines, pumps, turbines	99	125	113	108	90	31	38	37	29	20
Textile and paper machines	12	15	10	9	23	17	20	16	22	24
Other special machines	169	137	132	178	163	89	99	66	70	98
Thermal processes and apparatus	70	74	74	57	51	40	32	37	34	30
Mechanical elements	67	64	48	70	51	32	21	24	23	26
Transport	87	80	78	98	64	38	24	35	27	38
Other fields										
Furniture, games	27	28	27	27	15	24	24	26	14	14
Other consumer goods	24	26	22	20	14	108	99	119	87	118
Civil engineering	120	103	119	104	98	90	73	57	52	50
Others and not classified	201	138	99	105	362	6	8	7	10	44

1.4. Patents for inventions by origin, 2014-2018

Code	Country	2014	2015	2016	2017	2018
	Total	3,319	3,014	2,813	2,590	2,469
UA	Ukraine	1,702	1,516	1,277	1,224	1,203
AT	Austria	45	49	38	25	19
AU	Australia	10	9	18	7	8
BE	Belgium	32	51	37	29	26
BG	Bulgaria	2	1	4	1	–
BY	Belarus	1	2	4	1	1
CA	Canada	14	13	12	12	6
CH	Switzerland	139	156	162	153	117
CN	China	24	21	27	20	15
CZ	Czech Republic	5	4	12	10	13
DE	Germany	306	239	239	171	190
DK	Denmark	29	23	28	13	21
ES	Spain	27	24	26	15	13
FI	Finland	22	20	14	15	6
FR	France	127	94	114	83	81
GB	United Kingdom	76	43	58	50	50
HR	Croatia	1	1	–	–	1
HU	Hungary	16	10	6	6	7
IE	Ireland	3	10	8	14	13
IL	Israel	6	5	9	8	18
IN	India	14	10	15	9	9
IT	Italy	56	41	58	44	37
JP	Japan	62	81	67	73	37
KR	Republic of Korea	17	13	12	11	24
LI	Liechtenstein	1	1	2	–	1
LU	Luxemburg	20	16	18	19	32
NL	Netherlands	31	48	33	46	38
NO	Norway	4	11	4	9	5
PL	Poland	13	14	20	20	16
RU	Russian Federation	65	50	56	27	27
SE	Sweden	20	26	26	25	24
SG	Singapore	9	5	10	1	–
SI	Slovenia	4	1	1	–	–
SK	Slovakia	1	1	2	1	–
TR	Turkey	2	3	3	2	10
US	USA	348	368	354	407	377
ZA	South Africa	9	6	6	4	–
	Others	56	28	33	35	24

1.5. Patents for inventions by technology fields, 2014-2018

Technology field	Resident grants					Non-resident grants				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Total	1,702	1,516	1,277	1,224	1,203	1,617	1,498	1,536	1,366	1,266
Electrical engineering										
Electrical machinery, apparatus, energy	84	42	64	56	51	35	25	46	19	28
Audio-visual technology	8	3	3	8	5	19	18	24	33	14
Telecommunications	22	11	12	9	7	6	6	5	2	2
Digital communication	8	5	5	0	4	30	22	14	17	14
Basic communication processes	30	8	5	9	17	3	5	7	4	–
Computer technology	30	32	19	29	33	16	10	15	10	17
IT methods for management	1	1	1	2	1	2	1	5	4	1
Semiconductors	13	9	7	9	4	–	–	3	1	3
Instruments										
Optics	10	6	9	8	9	6	3	3	3	2
Measurement	189	120	105	82	89	28	15	26	17	17
Analysis of biological materials	33	29	34	30	31	5	6	5	4	6
Control	27	20	30	20	22	10	7	6	4	8
Medical technology	103	132	97	91	100	20	27	33	18	24
Chemistry										
Organic fine chemistry	54	40	34	28	29	193	180	176	140	144
Biotechnology	22	25	26	15	16	79	65	77	90	108
Pharmaceuticals	93	89	96	68	77	280	311	284	277	243
Macromolecular chemistry, polymers	15	12	11	10	11	23	15	20	17	13
Food chemistry	105	127	86	91	86	59	59	57	43	37
Basic materials chemistry	52	39	41	42	46	160	150	144	141	131
Materials, metallurgy	103	103	75	81	51	92	77	93	76	53
PatentSurface technology, coating	36	49	36	28	21	23	26	32	30	27
Micro-structural and nano-technology	3	6	5	4	8	1	1	2	1	1
Chemical engineering	83	86	77	60	66	66	59	53	52	28
Environmental technology	30	27	32	29	30	26	27	20	14	12
Mechanical engineering										
Handing	32	23	22	25	26	68	61	43	53	39
Machine tools	62	49	35	42	62	30	25	28	17	20
Engines, pumps, turbines	68	43	53	62	32	29	22	25	15	19
Textile and paper machines	12	9	9	8	5	14	18	15	18	8
Other special machines	140	127	82	86	102	78	64	58	62	56
Thermal processes and apparatus	40	47	39	37	28	40	28	30	25	20
Mechanical elements	36	38	32	34	31	34	20	26	18	17
Transport	50	63	37	38	35	20	22	30	17	27
Other fields										
Furniture, games	9	6	3	13	6	15	21	8	6	9
Other consumer goods	9	10	4	10	4	44	45	76	67	70
Civil engineering	90	80	51	60	58	63	57	47	51	48
Others and not classified	–	–	–	–	–	–	–	–	–	–

1.6. Applications and patents for utility models by origin, 2014-2018

Code	Country	Applications					Patents				
		2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
	Total	9,384	8,619	9,559	9,112	9,120	9,196	8,153	9,044	9,442	8,620
UA	Ukraine	9,244	8,490	9,473	8,977	8,980	9,015	8,035	8,931	9,365	8,471
AE	United Arab Emirates	–	–	–	–	2	–	–	–	–	–
AM	Armenia	–	–	–	1	–	–	–	–	–	–
AT	Austria	1	1	5	–	–	3	1	5	–	–
AZ	Azerbaijan	–	1	–	–	–	–	1	–	–	–
BE	Belgium	–	–	1	–	–	–	–	1	–	–
BG	Bulgaria	2	1	3	1	3	1	–	1	3	–
BR	Brazil	1	–	–	–	–	–	–	–	–	–
BY	Belarus	13	11	14	13	8	10	12	13	10	6
CA	Canada	–	1	–	2	–	–	1	–	–	–
CH	Switzerland	1	8	2	–	2	3	4	4	1	–
CN	China	1	2	1	1	2	2	–	2	2	1
CY	Cyprus	15	21	7	28	56	35	11	19	4	51
CZ	Czech Republic	4	6	–	2	3	2	4	5	1	–
DE	Germany	5	3	3	7	5	16	7	3	2	3
DK	Denmark	–	–	–	–	1	–	–	–	–	1
EE	Estonia	–	1	7	1	2	–	–	2	4	2
ES	Spain	2	1	1	–	1	1	–	1	1	–
FI	Finland	–	–	–	1	1	–	–	1	1	–
FR	France	1	–	–	–	–	2	1	–	–	–
GB	United Kingdom	6	8	6	5	2	1	6	3	2	6
GE	Georgia	2	–	2	1	–	–	–	–	1	1
GR	Greece	–	–	–	–	1	–	–	–	–	1
HU	Hungary	–	–	–	1	–	–	–	–	–	–
IL	Israel	–	–	1	–	4	–	–	–	1	4
IT	Italy	2	–	–	2	1	3	2	–	–	2
KZ	Kazakhstan	–	4	–	1	2	–	1	1	–	2
LB	Lebanon	–	–	–	–	1	–	–	–	–	–
LT	Lithuania	–	1	–	–	2	–	–	1	–	–
LU	Luxembourg	–	–	–	–	1	–	–	–	1	–
LV	Latvia	–	1	–	1	6	–	–	2	–	1
MD	Moldova	–	–	–	–	1	1	–	–	–	–
NL	Netherlands	4	–	–	–	–	–	3	2	–	–
PA	Panama	–	1	–	–	–	1	–	–	–	–
PK	Pakistan	–	–	–	–	2	–	–	–	–	2
PL	Poland	2	2	–	6	3	5	1	2	1	7
RU	Russian Federation	71	39	26	39	21	85	47	34	29	38
SE	Sweden	–	1	–	–	–	–	–	1	–	–
SG	Singapore	1	–	–	–	1	1	1	–	–	1
SK	Slovakia	–	2	2	3	–	5	1	1	3	2
SY	Syria	–	–	–	1	–	–	–	–	1	–
TM	Turkmenistan	–	–	1	–	–	–	–	1	–	–
TR	Turkey	1	8	2	3	1	–	3	3	1	6
TW	Taiwan, Province of China	–	1	–	–	–	–	–	1	–	–
US	United States of America	4	3	2	12	5	2	4	2	8	8
VG	Virgin Islands (Brit.)	–	1	–	3	–	–	1	1	–	4
ZA	South Africa	1	–	–	–	–	–	2	–	–	–

1.7. Applications and patents for utility models by technology fields, 2014-2018

Technology field	Applications					Patents				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Total	9,384	8,618	9,559	9,112	9,120	9,196	8,153	9,044	9,442	8,620
Electrical engineering										
Electrical machinery, apparatus, energy	276	209	232	255	240	282	223	214	249	253
Audio-visual technology	69	57	48	28	49	91	67	45	25	44
Telecommunications	56	53	53	66	70	55	47	63	63	60
Digital communication	18	17	22	22	18	22	15	19	24	16
Basic communication processes	114	135	118	151	136	101	133	82	178	173
Computer technology	140	115	109	141	115	139	108	100	126	118
IT methods for management	34	23	22	19	33	29	17	19	12	21
Semiconductors	65	57	55	55	44	58	53	57	62	43
Instruments										
Optics	55	31	53	30	30	51	43	48	44	31
Measurement	585	555	597	620	548	618	579	547	664	606
Analysis of biological materials	449	469	1366	918	882	348	362	1328	991	973
Control	168	162	189	188	195	175	147	168	203	185
Medical technology	1572	1087	1052	968	891	1394	1328	1033	1138	856
Chemistry										
Organic fine chemistry	117	81	105	95	105	126	87	99	114	126
Biotechnology	90	99	72	102	92	103	93	79	104	92
Pharmaceuticals	601	524	578	548	514	598	509	545	638	520
Macromolecular chemistry, polymers	37	45	38	32	33	62	40	34	45	37
Food chemistry	536	554	495	555	532	554	486	516	562	530
Basic materials chemistry	164	279	250	180	183	178	216	258	211	189
Materials, metallurgy	346	284	225	269	217	380	274	252	251	248
Surface technology, coating	76	79	112	77	76	96	69	94	96	83
Micro-structural and nano-technology	20	21	26	30	24	16	19	15	32	30
Chemical engineering	370	361	335	321	293	393	320	372	304	338
Environmental technology	156	164	159	163	164	160	164	155	181	154
Mechanical engineering										
Handling	199	224	216	258	161	208	192	234	234	210
Machine tools	357	389	395	346	286	369	334	385	398	307
Engines, pumps, turbines	176	187	162	165	134	193	183	175	188	157
Textile and paper machines	121	104	91	74	59	108	111	93	91	47
Other special machines	612	652	658	732	681	694	605	673	708	777
Thermal processes and apparatus	192	190	214	186	160	228	217	213	225	187
Mechanical elements	232	220	237	221	189	235	247	187	257	214
Transport	321	281	306	354	289	365	282	284	326	344
Other fields										
Furniture, games	123	79	93	109	91	143	85	92	111	88
Other consumer goods	104	110	121	97	91	101	104	124	113	95
Civil engineering	455	414	443	486	453	523	394	442	474	468
Others and not classified	378	307	312	251	1032	—	—	—	—	—

1.8. Applications for utility models by regions of Ukraine, 2014-2018

Region	2014	2015	2016	2017	2018
Total	9,244	8,490	9,473	8,977	8,980
The Autonomous Republic of Crimea	34	6	6	22	8
Vinnitsia	819	577	1288	899	844
Volyn	58	67	84	63	63
Dnipropetrovsk	681	660	597	724	694
Donetsk	329	249	240	266	247
Zhytomyr	16	37	48	39	62
Zakarpattia	75	89	63	84	82
Zaporizhia	282	312	317	313	468
Ivano-Frankivsk	131	134	125	109	116
Kyiv Regions	163	185	163	151	173
Kirovohrad	39	56	68	89	69
Luhansk	307	163	142	191	127
Lviv	415	397	404	378	347
Mykolaiv	167	112	97	108	147
Odessa	407	353	345	404	359
Poltava	248	254	276	252	283
Rivne	123	130	162	127	110
Sumy	125	105	124	154	97
Ternopil	232	215	333	279	293
Kharkiv	1212	1241	1299	1281	1248
Kherson	82	100	112	113	90
Khmelnyskyi	105	77	121	79	105
Cherkasy	100	93	123	118	111
Chernivtsi	197	141	224	212	175
Chernihiv	39	25	41	41	42
Kyiv	2844	2708	2667	2472	2613
Sevastopol	10	3	3	4	2
Not classified	4	1	1	5	5

1.9. Applications and patents for industrial designs by origin, 2014-2018

Code	Country	Applications					Patents				
		2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
	Total	2,664	2,080	2,302	2,480	3,042	2,464	2,521	2,469	2,390	2,297
UA	Ukraine	2,045	1,811	2,016	2,249	2,787	1,780	1,957	2,134	2,113	2,077
AT	Austria	1	–	1	2	7	1	1	–	1	4
AU	Australia	–	1	1	–	5	–	–	2	–	4
BR	Brasilia	5	–	–	1	–	–	–	5	–	1
BY	Belarus	4	5	5	10	4	23	9	2	7	2
BZ	Belize	8	–	–	–	1	137	179	–	–	–
CA	Canada	8	–	1	–	6	–	7	–	1	–
CH	Switzerland	4	3	6	7	2	2	3	5	8	2
CN	China	7	10	4	6	5	9	10	11	8	–
CY	Cyprus	72	34	10	20	18	69	81	19	11	17
CZ	Czech Republic	3	1	–	3	1	–	2	1	2	1
DE	Germany	26	4	5	49	3	9	27	6	12	41
EE	Estonia	–	7	15	–	4	–	–	17	4	–
ES	Spain	2	–	–	2	3	8	3	–	–	2
FI	Finland	–	7	2	4	5	4	–	8	5	1
FR	France	3	5	13	11	16	11	4	12	11	21
GB	United Kingdom	12	7	4	9	15	4	10	7	7	8
GE	Georgia	1	1	–	6	1	1	–	–	2	–
IE	Ireland	3	–	–	5	–	–	–	–	5	–
IL	Israel	6	2	–	–	–	1	5	3	–	–
IN	India	6	4	–	1	1	3	4	6	–	1
IT	Italy	2	7	4	4	5	2	2	5	3	5
JP	Japan	19	23	9	12	21	16	16	33	14	15
KR	Republic of Korea	4	–	2	–	17	65	4	2	–	5
LT	Lithuania	–	1	–	–	1	–	–	1	–	1
LU	Liechtenstein	1	2	1	–	–	–	1	3	–	–
MD	Republic of Moldova	–	1	3	2	–	1	–	1	3	1
NL	Netherlands	19	6	2	–	–	–	19	7	1	–
PA	Panama	154	–	–	4	–	171	–	–	4	–
PL	Poland	7	12	8	8	6	3	5	7	11	1
RU	Russian Federation	176	67	105	43	62	105	121	83	82	56
SE	Sweden	2	2	65	–	3	–	2	14	53	1
SG	Singapore	4	–	8	–	–	4	1	2	4	–
SK	Slovakia	2	–	1	1	–	–	2	–	2	–
TR	Turkey	2	3	1	1	1	8	4	3	2	–
US	USA	47	45	9	20	26	18	30	64	13	20
	Others	9	9	1	0	16	9	12	6	1	10

1.10. Patents for industrial designs by classes of the LCL, 2018

Ranking	Class	Class heading	Patents	
			qty	%
1	9	Packages and containers for the transport or handling of goods	351	15,3
2	19	Stationery and office equipment, artists' and teaching materials	295	12,8
3	8	Tools and hardware	244	10,6
4	32	Graphic symbols and logos, surface patterns, ornamentation	228	9,9
5	12	Means of transport or hoisting	147	6,4
6	15	Machines, not elsewhere specified	114	5,0
7	6	Furnishing	83	3,6
8	23	Fluid distribution equipment, sanitary, heating, ventilation and air-conditioning equipment, solid fuel	83	3,6
9	11	Articles of adornment	79	3,4
10	2	Articles of clothing and haberdashery	69	3,0
11	10	Clocks and watches and other measuring instruments, checking and signalling instruments	55	2,4
12	21	Games, toys, tents and sports goods	53	2,3
13	13	Equipment for production, distribution or transformation of electricity	51	2,2
14	5	Textile piecegoods, artificial and natural sheet material	50	2,2
15	7	Household goods, not elsewhere specified	50	2,2
16	25	Building units and construction elements	50	2,2
17	1	Foodstuffs	49	2,1
18	26	Lighting apparatus	45	2,0
19	24	Medical and laboratory equipment	42	1,8
20	28	Pharmaceutical and cosmetic products, toilet articles and apparatus	27	1,2
21	20	Sales and advertising equipment, signs	25	1,1
22	14	Recording, communication or information retrieval equipment	21	0,9
23	3	Travel goods, cases, parasols and personal belongings, not elsewhere specified	19	0,8
24	29	Devices and equipment against fire hazards, for accident prevention and for rescue	18	0,8
25	22	Arms, pyrotechnic articles, articles for hunting, fishing and pest killing	14	0,6
26	30	Articles for the care and handling of animals	13	0,6
27	27	Tobacco and smokers' supplies	10	0,4
28	16	Photographic, cinematographic and optical apparatus	5	0,2
29	4	Brushware	4	0,2
30	31	Machines and appliances for preparing food or drink, not elsewhere specified	2	0,1

1.11. International registrations under the Hague Agreement by origin, 2014-2018

Code	Country	2014	2015	2016	2017	2018
Total		594	622	623	565	506
UA	Ukraine	3	2	4	2	4
AT	Austria	13	3	10	8	4
BE	Belgium	7	11	8	5	11
BG	Bulgaria	4	9	9	3	8
CH	Switzerland	248	246	187	157	151
CY	Cyprus	–	–	6	13	4
CN	China	–	1	–	–	13
CZ	Czech Republic	5	4	12	14	13
DE	Germany	84	90	55	45	45
DK	Denmark	1	1	5	2	3
EE	Estonia	1	–	5	7	1
ES	Spain	7	9	4	6	5
FI	Finland	8	2	5	5	4
FR	France	62	89	145	119	75
GB	United Kingdom	7	3	8	5	16
GR	Greece	–	–	2	3	–
HR	Croatia	7	3	10	8	6
HU	Hungary	3	1	–	1	–
IT	Italy	26	41	37	35	36
JP	Japan	–	4	5	5	1
KR	Republic of Korea	2	–	2	7	2
LU	Luxembourg	5	2	2	–	2
LV	Latvia	2	–	2	–	1
NL	Netherlands	29	37	19	11	12
NO	Norway	2	4	1	1	2
PL	Poland	16	7	6	18	16
RO	Romania	1	4	3	–	2
RS	Serbia	2	1	–	–	1
SE	Sweden	1	2	5	44	18
SI	Slovenia	1	7	2	6	1
TR	Turkey	18	16	20	10	13
US	USA	4	10	20	15	25
	Others	25	13	24	10	11

1.12. Trademark applications and registrations under the national procedure, 2014-2018

Code	Country	Applications					Registrations				
		2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Total		18,796	24,652	29,600	30,183	30,899	14,698	12,388	13,618	15,248	15,877
UA	Ukraine	15,141	21,245	26,064	26,275	27,329	11,150	9,539	11,007	1,986	13,553
AE	United Arab Emirates	21	21	33	46	40	14	3	19	24	21
AM	Armenia	6	1	7	14	8	7	3	3	3	3
AR	Argentina	2	8	2	1	3	10	3	4	4	3
AT	Austria	35	78	57	67	41	53	34	61	40	60
AU	Australia	12	2	–	5	3	3	3	9	2	1
BA	Bosnia and Herzegovina	1	6	14	–	10	3	1	12	6	2
BE	Belgium	13	42	13	15	19	19	5	34	20	4
BG	Bulgaria	38	10	5	4	12	5	9	26	9	1
BM	Bermuda	2	5	6	–	–	–	2	6	1	6
BR	Brasilia	8	8	7	6	10	7	7	11	2	7
BY	Belarus	54	30	17	24	30	27	24	29	9	17
BZ	Belize	3	9	21	35	16	33	8	8	7	10
CA	Canada	41	24	21	27	51	16	29	27	14	9
CH	Switzerland	270	297	397	256	263	174	179	189	232	210
CL	Chile	5	–	2	1	3	8	3	2	–	2
CN	China	90	73	125	178	226	133	62	44	44	66
CY	Cyprus	535	487	434	644	524	430	373	418	309	288
CZ	Czech Republic	13	27	16	15	9	30	16	9	22	10
DE	Germany	111	95	118	147	134	132	98	71	82	95
DK	Denmark	14	18	11	16	17	33	15	4	12	11
EE	Estonia	11	15	72	36	59	8	9	12	8	63
EG	Egypt	–	2	6	–	2	1	–	6	–	1
ES	Spain	30	7	46	61	38	22	32	8	3	24
FI	Finland	15	11	1	9	4	17	14	6	5	5
FR	France	64	79	76	66	100	55	63	69	49	51
GB	United Kingdom	268	191	211	232	225	215	197	117	164	154
GE	Georgia	31	22	21	15	13	8	21	9	10	8
GR	Greece	3	3	4	5	4	5	2	2	4	–
HK	Hong Kong	30	44	46	45	36	36	44	24	33	15
HR	Croatia	32	8	2	4	4	15	30	5	4	–
HU	Hungary	19	10	3	18	16	8	13	7	3	12
IE	Ireland	26	18	48	21	24	67	22	14	23	15
IL	Israel	23	26	12	23	30	24	14	37	8	7
IN	India	204	230	223	178	122	141	124	125	92	110
IT	Italy	17	16	32	34	25	23	27	5	13	29
JP	Japan	110	100	69	89	81	179	96	92	95	49
KR	Republic of Korea	80	57	104	74	87	59	96	56	38	32
KY	Cayman Islands	8	29	28	30	15	4	5	9	15	16

Code	Country	Applications					Registrations				
		2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
KZ	Kazakhstan	–	3	2	10	4	–	1	–	2	2
LB	Lebanon	1	–	1	–	–	2	1	–	–	1
LI	Liechtenstein	28	16	28	23	20	8	27	4	6	11
LK	Sri Lanka	3	1	4	16	5	6	5	1	2	3
LT	Lithuania	15	19	19	20	36	11	9	14	8	5
LU	Luxemburg	20	9	8	10	15	18	7	14	9	4
LV	Latvia	10	7	8	12	16	3	3	5	10	13
MD	Republic of Moldova	7	2	5	6	10	4	8	1	2	2
MK	The former Yugoslav Republic Macedonia	3	2	3	2	4	1	3	–	1	2
MX	Mexico	6	13	6	8	7	5	6	3	10	3
NL	Netherlands	79	71	84	76	49	68	51	58	47	42
NO	Norway	8	–	1		1	3	5	1	1	–
PA	Panama	26	10	10	5	3	17	14	12	5	2
PL	Poland	54	59	54	64	76	61	44	41	49	40
PT	Portugal	4	6	4	–	1	1	2	6	4	2
RO	Romania	–	8	6	–	2	–	–	–	4	2
RU	Russian Federation	265	127	147	147	138	359	202	108	99	97
SC	Seychelles	2	3	4	2	9	14	26	3	5	–
SE	Sweden	10	12	24	19	16	12	16	13	6	29
SG	Singapore	16	17	30	51	11	7	14	13	14	32
SI	Slovenia	7	–	4	4	12	12	3	3	3	3
SK	Slovakia	7	4	16	14	10	2	2	7	5	16
TH	Thailand	13	9	10	12	7	10	7	13	2	8
TR	Turkey	29	23	49	62	27	39	35	18	18	28
TW	Taiwan	33	21	15	24	20	34	28	20	12	14
US	USA	617	737	560	689	640	689	527	590	465	454
VG	Virgin Islands	73	31	56	55	31	68	52	35	17	40
ZA	South Africa	3		7	3		7	4	2	1	6
	Others	71	88	61	133	96	63	61	37	46	46

1.13. NCL classes specified in trademark applications, 2018

Class index	Class heading	Total number	Resident applications	Non-resident applications
35	Advertising; business management; business administration; office functions	12732 (21,8%)	12004 (23,4%)	728 (10,2%)
41	Education; providing of training; entertainment; sporting and cultural activities	4653 (8,0%)	4360 (8,5%)	293 (4,1%)
5	Pharmaceuticals, medical and veterinary preparations; sanitary preparations for medical purposes, dietetic food and substances ...	3035 (5,2%)	2011 (3,9%)	1024 (14,3%)
30	Coffee, tea, cocoa and artificial coffee; rice, pasta and noodles; tapioca and sago; flour and preparations made from cereals ...	2464 (4,2%)	2202 (4,3%)	262 (3,7%)
42	Scientific and technological services and research and design relating thereto; industrial analysis and industrial research services ...	2338 (4,0%)	2069 (4,0%)	269 (3,8%)
43	Services for providing food and drink; temporary accommodation	2256 (3,9%)	2149 (4,2%)	107 (1,5%)
9	Scientific, research, navigation, surveying, photographic, cinematographic, audiovisual, optical, weighing, measuring, signalling, detecting, testing, inspecting, life-saving and teaching apparatus and instruments ...	2156 (3,7%)	1633 (3,2%)	523 (7,3%)
25	Clothing, footwear, headwear	2080 (3,6%)	1910 (3,7%)	170 (2,4%)
33	Alcoholic beverages, except beers; alcoholic preparations for making beverages	1837 (3,1%)	1624 (3,2%)	213 (3,0%)
36	Insurance; financial affairs; monetary affairs; real estate affairs	1649 (2,8%)	1463 (2,9%)	186 (2,6%)
29	Meat, fish, poultry and game; meat extracts; preserved, frozen, dried and cooked fruits and vegetables; jellies, jams, compotes; eggs ...	1642 (2,8%)	1455 (2,8%)	187 (2,6%)
37	Building construction; repair; installation services	1628 (2,8%)	1503 (2,9%)	125 (1,7%)
44	Medical services; veterinary services; hygienic and beauty care for human beings or animals; agriculture, horticulture and forestry services	1611 (2,8%)	1523 (3,0%)	88 (1,2%)
16	Paper and cardboard; printed matter; book-binding material; photographs; stationery and office requisites, except furniture ...	1535 (2,6%)	1362 (2,7%)	173 (2,4%)
3	Non-medicated cosmetics and toiletry preparations; non-medicated dentifrices; perfumery, essential oils ...	1459 (2,5%)	1087 (2,1%)	372 (5,2%)
38	Telecommunications	1336 (2,3%)	1137 (2,2%)	199 (2,8%)
39	Transport; packaging and storage of goods; travel arrangement	1207 (2,1%)	1095 (2,1%)	112 (1,6%)
32	Beers; non-alcoholic beverages; mineral and aerated waters; fruit beverages and fruit juices; syrups and other non-alcoholic preparations for making beverages	1097 (1,9%)	946 (1,8%)	151 (2,1%)
45	Legal services; security services for the physical protection of tangible property and individuals; personal and social services ...	1007 (1,7%)	921 (1,8%)	86 (1,2%)

Class index	Class heading	Total number	Resident applications	Non-resident applications
11	Apparatus and installations for lighting, heating, cooling, steam generating, cooking, drying, ventilating, water supply and sanitary purposes	789 (1,4%)	650 (1,3%)	139 (1,9%)
28	Games, toys and playthings; video game apparatus; gymnastic and sporting articles; decorations for Christmas trees	771 (1,3%)	647 (1,3%)	124 (1,7%)
31	Raw and unprocessed agricultural, aquacultural, horticultural and forestry products; raw and unprocessed grains and seeds ...	688 (1,2%)	604 (1,2%)	84 (1,2%)
1	Chemicals for use in industry, science and photography, as well as in agriculture, horticulture and forestry ...	654 (1,1%)	482 (0,9%)	172 (2,4%)

1.14. Trademark applications under the Madrid System by origin, 2014-2018

Code	Country	2014	2015	2016	2017	2018
	Total	8,484	7,969	6,005	7,634	7,752
UA	<i>Ukraine</i>	4	5	2	4	1
AE	United Arab Emirates	12	4	6	8	11
AG	Antigua and Barbuda	3	2	–	–	–
AL	Albania	4	2	2	1	–
AM	Armenia	15	7	13	15	20
AR	Argentina	–	–	2	–	–
AT	Austria	178	148	123	141	138
AU	Australia	33	41	35	57	50
AZ	Azerbaijan	3	3	2	3	5
BA	Bosnia and Herzegovina	–	–	2	–	3
BB	Barbados	2	3	–	–	2
BE	Belgium	127	144	97	135	100
BG	Bulgaria	81	61	32	121	85
BM	Bermuda	–	1	3	2	3
BS	Bahamas	1	2	3	–	3
BY	Belarus	116	105	62	106	90
BZ	Belize	10	9	2	4	10
CA	Canada	7	5	5	1	6
CH	Switzerland	652	617	410	501	457
CN	China	535	513	562	890	1182
CO	Colombia	–	–	2	1	1
CU	Cuba	4	–	–	1	3
CW	Curacao	3	5	3	11	5
CY	Cyprus	60	84	59	69	55
CZ	Czech Republic	162	91	84	60	67
DE	Germany	1338	1223	967	965	1100
DK	Denmark	75	68	61	61	53
EE	Estonia	31	15	8	15	28
EG	Egypt	3	4	3	9	3
ES	Spain	186	156	146	165	163
FI	Finland	52	51	58	96	88
FR	France	623	588	545	655	650
GB	United Kingdom	256	318	152	179	202
GE	Georgia	5	23	12	20	11
GR	Greece	21	10	14	15	19
HR	Croatia	12	12	6	12	11
HU	Hungary	162	239	42	63	150
IE	Ireland	23	40	32	34	12
IL	Israel	35	25	21	29	37
IN	India	21	28	23	31	24

Code	Country	2014	2015	2016	2017	2018
IR	Iran (Islamic Republic of)	12	12	6	9	6
IS	Iceland	11	8	1	1	–
IT	Italy	584	510	406	512	518
JP	Japan	203	173	118	181	131
KG	Kyrgyzstan	1	1	–	2	1
KR	Republic of Korea	71	66	89	96	108
KY	Cayman Islands	1	3	1	6	2
KZ	Kazakhstan	14	15	18	15	23
LI	Liechtenstein	64	24	13	39	24
LT	Lithuania	23	19	13	24	32
LU	Luxembourg	87	91	91	84	59
LV	Latvia	38	34	25	38	32
MA	Morocco	4	7	2	3	5
MC	Monaco	12	8	8	7	14
MD	Moldova	31	38	35	28	17
ME	Montenegro	1	5	1	0	8
MT	Malta	35	7	19	28	5
MX	Mexico	4	7	0	8	1
NL	Netherlands	172	178	133	126	118
NO	Norway	24	21	13	27	18
NZ	New Zealand	16	9	10	7	2
PL	Poland	156	171	110	189	164
PT	Portugal	19	23	37	28	19
RO	Romania	20	20	20	16	19
RS	Serbia	16	13	24	30	23
RU	Russian Federation	722	523	303	523	557
SC	Seychelles	–	1	3	1	1
SE	Sweden	56	76	56	60	59
SG	Singapore	28	19	19	45	24
SI	Slovenia	34	51	33	61	38
SK	Slovakia	38	51	31	24	20
SM	San Marino	7	3	1	3	1
TR	Turkey	436	362	228	310	233
US	USA	642	728	503	570	576
UZ	Uzbekistan	2	1	2	7	8
VG	Virgin Islands (British)	28	29	16	8	7
VN	Vietnam	6	4	5	18	12
	Others	11	6	11	20	19

2. Expenses for functioning and development of the state system of intellectual property rights protection in 2018

Expense items	Amount, Thousands UAH
Organization expenses, expenses associated with examination and grant of titles of protection for industrial property rights	233 376,6
Expenses for information activities in the sphere of intellectual property rights protection	4 614,7
Expenses for editorial and publishing activities	467,0
Expenses for development of international cooperation in the sphere of intellectual property rights protection, for organization and participation in exhibitions, competitions and seminars etc.	11 969,4
Expenses for organization of employee training and skill upgrading in the field of intellectual property rights protection	360,8
Acquisition of licensed software and maintenance of automated systems	5 633,6
Total:	256 422,1

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Address: 1, Hlazunova St., Kyiv-42, 01601, Ukraine
Tel.: +380 (44) 494-05-05
Fax: +380 (44) 494-05-06
office@ukrpatent.org
<http://www.ukrpatent.org>