



UKRAINE



ANNUAL REPORT

NATIONAL INTELLECTUAL
PROPERTY OFFICE

UKRAINIAN INTELLECTUAL
PROPERTY INSTITUTE
(UKRPATENT)

2020



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Dear colleagues,

Today, the rapid transformation, the ability to respond to the changing world around us is a key factor to success particularly in the field of innovative activity. In accordance with these principles and being the representatives of the state system of intellectual property (IP) legal protection, we strive to implement all necessary components for economic development driven by the creative mind and for further strengthening of Ukraine on the European and world stages.

The present annual report on the activities of the State Enterprise "Ukrainian Intellectual Property Institute" (Ukrpatent) demonstrates main achievements of the past year

The year of 2020 was undoubtedly a trying time, including for Ukraine's patent system. Everyone had to get used to new conditions, learn quickly, implement and master new tools, provide remote work and appropriate level of service for applicants and right holders. Along with the challenges posed by the pandemic, Ukrpatent has also passed its own endurance test. Today it can be stated that the institutional reform of the IP sphere has been completed. The Government decision of October 13, 2020 stipulates that Ukrpatent shall perform the functions of the National Intellectual Property Office. In particular, it is the recognition of achievements of the professional and well-coordinated team of the enterprise which continues to work for the development of the state system of IP legal protection and to ensure worthy representation in the IP sphere at the international level.

In 2020, Ukrpatent continued to cooperate effectively with the World Intellectual Property Organization (WIPO) particularly as an International Searching Authority (ISA) and International Preliminary Examining Authority (IPEA) under the Patent Cooperation Treaty (PCT) representing Ukraine among 23 leading patent offices. In September 2020, the Ukrainian delegation including representatives of Ukrpatent took an active part at the Sixty-First Series of Meetings of the Assemblies of the Member States of WIPO in Geneva which was held in hybrid format this year. A number of joint events with WIPO and the European Patent Office were also held

during the year. A substantial part thereof was dedicated to urgent issues on coordinating efforts in the health and IP spheres to tackle the effects of the pandemic efficiently.

In 2020, professional public events with participation of Ukrpatent experts took place mostly online. Those were numerous webinars, working meetings, online discussions among IP professionals of Ukraine involving international experts, specialized working groups and sessions of WIPO Committees, etc. The ability to continue professional communication effectively also determines the success of overcoming the crisis caused by the pandemic to a large extent. Besides, representatives of the WIPO Expert Group on implementation of the Small and Medium-sized Enterprises Project provided offline consultations; a visit to Ukrpatent by the U.S. Embassy in Ukraine representative, the IP Attaché for Eurasia Dorian Mazurkevich, took place to address the issues of further development of Ukrpatent's cooperation with the U.S. Patent and Trademark Office (USPTO); and the meeting of Ukrpatent experts with representatives of the State Enterprise "Medical Procurements of Ukraine" was held.

Ukrpatent in cooperation with the Ministry for Development of Economy, Trade and Agriculture of Ukraine (Ministry) made arrangements to inform the professional community of novelties in the legislation on trademarks and industrial designs aimed at strengthening protection and enforcement of rights and further harmonization with the European Union law.

In 2020, the all-Ukrainian network of Technology and Innovation Support Centers (TISC) developed further as a part of the implementation of the Memorandum of Understanding between WIPO and the Ministry. In particular, the TISC Center was opened on the basis of the National Technical University of Ukraine "Ihor Sikorsky Kyiv Polytechnic Institute".

Revival of the all-Ukrainian competition "Invention of the Year" was the significant event. In 2020, Ukrpatent signed the Memorandum of Cooperation with the Ukrainian Chamber of Commerce and Industry under which this large-scale project was implemented with the support of the Ministry. A total of 244 inventions protected by current patents for inventions of Ukraine issued during the last 5 years were submitted for the competition. During the online award ceremony, the winners that presented the best innovative projects of Ukraine were chosen in 12 sector-relevant nominations.

Also, in 2020, educational outreach activities were on the rise, namely: trainings and participation of experts in advanced distance learning courses of the WIPO Academy, development of the National Intellectual Property Training Center (IP Academy) which marked the first anniversary of its activity based at Ukrpatent as well as other events and projects.

More details on the results of the state system of IP legal protection and Ukrpatent activities in 2020 are presented further in the report. I would like to express my gratitude to all experts of Ukrpatent and the state system of IP legal protection who respond to difficult challenges of today with credit. May the daily conscientious work bring well-deserved reward and lead further to new achievements!

**Yours sincerely,
Director General**



Andrew Kudin

1 Legal and Methodological Support of Activities in the Field of Intellectual Property

In 2020, the process of reforming the intellectual property (IP) sphere in Ukraine was in progress. On June 16, 2020, the Verkhovna Rada of Ukraine adopted the Law of Ukraine "On Amendments to Certain Legislative Acts of Ukraine Concerning the Establishment of the National Intellectual Property Office" No. 703-IX (the NIPO Law) which defines the powers of the National Intellectual Property office (NIPO). The law entered into force on October 14, 2020.

The Cabinet of Ministers of Ukraine by the order No. 1267-r of October 13, 2020 "On the National Intellectual Property Office" determined that the State Enterprise "Ukrainian Intellectual Property Institute" (Ukrpatent) performs the functions of the National Intellectual Property Office.

From October 15, 2020, in accordance with the NIPO Law Ukrpatent exercises the following powers:

- receipt of applications for industrial property rights, examination thereof, taking decisions on such applications;
- receipt and consideration of applications for state registration of copyright in works of science, literature and art, as well as for registration of agreements relating to copyright in works, registration thereof;
- state registration of industrial designs and issuance of certificates;
- state registration of geographical indications;
- state registration of inventions and utility models, issuance of patents for inventions and utility models;

- state registration of trademarks, issuance of trademark certificates;
- state registration of semiconductor product layouts (layouts), issuance of certificates for layouts;
- issuance of registration certificates for copyright to a work;
- total or partial invalidation of rights to an industrial design;
- invalidation of rights to inventions and utility models;
- publication of official information on industrial designs, trademarks, layouts, geographical indications, inventions and utility models in the Bulletin;
- maintenance of state registers;
- provision of extracts and abstracts;
- maintenance of the Trademark Applications Database;
- publications in the official bulletin on copyright and related rights protection;
- training, attestation and registration of representatives on IP matters (patent attorneys);
- maintaining the State Register of Representatives on Intellectual Property Matters (Patent Attorneys);
- provision of information and explanations concerning the implementation of the state policy in the sphere of legal protection of IP rights;
- performing the functions of the "national Office" and the "Office" provided for by the Hague and Geneva Acts to the Hague Agreement Concerning the International Registration of Industrial Designs;

- performing the function of the "national Office" provided for by the Madrid Agreement Concerning the International Registration of Marks and the Protocol to the Madrid Agreement Concerning the International Registration of Marks;

- performing the functions of the "receiving Office", "International Searching Authority" and "International Preliminary Examining Authority" under the Patent Cooperation Treaty.

From October 15, 2020, there also are the following collegial bodies of Ukrpatent: the Appeals Chamber for consideration of oppositions against decisions on acquisition of IP rights, requests for invalidation of IP rights in whole or in part, requests on declaration of a trademark to be well-known in Ukraine; the Commission for Approval of Issues on Including the Designation Containing the Official Name of the State "Ukraine" in a Trademark and Service mark; the Attestation Commission for attestation of persons who have expressed the intention to acquire the right to practice activities of a representative on IP matters (patent attorney); the Appeals Commission for consideration of complaints of candidates for representatives on IP matters (patent attorneys) against the decisions of the Attestation Commission and consideration of complaints against the actions of representatives on IP matters (patent attorneys).

On August 16, 2020, the laws "On Amendments to Certain Legislative Acts of Ukraine Concerning Strengthening the Protection and Enforcement of Rights to Trademarks and Industrial Designs and Combating Patent Abuse" No. 815-IX and "On Amendments to Certain Legislative Acts of Ukraine Concerning the Patent Legislation Reform" No. 816-IX from July 21, 2020 entered into force.

The said laws are aimed at ensuring the fulfillment of Ukraine's obligations in the field of European integration in terms of harmonization of the requirements of current legislation of Ukraine on the protection of rights to trademarks and industrial designs, inventions and utility models with the European Union law.

In particular, the Law "On Amendments to Certain Legislative Acts of Ukraine Concerning Strengthening the Protection and Enforcement

of Rights to Trademarks and Industrial Designs and Combating Patent Abuse" provides for the implementation of Articles 204-207 of the Association Agreement into the national legislation, as well as the provisions of Directive 98/71/EC of the European Parliament and of the Council of 13 October 1998 on the legal protection of designs, Council Regulation (EC) No. 6/2002 of 12 December 2001 on Community designs; Directive 2008/95/EC of the European Parliament and of the Council of 22 October 2008 to approximate the laws of the Member States relating to trade marks, Council Regulation (EC) No. 207/2009 of 26 February 2009 on the Community trade mark.

The law provides for the possibility of filing trademark and industrial design applications in electronic form; the term "a collective trademark" is defined; the grounds for refusal of registration or invalidation of trademark registration are specified; the procedure for granting legal protection under international registration (under the Madrid system) is clarified; sanctions for trademark rights infringement are strengthened; an additional criterion for protection of industrial designs (individual character) is introduced; legal protection of unregistered industrial designs and possibility to divide an application are suggested; the period of rights protection is changed (5 years from filing date, duration of registered design rights is no more than 25 years); the type of the title of protection is changed (a certificate); an administrative procedure for cancellation of industrial design registrations has been established ("*post-grant opposition*"). The Law provides for new regulations for opposition procedure as to trademarks, namely, the opposition in course of application examining ("*pre-registration opposition*") and possibility to contest a decision on application by filing an opposition with the Appeals Chamber ("*post-registration opposition*").

Under the Law "On Amendments to Certain Legislative Acts of Ukraine Concerning the Patent Legislation Reform" the list of technology subject matters that are not covered by legal protection is extended; the possibility of filing applications in electronic form is provided; any person is given the right to file a grounded opposition to an application within six months

from the date of publication of the information on the application for an invention; the procedure for granting supplementary protection of rights to inventions is clarified; rights and obligations of holders of rights to inventions (utility models) are extended; the possibility of recognizing the rights to an invention and utility model as invalid in administrative procedure (*"post-grant opposition"*) is provided.

These laws amended, in particular, the Civil and Commercial Codes of Ukraine, the Laws of Ukraine "On the Protection of Rights to Inventions and Utility Models", "On the Protection of Rights to Trademarks and Service Marks", "On the Protection of Rights to Industrial Designs".

In accordance with the final and transitional provisions of these laws the task of bringing regulations into line with the said laws was taken on, in particular, the following draft documents were prepared:

- Rules for drafting, filing of an application for a trademark, application for the international registration of a trademark and carrying out examination of an application for a trademark, the international registration of a trademark with extension to Ukraine;

- Rules for drafting, filing and carrying out examination of an application for an invention and an application for a utility model;

- Rules for drafting, filing of an application for an industrial design and carrying out examination of an industrial design application and international registration of an industrial design;

- Rules for drafting, filing and consideration of an application for registration of a semiconductor product layout; and

- procedures for maintaining registers for particular IP rights.

2 Examination of Applications and Registration of Industrial Property Rights

Within the powers provided by the laws of Ukraine "On the Protection of Rights to Inventions and Utility Models", "On the Protection of Rights to Industrial Designs", "On the Protection of Rights to Layout of Semiconductor Devices", "On the Protection of Rights to Trademarks and Service Marks", "On the Legal Protection of Geographical Indications" Ukrpatent performs examination of applications for industrial property rights protection, state

registration of industrial property rights, grants titles of protection.

In 2020, a total of about 3.2 thousand applications for inventions, about 5.3 thousand those for utility models, above 2.0 thousand applications for industrial designs and above 35.5 thousand applications for trademarks (including more than 27.9 thousand those filed under the national procedure) were filed with Ukrpatent (see table 2.1).

Table 2.1. Applications for Industrial Property Rights Protection, 2016-2020*

Industrial property rights	2016	2017	2018	2019	2020
Inventions	4,092	4,046	3,969	3,852	3,183
Utility models	9,560	9,118	9,120	8,459	5,281
Industrial designs	2,302	2,480	3,042	2,678	2,026
Trademarks	35,605	37,817	38,652	42,194	35,539
<i>national procedure</i>	29,600	30,183	30,900	33,736	27,895
<i>international procedure</i>	6,005	7,634	7,752	8,458	7,644
Geographical indications	–	4	3	6	2

21,025 applications were filed through the electronic filing system in 2020, including 1,213 applications for inventions (5.8% of all electronic filings), 1,060 those for utility models

(5.0%), 1,045 – for industrial designs (5.0%), 17,707 (84.2%) trademark applications (see table 2.2, figure 2.1).

Table 2.2. Applications Filed through the Electronic Filing System, 2016-2020

Industrial property rights	2016	2017	2018	2019	2020
Total	3,668	6,888	11,180	14,998	21,025
Inventions	233	337	635	939	1,213
Utility models	205	337	527	722	1,060
Industrial designs	–	214	540	771	1,045
Trademarks	3,230	6,000	9,478	12,566	17,707
Share of the total filings (%)	8.1	15.1	23.8	30.8	54.8

* Data for the preceding years have been corrected

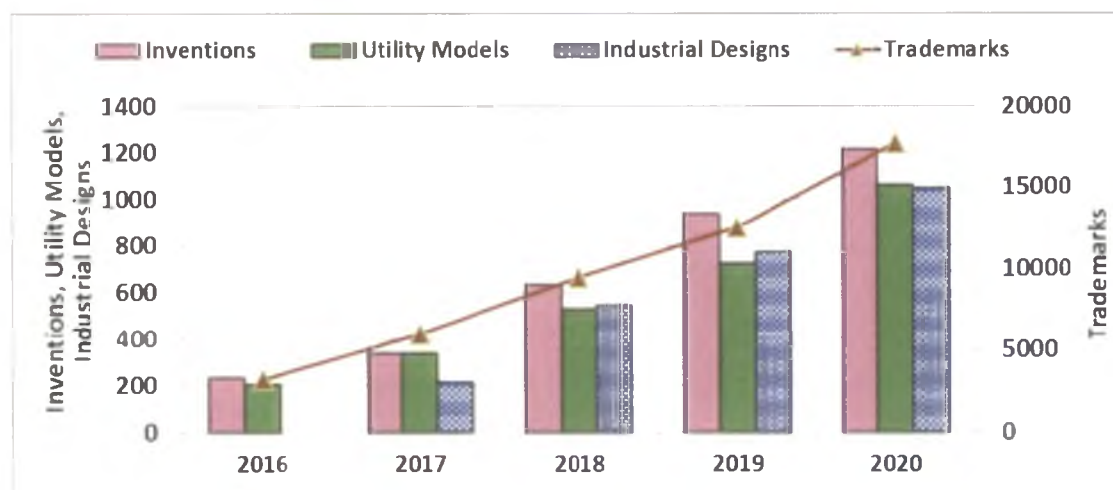


Figure 2.1. Trend in Electronic Filings

2.1. Inventions

In 2020, the number of applications for inventions totaled 3,183 (see table 2.3, figure 2.2). The number of resident filings decreased

by 35.2%, and the number of non-resident filings increased nearly by 4.0% as compared with previous year.

Table 2.3. Applications for Inventions, 2016-2020

	2016	2017	2018	2019	2020
Applications filed	4,092	4,046	3,969	3,852	3,183
Under the national procedure	2,422	2,495	2,356	2,298	1,600
by residents,	2,230	2,282	2,105	2,097	1,358
including legal entities	1,206	1,201	1,162	1,182	762
by non-residents	192	213	251	201	242
Under the PCT procedure	1,670	1,551	1,613	1,554	1,583
including resident applications	1	4	2	4	3

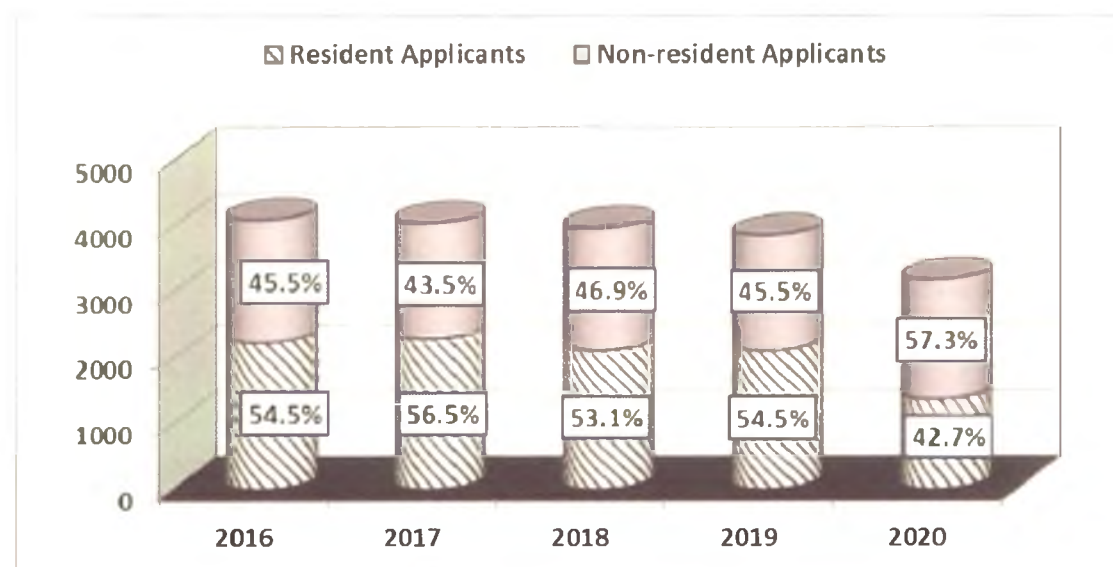


Figure 2.2. Trend in Patent Filings, 2016-2020

Resident applicants filed 1,361 applications for inventions in 2020 (nearly 43% of the total number). The largest number of resident filings came from Kyiv City (32.2%), Kharkiv Region (15.4%), Dnipropetrovsk Region (10.2%),

Odesa Region (5.2%), Lviv Region (4.5%), Kyiv Region (4.2%), Zaporizhia Region (2.9%), Zakarpattia and Ivano-Frankivsk Region (2.8%) (see figure 2.3).

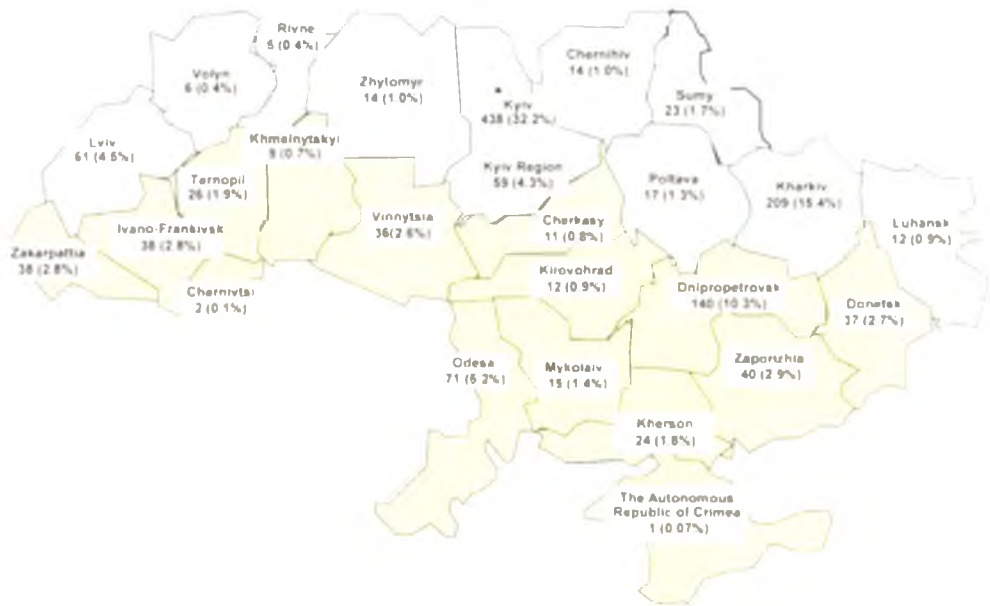


Figure 2.3. Applications for Inventions by Regions of Ukraine, 2020

The share of non-resident applications amounted to 57.3% of total filings. The share of PCT national phase entries amounted to nearly 87% of total non-resident filings. Applicants from USA (516 applications), Germany (220), Switzerland (203), China (99), the United

Kingdom (97), Russian Federation (62), Luxemburg (57), Japan (56) and France (55 applications) were the top non-resident applicants (see figure 2.4). The share of applications filed by EU applicants amounted to 35.3% of total non-resident filings.

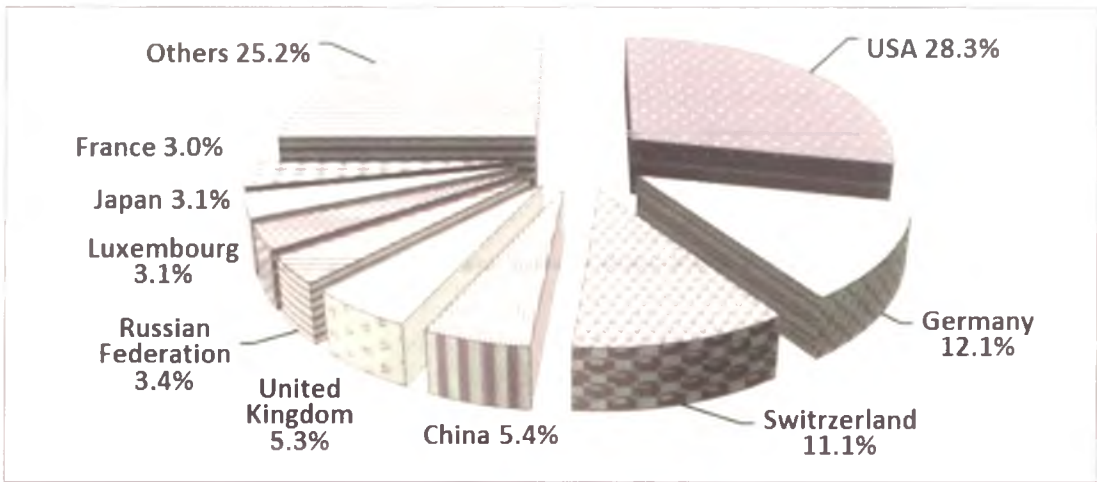


Figure 2.4. Non-resident Applications for Inventions by Origin, 2020

Data on application examining activities are presented in table 2.4.

Table 2.4. Results of Patent Application Examining Activities, 2016-2020

	2016	2017	2018	2019	2020
Formal examination					
Withdrawn applications	435	399	393	331	358
Expert opinions as to form	3,900	3,832	3,965	3,653	3,200
Rejected applications	10	18	7	18	12
Number of pending applications at the end of year	1,194	1,262	1,009	1,127	938
Substantive examination					
Number of requests for substantive examination	3,791	3,889	3,665	3,595	2,862
Granted applications	2,857	2,744	2,510	2,320	2,359
Rejected applications	68	45	38	65	48
Withdrawn or abandoned applications	932	901	820	853	858
Total disposals	3,857	3,690	3,368	3,238	3,265
Number of pending applications at the end of year	4,094	4,185	4,679	4,940	4,524

A total of 2,179 patents for inventions resident grants (see table 2.5, figure 2.5). were granted in 2020, including 1,086 (49.8%)

Table 2.5. Grants of Patents for Inventions, 2016-2020

	2016	2017	2018	2019	2020
Patents granted	2,813	2,590	2,469	2,255	2,179
to residents	1,277	1,224	1,203	1,248	1,086
to non-residents	1,536	1,366	1,266	1,007	1,093
Patents in force at the end of year	24,760	23,705	22,977	22,440	21,190

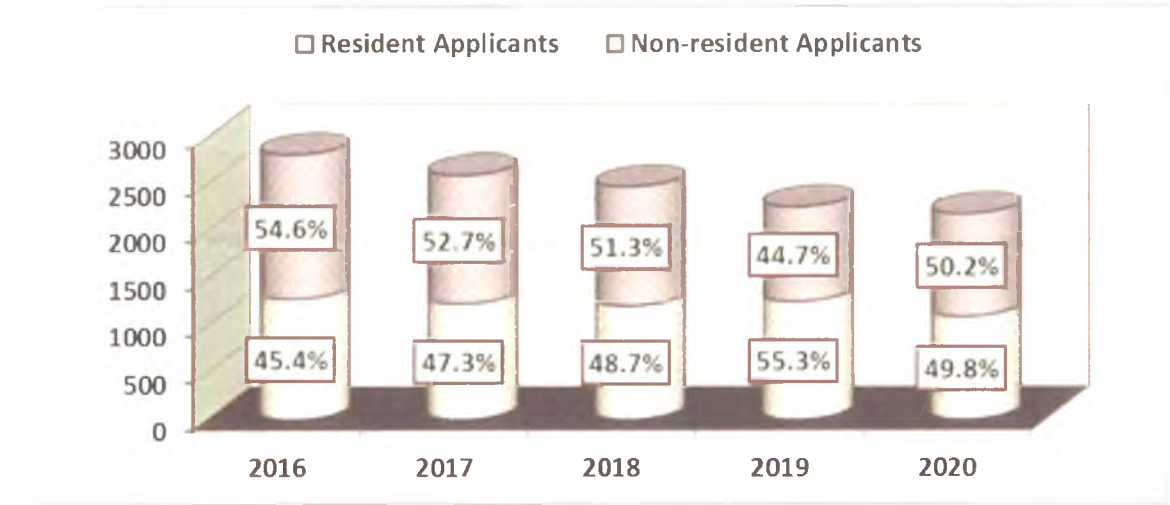


Figure 2.5. Trend in Grants of Patents for Inventions, 2016-2020

1,093 patents were granted to non-resident applicants, in particular, to applicants from USA – 265, Germany – 136, Switzerland – 118, France – 61, Japan – 50, the United Kingdom – 45, Luxemburg – 44, China – 37, Italy –

35, Netherlands – 35, the Russian Federation – 30.

As of January 1, 2021, a total of 127,634 patents for inventions were granted, of these 21,190 patents were in force (see figure 2.6).

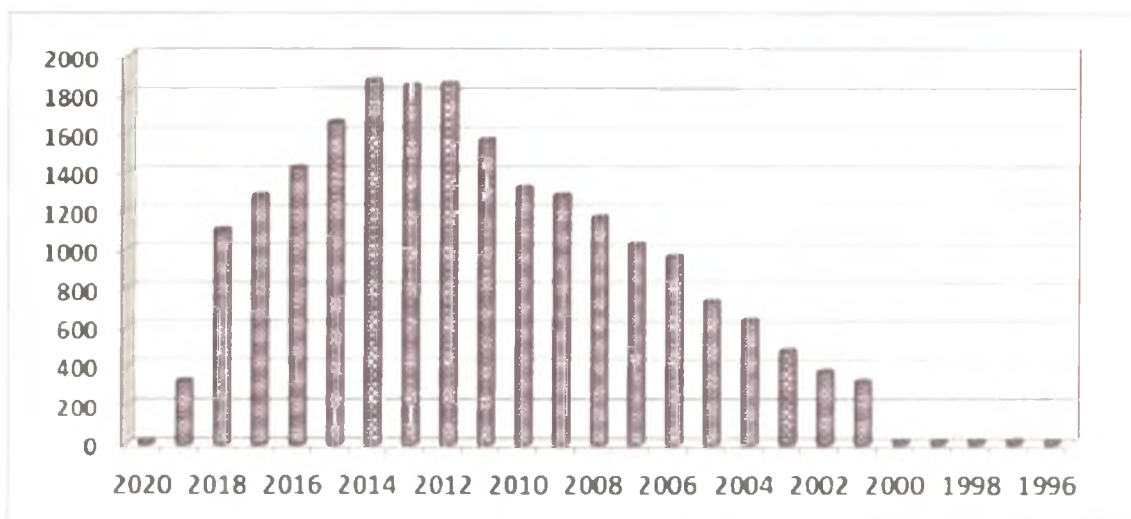


Figure 2.6 Patents in Force by Year of Filing

2.2. Utility Models

Almost 5.3 thousand utility model applications were filed in 2020, 95.9% of those were

resident filings (see table 2.6, figure 2.7).

Table 2.6. Utility Model Applications, 2016-2020

	2016	2017	2018	2019	2020
Applications filed	9,560	9,118	9,120	8,459	5,281
Under the national procedure	9,551	9,107	9,115	8,448	5,273
by residents	9,470	8,979	8,982	8,351	5,063
including legal entities	6,324	5,962	6,293	5,664	3,201
by non-residents	81	128	133	97	210
Under the PCT procedure	9	11	5	11	8
including resident applications	3	—	—	2	—

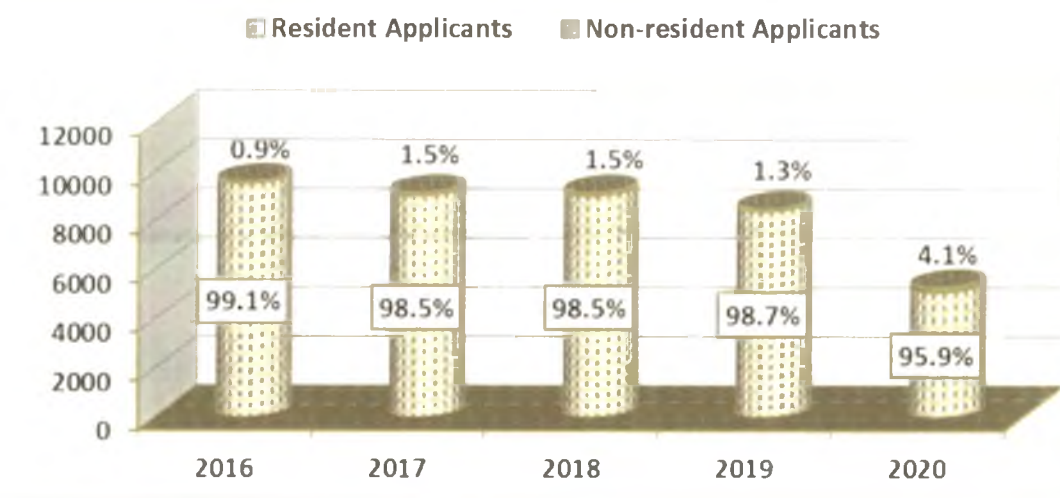


Figure 2.7. Trend in Utility Model Filings, 2016-2020

218 non-resident applications were filed, 94 filings came from Hong Kong, 37 from Poland, 17 from Cyprus, 15 from the Russian Federation, 14 from Belarus, 11 from Slovakia,

6 from China. The distribution of utility model applications filed by non-resident applicants is presented in figure 2.8.

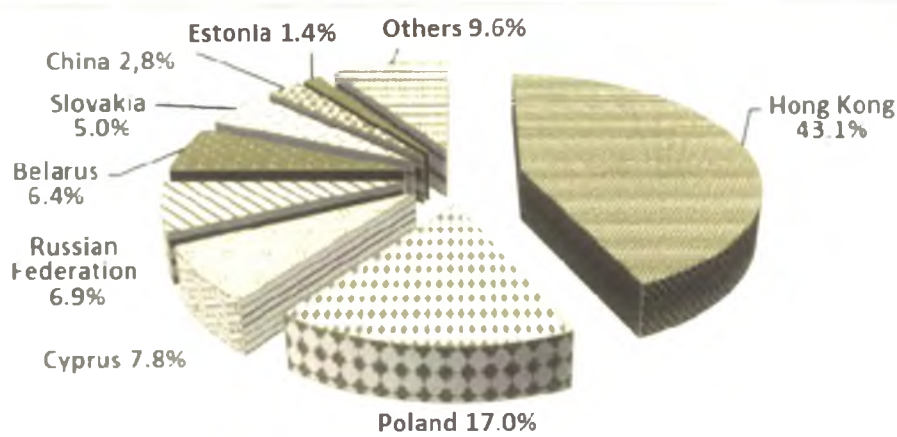


Figure 2.8. Non-resident Applications by Origin, 2020

6,139 applications for utility models were processed, including 5,708 allowed applications, 36 refused applications and 395 withdrawn applications.

Almost 6.4 thousand utility model patents were granted in 2020, 97.6% of those were resident grants (see table 2.7, figure 2.9).

Table 2.7. Grants of Utility Model Patents, 2016-2020

	2016	2017	2018	2019	2020
Patents granted	9,044	9,442	8,620	8,412	6,385
to residents	8,931	9,365	8,471	8,288	6,229
to non-residents	113	77	149	124	156
Patents in force at the end of year	35,914	36,658	36 992	36,841	32,120

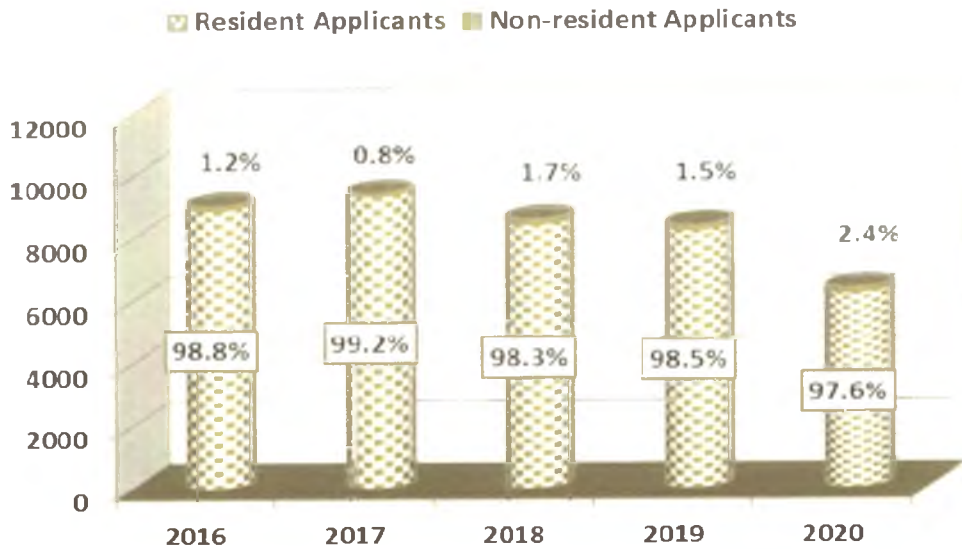


Figure 2.9. Trend in the Utility Model Grants, 2016-2020

156 patents for utility models were granted to non-resident applicants, in particular 26 – to applicants from Hong Kong, 24 – from Cyprus and Poland, 18 – from the Russian Federation, 16 – from Slovakia, 13 – from the

United Kingdom, 8 – from Belarus and 8 – from China.

As of January 1, 2021, a total of 145,750 patents for utility models were granted, of these 32,120 patents were in force (see figure 2.10).

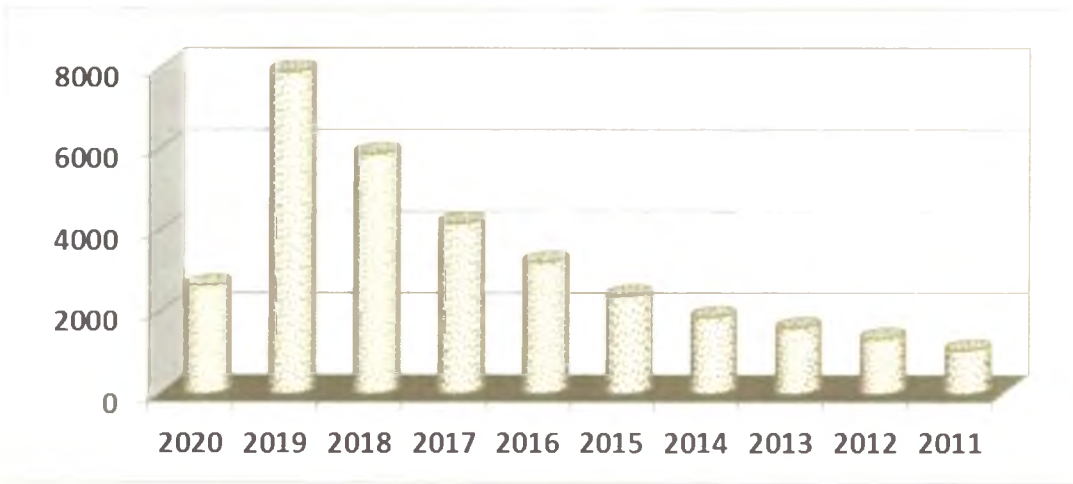


Figure 2.10. Utility Model Patents in Force by Year of Filing

2.3. Industrial Designs

In 2020, more than 2.0 thousand applications for industrial designs were filed (see table 2.8,

figure 2.11). The share of non-resident applications amounted to 12.9%.

Table 2.8. Industrial Design Applications, 2016-2020

	2016	2017	2018	2019	2020
Applications filed	2,302	2,480	3,042	2,678	2,026
by residents	2,016	2,249	2,787	2,455	1,764
including legal entities	446	582	597	527	465
by non-residents	286	231	255	223	262

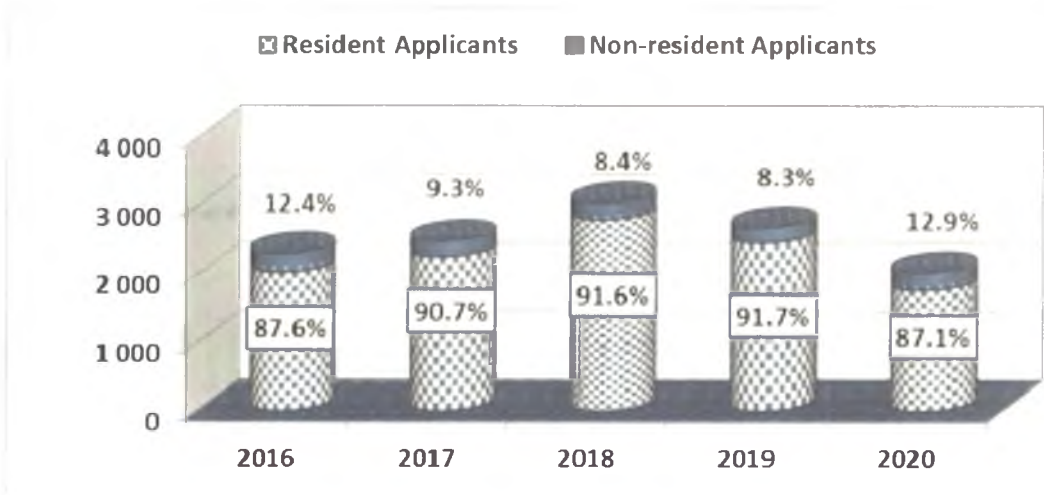


Figure 2.11. Trend in Industrial Design Filings, 2016-2020

In the year under review among top non-resident applicants were those from China (48 applications), Denmark (34), the Russian Federation (29), USA (27), the United Kingdom (18),

Cyprus (18), Japan (17), Belarus (8) and Sweden (8) (see figure 2.12). The share of applications from those countries amounted to 78.6% of total non-resident filings in 2020.

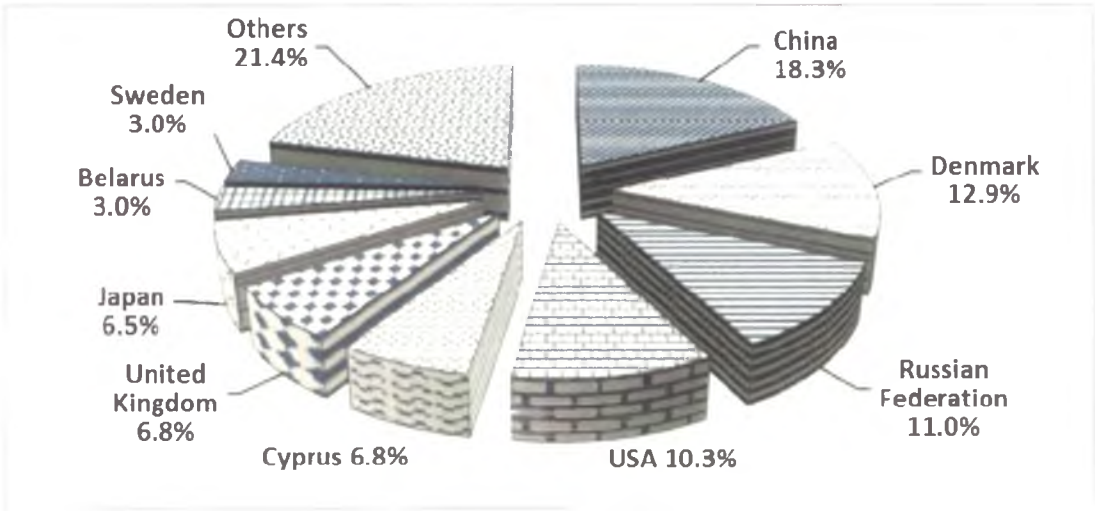


Figure 2.12. Non-resident Applications by Origin, 2020

The total number of processed industrial design applications amounted to 2,662, including 2,272 allowed applications, 390 withdrawn applications.

2,047 industrial designs were registered in 2020, including 1,820 (88.9%) resident registrations (see table 2.9, figure 2.13).

Table 2.9. Industrial Design Registrations, 2016-2020

	2016	2017	2018	2019	2020
Designs registered	2,469	2,390	2,297	2,599	2,047
to residents	2,134	2,113	2,077	2,396	1,820
to non-residents	335	277	220	203	227
Registrations in force at the end of year	13,026	13,761	14,383	14,873	14,623

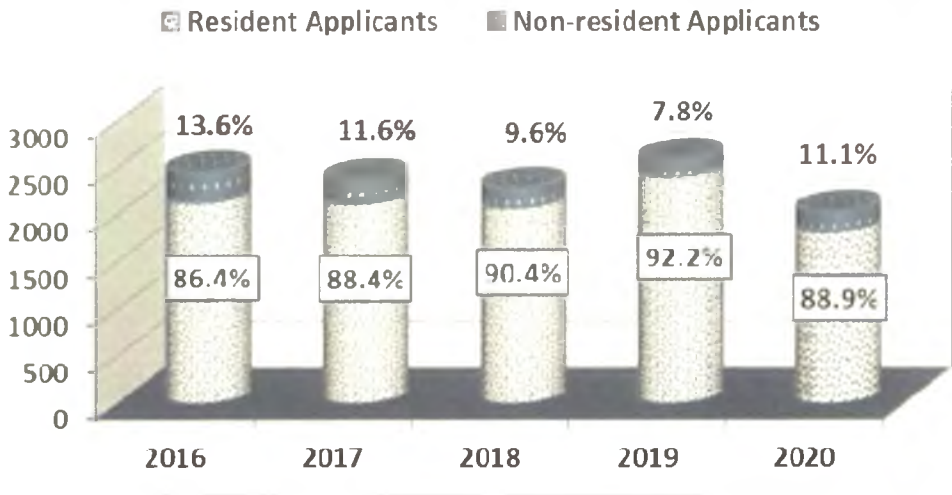


Figure 2.13. Trend in Industrial Design Registrations, 2016-2020

As of January 1, 2021, a total of 42,956 industrial designs were registered, of these 14,623 registrations were in force.

The effect 554 of international registra-

tions under the Hague Agreement Concerning the International Registration of Industrial Designs was extended to the territory of Ukraine in 2020 (see figure 2.14).

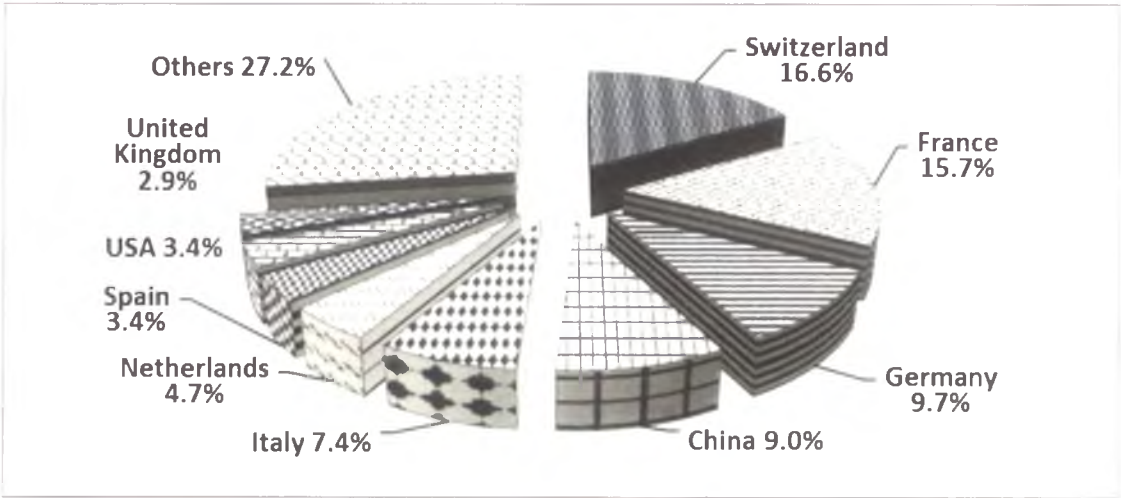


Figure 2.14. Registrations under the Hague Agreement by Origin, 2020

2.4. Trademarks

National procedure

Activity of resident trademark applicants decreased more than by 20%, activity of non-resident applicants increased by 3.7%. The

share of non-resident applications amounted to 14.5% of total filings through the national procedure (table 2.10, see figure 2.15).

Table 2.10. Trademark Applications, 2016-2020

	2016	2017	2018	2019	2020
Applications filed	29,600	30,183	30,900	33,736	27,895
by residents	26,064	26,275	27,327	29,828	23,841
by non-residents	3,536	3,908	3,573	3,908	4,054

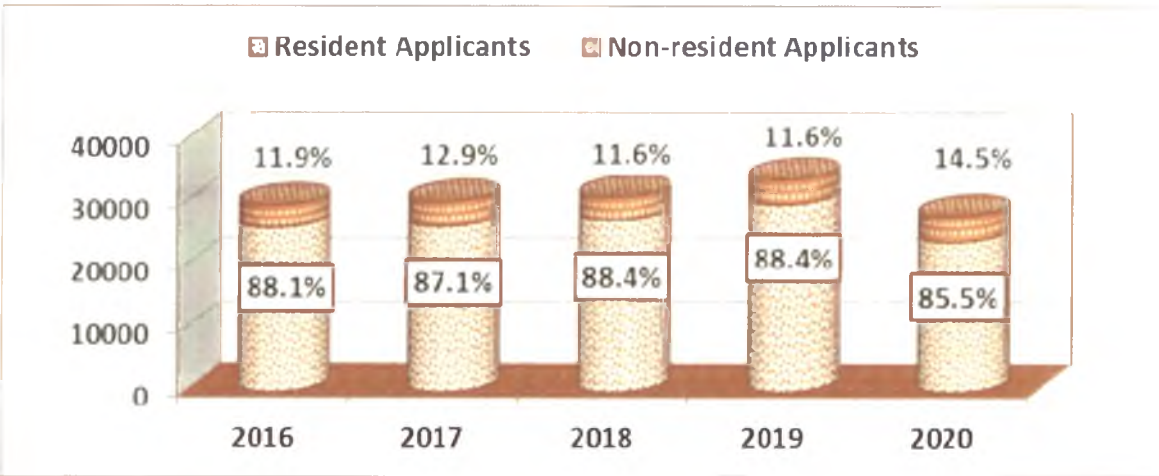


Figure 2.15. Trend in Trademark Filings, 2016-2020

The most active among the non-resident applicants were those from USA – 790 applications, Cyprus – 623, Switzerland – 423, China –

205, the United Kingdom – 196, Germany – 152, Japan – 119, the Republic of Korea – 115, India – 107 applications (see figure 2.16).

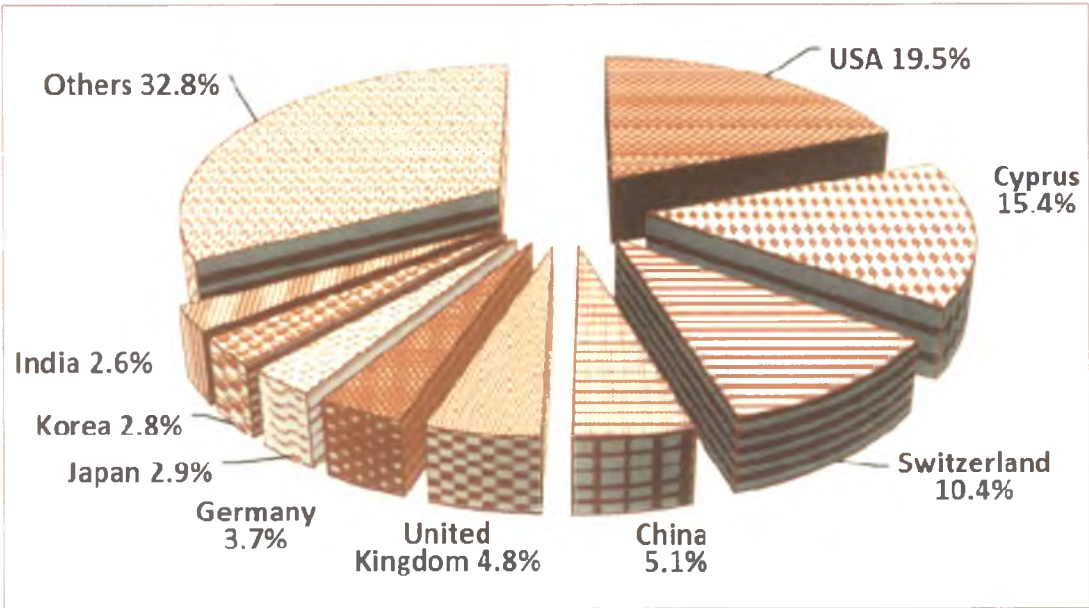


Figure 2.16. Non-resident Applications by Origin, 2020

Table 2.11 presents data on trademark examining activities.

Table 2.11. Results of Trademark Examining Activities, 2016-2020

	2016	2017	2018	2019	2020
Expert opinions as to form	21,166	22,985	22,748	23,104	27,030
Applications withdrawn or abandoned	5,726	5,270	5,245	5,319	5,750
Decisions on registration	14,338	16,620	18,218	19,342	23,523
Total rejections	1,825	1,865	1,795	2,027	2,071
Disposals	21,889	23,755	25,258	26 688	31,344
Reopening of proceedings	520	617	724	661	894
Pending applications undergoing substantive examination at the end of year	33,076	40,099	37,783	46,501	41,122

More than 19.6 thousand trademarks were registered in 2020, of these 85.7% were resident registrations (see table 2.12, figure 2.17).

Table 2.12. Trademark Registrations, 2016-2020

	2016	2017	2018	2019	2020
Trademarks registered	13,618	15,248	15,877	17,322	19,640
to residents	11,007	12,986	13,553	14,788	16,839
to non-residents	2,611	2,262	2,324	2,534	2,801
Registrations in force at the end of year	172,015	177,353	182,120	191,628	201,053

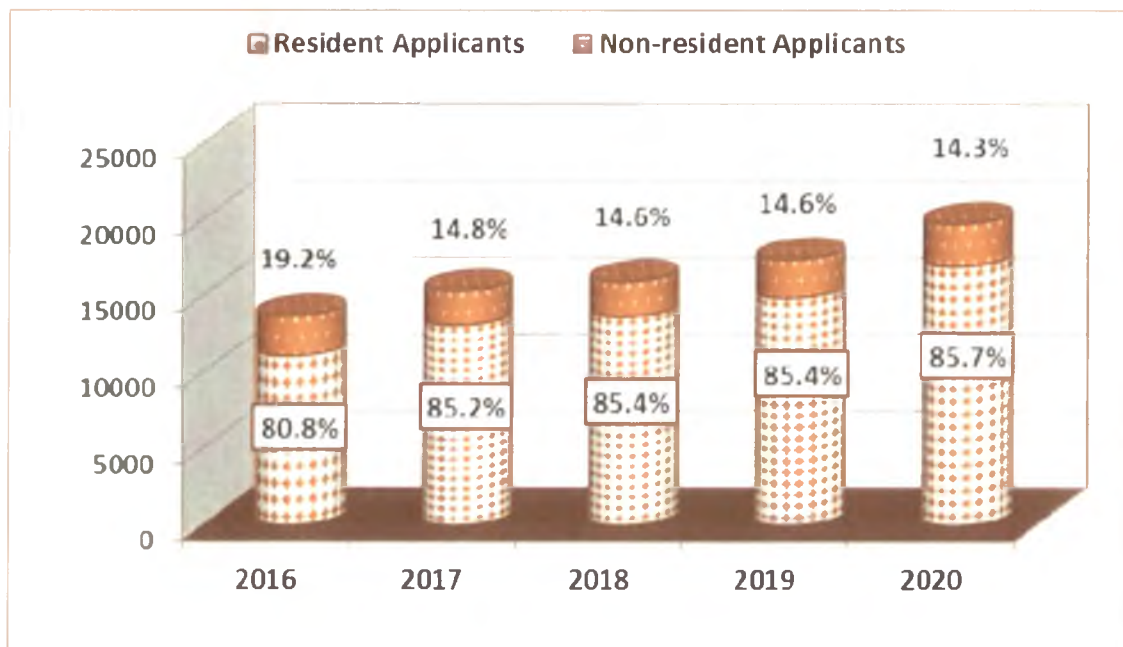


Figure 2.17. Trend in Trademark Registrations, 2016-2020

As of January 1, 2021, 289,308 trademarks were registered, of these 201,053 registrations were in force.

International procedure

In 2020, 7,644 international applications were received from the WIPO International Bureau. The protection was granted to 8,413 international marks (see table 2.13, figure 2.18).

Table 2.13. Trademark Applications and Registrations under the Madrid System, 2016-2020

	2016	2017	2018	2019	2020
Applications filed	6,005	7,634	7,752	8,458	7,644
Protection granted	7,620	5,563	7,498	7,212	8,413



Figure 2.18. Trend in Filings and Registrations under the Madrid System, 2016-2020

In 2020, the top users of the Madrid System on the territory of Ukraine were applicants from China (1,200 applications), Germany (991), USA (627), the Russian Federation (588), Switzerland (477), France (443), Italy (421),

the United Kingdom (217), Turkey (191), Spain (187), the Republic of Korea (167), Poland (167) and Japan (161). The share of applications from these countries amounted to 76.3% (see figure 2.19).

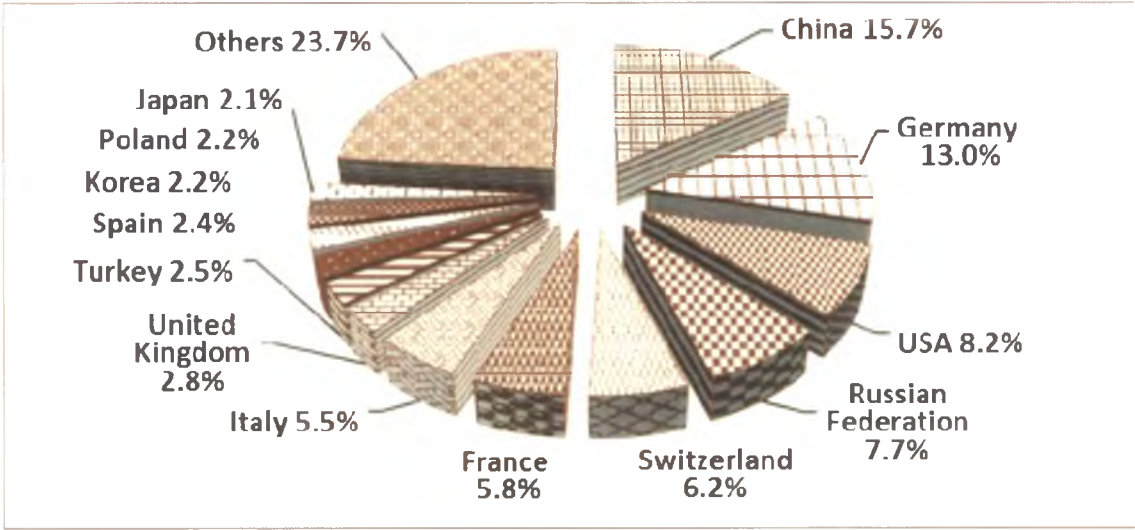


Figure 2.19. Filings under the Madrid System by Origin, 2020

In 2020, 548 resident trademark applications were sent to WIPO International Bureau for international registration (see figure 2.20).

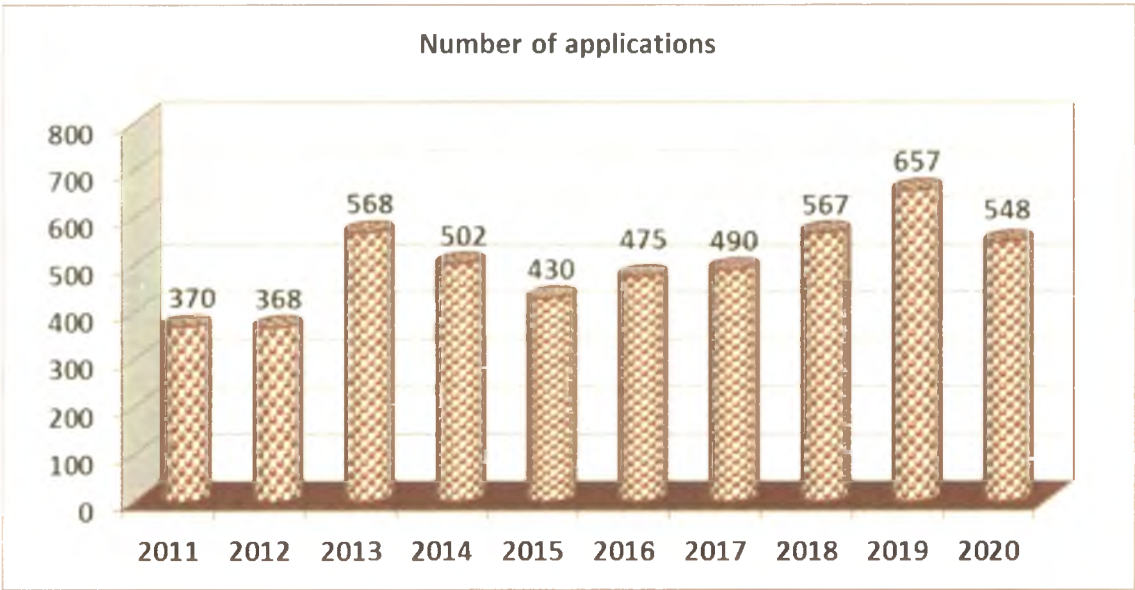


Figure 2.20. Trend in Resident Activity in the International Registration of Trademarks, 2011-2020

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



According to the Agreement between the Ministry for Development of Economy, Trade and Agriculture of Ukraine and the International Bureau of the World Intellectual Property Organization in relation to the functioning of the State Enterprise "Ukrainian Intellectual Property Institute" as an International Searching Authority and International Preliminary Examining Authority under the Patent Cooperation Treaty concluded for the period January 1, 2018 to December 31, 2027, during 2020 Ukrpatent continued to perform functions of an International Searching Authority (ISA) and International Preliminary Examining Authority (IPEA) under the Patent Cooperation Treaty (PCT).

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

In 2020, 111 applications were filed with Ukrpatent as receiving Office, that is by 35% less than in 2019, and by 26% less than the average figure of the preceding years. This is the lowest figure since 2016, when Ukrpatent began to function as ISA/IPEA (table 3.1). The share of applications filed in English increased as compared with 2019 and amounted to 27%.

Table 3.1. International Filings with Ukrpatent as Receiving Office, 2016-2019

Number of applications	2016	2017	2018	2019	2020	Total
Filed in English	35	29	36	31	30	161
Filed in Russian	118	102	107	139	81	548
Total	153	131	143	170	111	709

In 2020 Ukrpatent received 63 search copies that is by 33% less than figure of previous year, and transmitted 71 search reports and written opinions of ISA to applicants and to the IB of WIPO.

From 2016 to 2019 there was upward trend in number of filings for which search copies were received by Ukrpatent as well as

in number of international search reports and written opinions of ISA transmitted to applicants and to the IB of WIPO. In 2020 number of such applications decreased as compared to previous year (table 3.2). In the report year there were no requests for additional international search.

Table 3.2. ISA Performance Indicators

	2016	2017	2018	2019	2020	Total
Number of search copies received	22	39	52	94	63	270
Number of international search reports and written opinions transmitted to applicants and to the IB	18	39	35	94	71	257
Number of requests for additional international search	–	1	–	5	–	6
Number of additional international search reports	–	–	1	2	3	6

IPEA performance indicators are presented in table 3.3.

Table 3.3. IPEA Performance Indicators

	2016	2017	2018	2019	2020	Total
Number of demands for international preliminary examination	3	5	8	9	7	32
Number of international preliminary reports on patentability transmitted to applicants and to the IB	–	4	7	7	8	26

Ukrpatent pays much 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 Examination of Applications for Inventions, Utility Models and Topographies of Integrated Circuits. The analysis of international search reports and written opinions established by Ukrpatent shows high performance of its examiners (see figure 3).

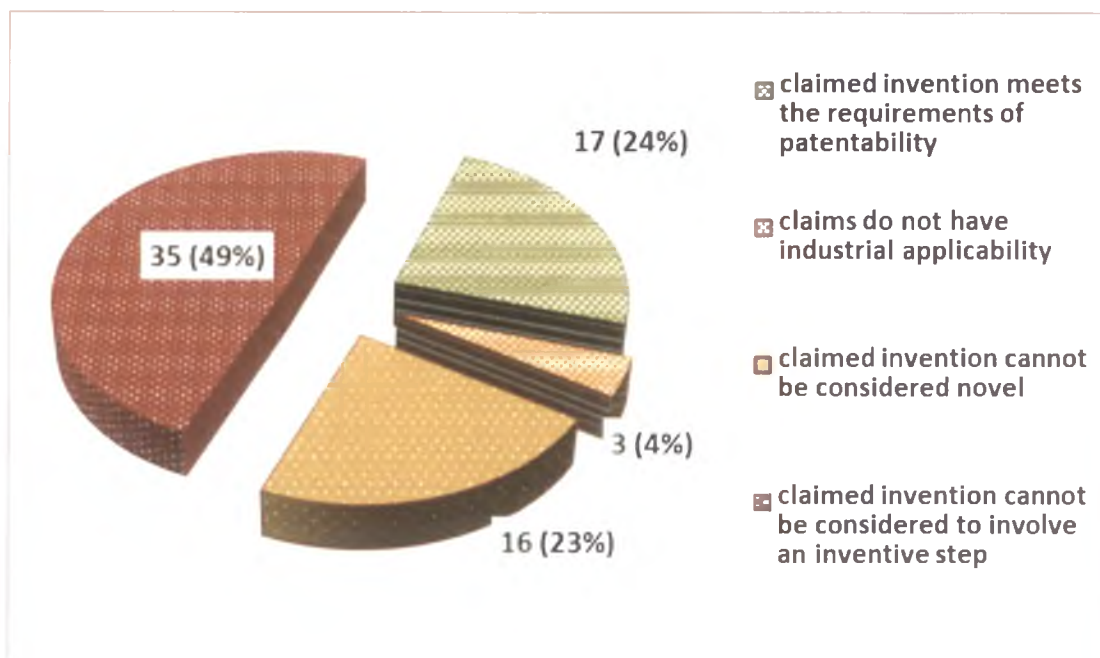


Figure 3. International Search Reports and Written Opinions by Search Results

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

for Inventions and Utility Models. Since Ukrpatent began functioning as ISA and IPEA it has been keeping all established procedural terms as represented in WIPO statistical reports for relevant period.

4 Information and Technology Support of Examination of Applications for Industrial Property Rights



4.1. Patent Information Resources

In 2020, to meet the examiners need in reliable and up-to-date information, in particular for proper patent information provision of Ukrpatent functioning as an International Searching and Preliminary Examining Authority (ISA/IPEA), formation of a number of patent information funds and electronic resources that make the patent information base for examination purposes was provided.

A bilateral international exchange of patent documentation (on optical carriers and via FTP) with foreign patent offices is carried

out by Ukrpatent as the Center of International Exchange of Publications (with 7 offices in 2020), which is an integral component of sources for acquisition of foreign patent documents both for examination purposes and for the public needs. In the reporting year, due to quarantine restrictions in pandemic conditions, the current acquisition of the patent information base for examination by foreign patent documentation was mainly provided through FTP-servers (from the offices of 5 countries and one regional office (EAPO)).

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

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

In the course of 2020, the Reference and Information File (RIF) for examination was replenished by over 670 copies of books, booklets, periodicals, as well as the national patent documentation – current publications of the Bulletin "Industrial Property" on CD-ROM, the National CD-ROMs "Inventions in Ukraine" and "Marks for Goods and Services Registered in Ukraine" as well as the publications of the Bulletin "Copyright and Related Rights".

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

- the Network Electronic Catalogue was replenished by over 820 documents;
- the full-text non-patent literature database of the Search Portal was replenished with about 10,900 documents by digitalizing printed publications from own collections and those obtained from other information sources.

In 2020, maintenance of the standards collection available in the RIF for examination was in progress. An electronic information resource – the Catalogue of Normative Documents of Ukraine, Available in Information Resources of Ukrpatent – was maintained after its implementation in 2015. With this purpose, the "Standards" current periodical information index, published by the State Enterprise "Ukrainian Research, Development and Training Centre for the Matters of Standardization, Certification and Quality" was processed. The revealed information on changes and amendments was entered directly to the documents of the electronic information resource.

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

of Ukraine and foreign countries. Electronic copies of the requested information resources are obtained through the electronic document delivery.

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

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

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

In total, according to the examiners queries, about 1,100 documents were provided, including 88 % in electronic form that confirms the steady tendency to increase the share of electronic documents in the service of users.

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

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

In 2020, the complex of works was continued to ensure the guaranteed access of the examiners to 11 foreign commercial information Internet resources containing the PCT Minimum Documentation, the use of which is necessary for the quality of patent searches at Ukrpatent, in particular in the context of Ukrpatent functioning as an ISA and IPEA:

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

In the year under review necessary works were arranged to renew the following agreements:

- with foreign providers of four commercial Internet resources to ensure access to non-patent literature sources at Ukrpatent in 2021;
- with Elsevier B.V. to provide access to Reaxys and Reaxys Medicinal Chemistry databases for examiners in 2020-2021;
- with Clarivate Analytics to provide access to Derwent World Patent Index (DWPI) database for examiners in April 2020 - April 2022;
- with the EPO to provide access to the EPO's EPOQUE Net system for examiners in 2021-2023.

4.2. International Classifications in the Ukrainian Translation: new versions/editions

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



On completion of the complex of works implemented by Ukrpatent throughout 2019 on updating the texts of the International Patent Classification (IPC) and the International Classification of Goods and Services for the Purposes of the Registration of Marks (Nice Classification) their new versions/editions were introduced, which were put into effect on January 1, 2020 by the relevant orders of the Ministry:

- On the Implementation of the 2020 Version of the International Patent Classification Translated into Ukrainian, dated December 13, 2019, No. 665;
- On the Implementation of the 2020 version of the Eleventh Edition of the International Classification of Goods and Services for the

Purposes of the Registration of Marks Translated into Ukrainian, dated December 13, 2019, No. 662.

In pursuance of these orders, information and reference systems (IRS) for the IPC 2020.01 and NCL (11-2020) were created and were freely available at the Ukrpatent website.

In connection with the introduction of changes and additions to the text of the IPC by WIPO in 2020 and entering into force of the IPC 2021.01 on January 1, 2021, the appropriate set of works was implemented at Ukrpatent and the following was provided:

- translation from English into Ukrainian, scientific and terminological, scientific and technical editing of the changes and additions to the IPC 2020.01 with the aim to update the classification and use the IPC 2021.01, translated into Ukrainian, in the state system of IP legal protection from January 1, 2021;

- creation of the new IRS for the IPC 2021.01, 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 2020 version of the said Handbook in the Ukrainian translation was also created and its placement in the IRS for the IPC was ensured. The Handbook is available in PDF format and is convenient, in particular, in terms of searchability and provision of information in one array which facilitates its perception.

As a result of these works, from January 1, 2021, by the Order of Ukrpatent dated December 7, 2020 No. 177-N/2020 "On the Implementation of the 2021 Version of the International Patent Classification Translated into Ukrainian", the IPC 2021.01 in the Ukrainian translation was introduced in the state system of IP legal protection.

In connection with changes and additions introduced by WIPO to the 2020 version of

the eleventh edition of the Nice Classification in 2020 and implementation of the 2021 version of the eleventh edition of the Nice Classification – NCL (11-2021) – as of January 1, 2021, the appropriate set of works was accomplished at Ukrpatent and the following was provided:

- translation from English into Ukrainian, scientific and terminological, scientific and technical editing of the changes and additions to the NCL (11-2020) in order to update the classification and provide the use of the NCL (11-2021) translated into Ukrainian in the state system of IP legal protection;

- creation of the IRS for the NCL (11- 2021), which is freely accessible through the Ukrpatent website.

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

As a result of these works, from January 1, 2021, by the Order of Ukrpatent dated December 7, 2020 No. 175-N/2020 "On Implementation of the 2021 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 (11-2021) in the Ukrainian translation was introduced in the state system of IP legal protection.

In 2020, cooperation was in progress between the Ukrpatent specialists and the WIPO subdivision, responsible for the operation and development of the Madrid Goods & Services Manager (MGS) online tool, created by WIPO to help trademark applicants to compile and classify their lists of goods and services before filing an international trademark application under the Madrid System.

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

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

In connection with changes and additions introduced by WIPO to the twelfth edition of the Locarno Classification in 2019 and implementation of the thirteenth edition of the Locarno Classification – LOC (13) – as of January 1, 2021, the appropriate set of works was accomplished at Ukrpatent and the following was provided:

- translation from English into Ukrainian, scientific and terminological, scientific and technical editing of the changes and additions to LOC (12) in order to update the classification and provide the use of LOC (13) translated into Ukrainian in the state system of IP legal protection;

- creation of the IRS for LOC (13), which is freely accessible through the Ukrpatent website.

As a result of these works, from January 1, 2021, by the Order of Ukrpatent dated December 7, 2020 No. 176-N/2020 "On Implementation of the Thirteenth Edition of the International Classification for Industrial Designs Translated into Ukrainian", LOC (13) in the Ukrainian translation was introduced in the state system of IP legal protection.

**4.3. WIPO Standards
in the Ukrainian Translation**

In the course of proceedings on applications for industrial property rights, in particular at the time of their filing, examination, publication of national patent documentation, registration and issuance of titles of protection as well as in the process of creation and updating of specialized Internet resources, recommendations of WIPO Standards are applied which, in the course of time, are becoming increasingly important in the world IP 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 IP 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 25 WIPO Standards (with no official status). Such work continued in 2020, in particular, according to the current versions published by WIPO the following translations of WIPO Standards were updated:

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

- ST.96: Recommendation for the processing of industrial property information using XML (eXtensible Markup Language).

In 2020, the following WIPO Standards were translated into Ukrainian for the first time:

- ST.37: Recommendation for an authority file of published patent documents;

- ST.66: Recommendation for the processing of trademark information using XML (eXtensible Markup Language);

- ST.67: Recommendations for the electronic management of the figurative elements of trademarks;

- ST.86: Recommendation for the processing of industrial design information using XML (eXtensible Markup Language);

- ST.87: Recommendation for the exchange of industrial design legal status data.

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

**4.4. Improvement of Information
Technology**

Automation of office processes on applications and titles of protection for industrial property rights, namely, development of technological automated systems, automation of document management and provision of complex electronic processing of information, is an integral part of information technology support of examina-

tion procedure and registration of industrial property rights.

In 2020, implementation of the project to create a comprehensive automated record keeping system for applications for designations and industrial designs (CARKS ADID) continued. The main purpose of the project is to automate procedures and functions in information technology processes of document management on applications for registration of trademarks, geographical indications, industrial designs as well as automation of procedures and functions in information technology processes of document management, maintaining relevant state registers to simplify and accelerate the process of acquiring respective IP rights.

In the context of quarantine measures related to the coronavirus pandemic, the task of developing web-based software that would allow applicants to file electronic applications online as well as provide the possibility to work remotely with technological automated systems for examiners and IP experts.

In the course of 2020, a number of projects were developed to replace obsolete software with new one based on a modern web-based technology stack. There are the following

projects: development of an integrated environment for filing electronic applications (IEFEA) which will provide applicants with a modern, convenient, unified online service for filing applications for registration of IP rights, additional (secondary) documents in the process of applications processing, receiving documents from Ukrpatent, submission of inquiries and documents to the State Registers for IP rights, receiving replies and documents from the State Registers as well as for the creation and submission of PCT applications in WAD and WASP formats to the receiving Office, creation and submission of applications under the international trademark registration procedure under the Madrid Agreement and/or the Protocol to the Madrid Agreement. Implementation of this project will allow to combine all application services into a single personal account, to draft applications, to store them safely, to apply a qualified electronic signature (QES), to file these applications with Ukrpatent, to receive receipts, to work with application materials, to monitor the application processing stages, to maintain correspondence. User authorization will be carried out with a personal certificate, Bank ID, Mobile ID.

5 Intellectual Property Rights Enforcement, Processing of Public Appeals

The Ukrainian legislation in the intellectual property (IP) sphere provides for the possibility of IP rights enforcement both in court and in administrative proceedings. The administrative procedure for IP rights enforcement is ensured by the applicant's right to appeal against the decision on an application to the Appeals Chamber; the judicial procedure is ensured by the right of an applicant to appeal against the decision on an application to the court.

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

In 2020, the mandate of the Appeals Chamber, the procedure for processing appeals in the Appeals Chamber against decisions of the Ministry for Development of Economy, Trade and Agriculture of Ukraine (Ministry) concerning the acquisition of intellectual property rights, the procedure for organizational and technical support of the Appeals Chamber and other issues within

its competence were determined by the Rules of Procedure of the Appeals Chamber of the Ministry, approved by the Order of the Ministry No. 263 as of February 19, 2019.

In accordance with the statutory tasks, Ukrpatent provided organizational and technical support for the activities of the Appeals Chamber of the Ministry on processing appeals against decisions of the Ministry on applications for inventions, utility models and trademarks.

In the reporting year, a total of 90 oppositions were filed with the Appeals Chamber and were distributed by industrial property rights as follows: 5 oppositions (5.6%) – inventions, 2 oppositions (2.2%) – utility models, 83 oppositions (92.2%) – trademarks (see table 5.1).

Table 5.1. Oppositions Filed by Industrial Property Rights, 2016-2020

Industrial property rights	2016	2017	2018	2019	2020
Total, including	119	103	102	85	90
Inventions	15	11	8	12	5
Utility models	4	1	–	2	2
Industrial designs	1	–	–	–	–
Trademarks	99	91	94	71	83

Oppositions were processed at 155 sessions of the Appeals Chamber board. A total of 126 oppositions were processed, a total of

83 decisions of the Appeals Chamber were approved, in particular, 49 decisions were to fully satisfy the opposition, 1 decision – to

partially satisfy the opposition and 33 decisions were to dismiss the opposition (see table 5.2, figure 5). The average time for processing an opposition the decision on which was made in 2020 amounted to 4 months.

Table 5.2. Appeals Chamber Decisions on Oppositions, 2016-2020

	2016		2017		2018		2019		2020	
	qty	%	qty	%	qty	%	qty	%	qty	%
Decisions made, incl.	104	100	103	100	81	100	84	100	83	100
to fully satisfy	69	66.3	64	62.1	38	46.9	38	45.2	49	59.0
to partially satisfy	2	2.0	4	3.9	5	6.2	2	3.6	1	1,2
to dismiss	33	31.7	35	34.0	38	46.9	44	52.4	33	39.8

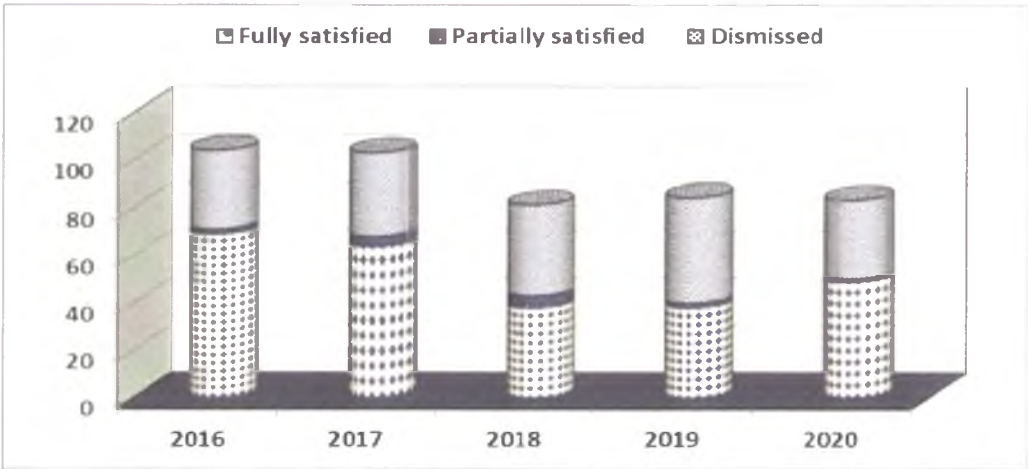


Figure 5. Opposition Outcomes

A total of 26 requests to declare a trademark to be well-known were processed, including 7 applications filed in 2020, 19 applications – in previous years. A total of 20 decisions on satisfying the applications on declaration of a trademark to be well-known in Ukraine and 2 decisions on dismissing the application were accepted, one application was withdrawn (see table 5.3).

Table 5.3. Processing of Requests to Declare a Trademark to be Well-Known in Ukraine, 2016-2020

	2016	2017	2018	2019	2020
Number of requests	30	20	13	29	7
Decisions made, incl.	12	23	9	19	22
decisions to satisfy	12	20	8	18	20
decisions to dismiss	–	3	1	1	2

5.2. Intellectual Property Rights Enforcement in Court Proceedings

In 2020, in order to ensure the representation of Ukrpatent and the Ministry, Ukrpatent specialists processed a total of 141 statements of claim received in 2020 and proceedings thereof were commenced, including:

42 cases on invalidation of trademark certificates (international registrations); 7 cases on invalidation of patents for inventions; 12 cases on invalidation of patents for utility models; 10 cases on invalidation of patents for industrial designs; 22 cases on early termination of trademark certificates (international registrations); 19 cases on decisions of the Ministry on applications for registration of intellectual property rights; 29 cases on other stated claims related, in particular, to infringement of copyright, refusal of copyright registration, invalidation of IP rights assignment agreements, invalidation of legal regulations, orders, including accreditation of collective management organizations, recognition of illegal actions.

According to jurisdictions, the proceedings initiated on the said cases in 2020, were as follows:

- in commercial courts – 62 cases;
- in civil courts – 54 cases;

- in administrative courts – 25 cases.

In order to ensure representation of Ukrpatent and the Ministry interests, representatives of Ukrpatent prepared 278 service documents (withdrawals, oppositions, statements, requests, claims).

A total of 124 decisions of courts of the first instance, appeals body and cassation courts were processed. Ukrpatent representatives took part in 331 court sessions.

To comply with the decisions by courts (decisions on enforcement of claims), measures were taken to enforce 78 statements of claim, to cancel enforcement of 31 claims, and to enforce 64 decisions by courts. A total of 560 documents on the enforcement of court judgments were sent.

In 2020, according to court decisions, 43 certificates for trademarks, 2 patents for industrial designs, 3 patents for utility models and 1 patent for an invention were invalidated (see table 5.4).

Table 5.4. Titles of Protection Invalidated by Court Decisions, 2016-2020

Industrial property rights	2016	2017	2018	2019	2020
Total, including	45	41	60	57	49
Inventions	2	1	1	2	1
Utility models	8	4	8	9	3
Industrial designs	6	5	11	9	2
Trademarks	29	31	40	37	43

5.3. Processing of Public Appeals from Individuals and Legal Entities on Intellectual Property Rights Protection and Enforcement

Ukrpatent, within its competence processes appeals of individuals and legal entities on IP rights acquisition, exercise and enforcement.

The appeals were processed pursuant to the laws of Ukraine "On Public Appeals", "On the Status of a People's Deputy of Ukraine", "On Advocacy", "On Access to Public Information".

In 2020, Ukrpatent processed 504 public appeals, including 412 appeals from individuals, 40 those from legal entities and 52 appeals from governmental authorities (see table 5.5).

Table 5.5. Appeals Received by Ukrpatent by Person Categories and Types of Appeals, 2020

Person categories	Complaints	Statements	Information requests	Total
Total, including	5	338	161	504
individuals	5	301	106	412
legal entities	-	37	3	40
governmental authorities	-	-	52	52

The above appeals were processed pursuant to the procedure and within the time limit established by legislation. Thus, a total of 180 appeals (36%) were processed for up to 5 days, 86 appeals (17%) – for up to 10 days, 74 appeals (15%) – for up to 15 days, and 164 appeals (32%) were considered for up to 30 days.

Compared to 2019, the total number of public appeals received by Ukrpatent in 2020 increased by 7%.

Out of the total number of public appeals processed in 2020, 68% of appeals (complaints and statements) were from individuals and

legal entities, 32% – public appeals from governmental authorities and lawyer requests.

The distribution of information requests by the parties of such appeals shows that 55% of the total number of requests processed in 2020 were lawyer requests for information on registered intellectual property rights, on filing oppositions against applications for trademarks, appeals against decisions on applications and the matters on restitution of rights; 34% of requests were received from governmental authorities and legal entities; 11% represent information requests and public information requests from individuals and legal entities (see table 5.6).

Table 5.6. Public Appeals Processed by Ukrpatent, 2016-2020

Types of requests	2016	2017	2018	2019	2020
Statements, complaints	127	122	119	293	343
Requests, including:	35	135	126	172	161
requests from governmental authorities and legal entities	22	74	44	75	55
lawyer requests	7	51	68	88	89
public information requests	6	10	14	9	17

6 Participation in International Cooperation Activities in the Intellectual Property Sphere and Implementation of International Projects

Ukrpatent in agreement with the Ministry for Development of Economy, Trade and Agriculture of Ukraine (Ministry) as the central executive body ensuring the state policy implementation in the intellectual property (IP) sphere determining the development prospects in this area participates in international cooperation activities in the field of IP.

6.1. Cooperation with WIPO

With the purpose to ensure Ukraine's participation in implementation of WIPO policy with due consideration of the national interests of our state, Ukrainian experts participate in the work of the decision making bodies of WIPO as well as its principle committees and working groups on a regular basis.

The list of WIPO events attended by specialists of Ukrpatent in 2020 is presented in table 6. Most WIPO events took place in online or hybrid formats, given the global outbreak of COVID-19 coronavirus and introduction of WIPO anti-pandemic restrictions.

Table 6. WIPO Events Attended by Specialists of Ukrpatent

Event Title	Event Venue and Date
Working visit of the WIPO Expert Group to consult on the implementation of the Small and Medium-sized Enterprises (SMEs) Project and their access to the use of state-funded/ emerging innovations	Kyiv, Ukraine February 25-27, 2020
Meeting of International Authorities under the PCT (PCT/MIA): Twenty-Seventh Session; Meeting of the PCT/MIA Quality Subgroup	Gatineau, Canada, February 3-7, 2020
Committee of Experts of the IPC Union: Fifty-Second Session	Geneva, Swiss Confederation, February 19-20, 2020
Online working meeting of representatives of the Ministry for Development of Economy, Trade and Agriculture of Ukraine and Ukrpatent with representatives of the WIPO Department For Transition and Developed Countries	Geneva, Swiss Confederation, May 4, 2020
Online conference "WIPO-Ukraine IP Week"	Geneva, Swiss Confederation,

Event Title	Event Venue and Date
	Kyiv, Ukraine July 6-10, 2020
WIPO Conversation on IP and AI: Second Session (virtual)	Geneva, Swiss Confederation, July 7-9, 2020
Four-week training online program "Teaching Methodologies" aimed to increase human resources in the field of IP	Geneva, Swiss Confederation, Kyiv, Ukraine July 14 - August 12, 2020
Round table for the National Intellectual Property Training Institutions (IPTIs)	Geneva, Swiss Confederation, July 15, 2020
Online conference "Mediation of intellectual property in Ukraine"	Geneva, Swiss Confederation, September 7, 2020
Virtual Exhibition "WIPO: AI and IP, a Virtual Experience" to analyze IP policy in terms of the impact of artificial intelligence	Geneva, Swiss Confederation, September 18, 2020
Online conference on the Global Digital Content Market exploring the latest developments in the creative industries sector	Geneva, Swiss Confederation, September 16-18, 2020
Assemblies of the Member States of WIPO: Sixty-First Series of Meetings (hybrid)	Geneva, Swiss Confederation, September 21-25, 2020
Collaborative online event of WIPO and Frankfurter Buchmesse on the global issues of the publishing, creative content and intellectual property	Geneva, Swiss Confederation, October 14, 2020
WIPO Conversation on IP and AI: Third Session (virtual)	Geneva, Swiss Confederation, November 4, 2020
WIPO Standing Committee on the Law of Trademarks, Industrial Designs and Geographical Indications (SCT): Forty-Third Session (hybrid)	Geneva, Swiss Confederation, November 23-26, 2020
Committee on WIPO Standards (CWS): Eighth Session (hybrid)	Geneva, Swiss Confederation, November 30 - December 4, 2020
Online seminar on drafting patent applications "WIPO Virtual National Patent Drafting Workshop"	Geneva, Swiss Confederation, Kyiv, Ukraine December 07-11, 2020
WIPO PCT Minimum Documentation Task Force: Second Session	Virtual December 7-11, 2020
WIPO Standing Committee on the Law of Patents: Thirty-Second Session (hybrid)	Geneva, Swiss Confederation, December 7-10, 2020
Online conference "International experience and practical application of IP mediation in Ukraine" in order to get acquainted with the peculiarities of the mediation process in the field of IP	Geneva, Swiss Confederation, Kyiv, Ukraine December 10-11, 2020



The official visit of representatives of the WIPO Expert Group to Ukraine on February 25-27, 2020 was an important event aimed at consulting on the implementation of the Small and Medium-sized Enterprises (SMEs) Project and their access to the use of state-funded/emerging innovations. Working meetings within the framework of this Project were held at the Cabinet of Ministers of Ukraine, the Ministry of Education and Science of Ukraine, the National Academy of Sciences of Ukraine, the Ukrainian Chamber of Commerce and Industry, Ukrpatent and the UNIT.City Innovation Park. The following issues were discussed during the meetings: practices of IP rights management in the government sector and importance of the IP audit; digitalization of IP; private sector participation in public procurements; commercialization of governmental-owned IP; the role of Ukrpatent in the management of IP assets financed/formed in the government sector; support schemes for SMEs in the SMEs Development Office, TISC and Ukrpatent; private sector financing, the need for state-funded schemes for licensing and access to innovations; data as an asset managed by governmental authorities, etc.

In February 2020, specialists of Ukrpatent participated in the 10th annual meeting of the PCT/MIA Quality Subgroup as well as in the 27th meeting of the International Authorities under the Patent Cooperation Treaty (PCT/MIA). It should be noted that Ukrpatent specialists annually join the work within the said meetings starting from 2016 when the office was appointed as an ISA/IPEA.



In May 2020, working online meeting of specialists from the Ministry and Ukrpatent was held with representatives of the WIPO Department for Transition and Developed Countries, headed by the Director, Michal Svantner. The discussion was focused on the

current format of Ukrpatent's work, transition to remote work and online events; current status of filing applications under the national and international procedures, the status of implementation of the WIPO Technology and Innovation Support Centers (TISC) projects in Ukraine, the National Intellectual Property Training Center (IP Academy) and Mediation Centers, ways to further develop IP sphere in Ukraine and other issues.

From July 6 to 10, 2020, the online conference "WIPO-Ukraine IP Week" was held on the Zoom video conferencing platform. The five-day online conference "WIPO-Ukraine IP Week" organized by the Ministry and Ukrpatent in cooperation with WIPO resulted in 12 lectures, 14 speakers and more than 120 participants. During the event issues were discussed that determine the opportunities and prospects for the development of the IP sphere, namely IP protection, patent law, international patent registration under the PCT system, protection of rights to trademarks in Ukraine and abroad, the Madrid system, the importance of copyright for the development of creative industries and the inter-national system of copyright and related rights, creative industries in Ukraine, the system of legal protection of IP in Ukraine in the context of the reform of the sphere and others.

The second (July 7-9) and third (November 4) sessions of the WIPO Conversation on IP and AI were held in an online format during the year as well. In the elaboration of the Conversation a wide range of issues was discussed related to those aspects of AI that are directly related to IP, including the management of administrative processes in the field of IP, IP policy, exchange of information on IP and AI strategies.

As part of the Sixty-First Series of Meetings of the Assemblies of the Member States of WIPO, which took place on September 21-25, 2020 in Geneva in a hybrid format, the Deputy Minister for Development of Economy, Trade and Agriculture of Ukraine Oleksandr Romanishyn met with the WIPO Director

General Francis Gurry to discuss the state of bilateral cooperation in the field of IP and ways to intensify it, the implementation of institutional reform of the IP system in our country, its approximation to the best world standards and implementation of the concept of the National Strategy for Innovation and Intellectual Property. They also discussed the importance of preventing the use of the Madrid system of international registration of marks to legitimize the temporary occupation of the Autonomous Republic of Crimea and the city of Sevastopol by the Russian Federation. During the meeting, the Memorandum of Understanding was signed between the Ministry and WIPO on the provision of data for the WIPO ALERT data exchange platform.



In terms of WIPO's initiatives aimed at developing the global IP infrastructure, in particular by improving access to information and promoting its use, WIPO and Ukrpatent launched cooperation on joint activities aimed at improving IP services in 2019. As a result of cooperation in 2020, Ukraine joined the projects for the development of global databases related to trademarks (Global Brand Database) and industrial designs (Global Design Database). Now WIPO's resources include Ukrainian national trademark and industrial designs collections.

WIPO traditionally invites Ukrainian specialists to participate in regional seminars, learning courses and trainings on IP issues.

6.2. Implementation of International Projects Coordinated by WIPO

Implementation of the Technology and Innovation Support Centers project (TISC)

The process of creating the TISC network in Ukraine was initiated with signing the Memorandum of Understanding between the Ministry for Development of Economy, Trade and Agriculture of Ukraine (Ministry) and the World Intellectual Property Organization (WIPO) on the establishment of Technology and Innovation Support Centers in Ukraine. The project operates on the basis of the Division of the Technology Support Centers Network Administration within the Department of Intellectual Property Relations Development of Ukrpatent.

The purpose of the central TISC is:

- implementation of the tasks defined in the Memorandum, namely facilitating access to technological information and increasing opportunities for effective use of such information;
- creation of the TISC network by involving institutions working with intellectual assets in the project (higher education institutions, research institutions, engineering departments, enterprises, etc.);
- raising awareness in the field of IP rights, namely on acquisition, exercise and protection of rights;
- providing free consultations in the field of IP rights for applicants;
- conducting training and skills upgrading in the field of IP law for representatives of regional TISCs.

Establishment of a regional TISC is provided by signing a memorandum of cooperation and an agreement on participation in the TISC project with the authority responsible for the project in Ukraine (Ukrpatent). The provisions of the memorandum and the agreement include joint participation in the implementation of the tasks defined in the Project Document of the Memorandum.

As of December 31, 2020, 15 regional Technology and Innovation Support Centers have been established in Ukraine, 5 of them

in 2020 on the basis of the Agency for Regional Development in Ternopil region, Luhansk State Medical University, the State Space Agency of Ukraine, the State Enterprise "Space Innovation and Investment Company", Bohdan Khmelnytsky Cherkasy National University, the National Technical University of Ukraine "Ihor Sikorsky Kyiv Polytechnic Institute".

Implementation of the Project for the Establishment of National Intellectual Property Training Centers

In accordance with the Memorandum of Understanding between WIPO and the Ministry, the project on the creation of national educational center in the IP sphere (IP Academy) was launched. The implementation of the Memorandum and the functions of the IP Academy in Ukraine are entrusted to the Division for Educational Programs and Activities within the Department of Intellectual Property Relations Development of Ukrpatent.

The mission of the IP Academy is:

- promoting the popularization of knowledge, formation and development of culture in the field of IP to ensure sustainable development of Ukraine;
- promotion of comprehensive creative development of the population;
- raising awareness of IP protection among specialists in certain fields (including training, retraining and skills upgrading);
- intense activity in the field of education and science: conducting scientific research and specialized conferences, developing proposals for the formation of the state policy in the field of IP (law-drafting activities), etc.;
- assistance in development and strengthening of human resources in the field of IP in Ukraine.

In 2020, in order to implement provisions of the Memorandum, the following work was carried out:

- the project document on the establishment of the National Intellectual Property Training Center of the Ministry and WIPO is developed and approved;
- the draft business plan for 2022-2025 is developed;

- the Catalog of Courses, in particular the curriculum on copyright and related rights for the music industry "Collective Management of Copyright and Related Rights for the Music Industry and CMOs"; the curriculum on IP rights "Commercialization of IP Rights for Lawyers, IP Professionals and CMOs" are prepared;

- training of teachers for the National Intellectual Property Training Center has started (training on the following modules has been completed: First Training Module "Basic Teaching Methodologies" (Part 1); DL-450; E-learning);

- building up a library of the Academy has been started.

Implementation of the Project on Alternative Dispute Resolution in the Field of Intellectual Property

According to the Memorandum of Understanding between the Ministry and the WIPO on alternative dispute resolution in the field of IP, the project aims to:

- provide services for alternative and effective settlement of disputes in the field of IP in Ukraine and abroad in accordance with the WIPO Rules for Mediation, as well as training and skills upgrading of specialized mediators of IP in Ukraine.

- conduct educational activity aimed at raising awareness of the alternative dispute resolution procedure in the field of IP among stakeholders in Ukraine.

In 2020, in pursuance of the provisions of the Memorandum an interactive lecture was held for IP representatives on "Mediation in IP: to be or not to be", as well as thematic interactive online conferences, workshops, lectures and webinars.

6.3. Cooperation with the European Patent Office

In 2020, Ukrpatent continued bilateral cooperation with the European Patent Office (EPO) in the field of the use of information resources:

- the EPO, within the framework of the executed agreement, provided Ukrpatent with access to the EPO's EPOQUE Net system during 2017–2020;

- Ukrpatent continued to upload current assets of the national patent documentation to the EPO's FTP server to fulfill the obligations set by the current agreement on Ukrpatent's access to the EPO's EPOQUE Net system, and to ensure representation of the Ukrainian patent documentation in the EPO's Espacenet Internet resource.

In August 2020, a working video conference meeting of specialists of the Ministry for Development of Economy, Trade and Agriculture of Ukraine and Ukrpatent with representatives of the EPO took place. At the meeting, the EPO was represented by Carlo Pandolfi, Director of International Cooperation, and Antoine Reti, Administrator International Relations. In the course of the event, the EPO representatives got acquainted in detail with the progress of the state system of IP legal protection reform in Ukraine as well as with the latest legislative changes, the parties discussed issues of intensifying bilateral cooperation, including trainings for Ukrainian examiners.

In September-November 2020, three EPO webinars for Ukrpatent examiners were held on topical issues of examination of applications related to the pharmaceutical industry. Lectures by the EPO's specialists were based on practical examples of assessing the inventive step of subject matters like isomers, metabolites, polymorphs, new crystalline forms and their salts which are characterized by specific physicochemical or pharmaceutical properties and/or certain biological activity, as well as other specific subject matters in the field of pharmaceuticals and biotechnology.

At the end of the year, the EPO organized an online conference "The role of patents in an AI driven world" (December 17-18, 2020). The conference presented updated strategic projects of the EPO and IP5 partner offices related to patenting and considered the legal aspects of patentability of innovations related to artificial intelligence. The results of the study on the Fourth Industrial Revolution were

also presented and technical documents and proposals of the European Commission and the European Parliament on artificial intelligence and IP, etc. were proposed for discussion.

6.4. Bilateral Cooperation



In February 2020, a representative of the US Embassy in Ukraine, Attaché for Intellectual Property in Eurasia Dorian Mazurkevich visited Ukrpatent. The meeting focused on further development of Ukrpatent's cooperation with the United States Patent and Trademark Office (USPTO), in particular, among the possible challenging initiatives, the possibilities of organizing multilateral meetings for a comprehensive exchange of experience between specialists of the state system of IP legal protection, which will represent the Eurasian countries, was discussed.

In May 2020, an online conference "Intellectual Property – Vision without Illusion" was held as part of the celebration of the 100th anniversary of the state system of IP legal protection in Latvia, which was attended by representatives of Ukrpatent. The conference program was devoted to the history and achievements of the Latvian Patent Office throughout its operation as well as the analysis of the role of IP for economic development, the impact of counterfeiting on trade development, identifying prospects for cooperation between IP market participants and research organizations, coverage of the Latvian experience in quantum measurements, etc.

In November 2020, an online event dedicated to some aspects of the implementation of the Agreement on Trade-Related Aspects of Intellectual Property Right (TRIPS) in the context of the COVID-19 pandemic was organized by the American University Washington College of Law (AUWCL) under the Program on Information Justice and Intellectual Property (PIJIP), the American Branch of the International Law Association, the Center for Law and Intellectual Property (CLIP) at Texas A&M University. The purpose of the event was to discuss the proposal submitted by India and South Africa at the meeting of the Council for TRIPS on October 15-16, 2020 regarding the temporary waiver from certain provisions of the TRIPS Agreement regarding copyright, industrial designs, inventions and protection of undisclosed information for the "prevention, containment and treatment" of COVID-19.

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

7.1. Internet Resources of Ukrpatent

In 2020 the works on updating and improving the official website of Ukrpatent www.ukrpatent.org continued. During the year, over 420 information items were posted on its webpages in Ukrainian and English, the majority of which belong to the "News" category. Constant and dynamic sections were updated with topical information on the events which took place in the state system of intellectual property (IP) legal protection throughout the reporting year. Over 960 photographic materials and thematic images were published as a part of the coverage of offline and online events.

Sections and certain subsections, useful both for specialists of the system and for applicants and interested parties (Industrial Property Rights, Databases and Information and Reference Systems, Fees and the State Duty, Patent Information Collections, Legislation and Standards, For Users of Patent Information, etc.) were regularly updated with new data.

In 2020 the Ukrpatent website attendance ratio exceeded 783 thousand users (139 thousand more than in the previous year). The total number of the navigated web-resource pages was around 2.5 million (see figure 7.1)

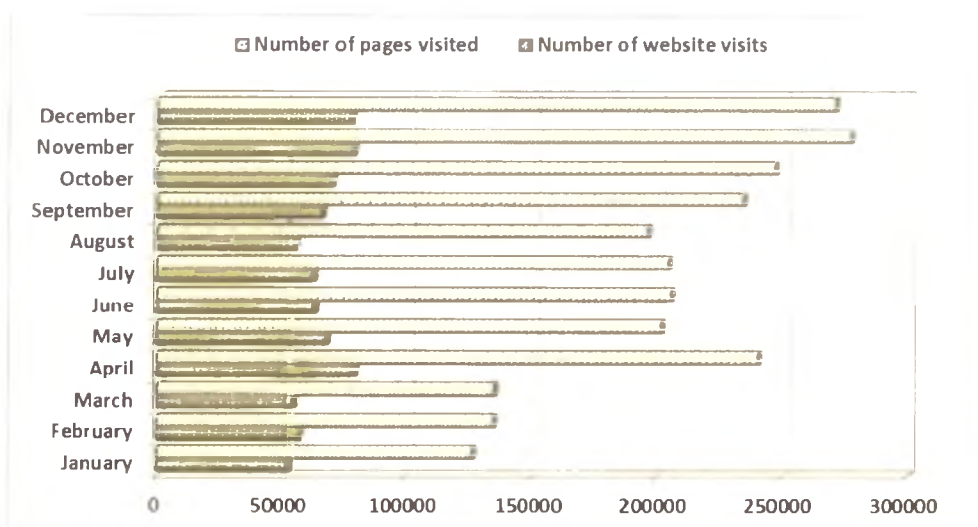


Figure 7.1. The number of visitors to the official website of Ukrpatent (www.ukrpatent.org), 2020

About 82% visitors to the website of Ukrpatent were Ukrainian citizens. The informa-

tion on foreign countries visitors to the website is presented in figure 7.2.

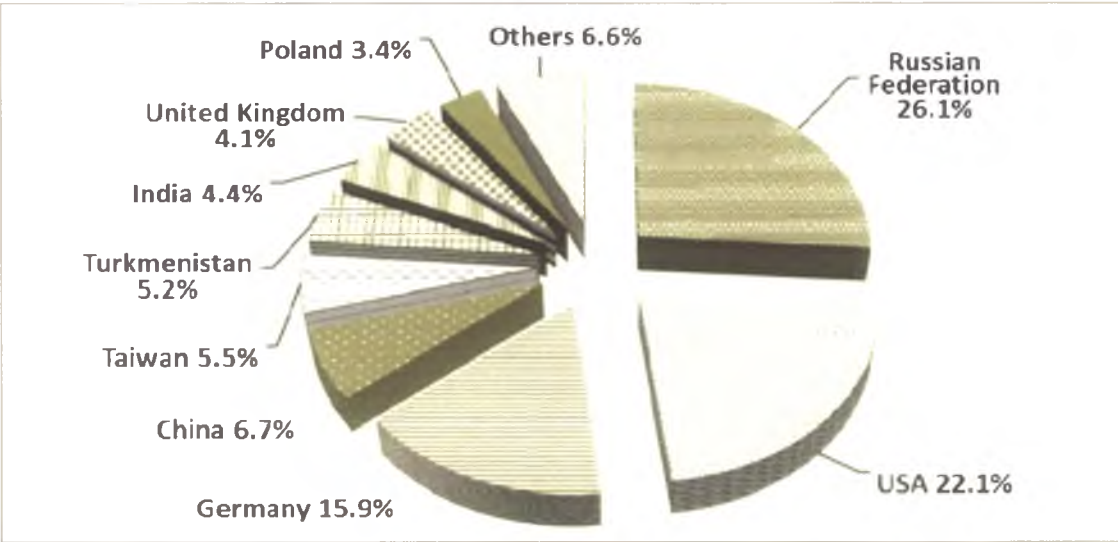


Figure 7.2. Foreign countries visitors to the official website of Ukrpatent (www.ukrpatent.org), 2020

During 2020, information content management and maintaining of Ukrpatent websites was carried out: "Department of Patent Information Services, Consultations and Promotion of Innovative Activities of Ukrpatent" (iii.ua), "Industrial Property Internet Exchange" (exchange.iii.ua), "Factory of Ideas" (fabrikaidei.iii.ua), "All-Ukrainian Competition "Invention of the Year". More than 920 information materials were published on these resources, with more than 630 news items among them, and more than 1,290 photo materials were prepared and posted.

In 2020, over 410 publications, over 1,100 photos and illustrations were posted on the official page of Ukrpatent on Facebook.

The innovative and information resource the Industrial Property Internet Exchange (exchange.iii.ua) provides information on patented inventions, utility models, industrial designs, registered trademarks and is designed to promote inventions and other industrial property rights on the market, to seek actively potential investors and to place orders from the industrial economic sector. The main purpose of the Factory of Ideas (fabrikaidei.iii.ua) is to identify, support and promote development of the gifted school, college and university students, young scientists, inventors and

researchers. The said Internet resources provide users with necessary information about partners and investors, relevant grants, competitions, conferences, research programs. In the reporting year, 152 projects related to inventions and utility models were produced, placed and updated at the Industrial Property Internet Exchange; 216 projects were produced, placed and updated at the Factory of Ideas.

In 2020, in order to provide information support and highlight peculiarities of IP rights use the "Information Support of Invention Activities" section which contains "Methodological Support", "Grant Programs" and "Success Stories" subsections was updated on the website of the Department of Patent Information Services, Consultations and Contribution to Innovative Activities of Ukrpatent.

The first subsection – Methodological Support – is devoted to IP rights commercialization: accounting records, IP rights valuation, business plan development, marketing, actual methods of promoting scientific and technical developments, the ways to attract investors to finance innovation projects.

The second subsection – Grant Programs – is the support in finding sources of funding where information on grants and a clear algorithm how to win a grant in order to facilitate

understanding of the specifics of work with grants. Participation in a grant competition is an invaluable experience that will let one to determine needs, to comprehend modern business trends and social demands.

The third subsection – Success Stories – contains examples of IP rights utilization, creation of startups, market promotion thereof in foreign countries.

As a part of implementation of the international project for creation of Technology and Innovation Support Centers (TISC), a new web-portal of the TISC network in Ukraine <https://tisc.net.ua/> was developed and launched.

7.2. Interactive Databases and Information and Reference Systems

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

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

- DB "Electronic Version of the Cumulative Official Bulletin "Promyslova Vlasnist" (Industrial Property);
- Specialized DB "Inventions (Utility Models) in Ukraine";
- Shared DB "Information about Invention Applications Accepted for Examination";
- DB "Marks for Goods and Services Registered in Ukraine";
- DB "Information on Well-Known Marks in Ukraine";
- Interactive DB "Applications for Marks for Goods and Services Accepted for Examination";
- Interactive DB "Industrial Designs Registered in Ukraine";
- DB "Information on Qualified Appellations of Origin Registered in Ukraine";
- IRS "Invention and Utility Model Applications Prosecution State";

- IRS "Information about Patents of Ukraine for Inventions (Utility Models) Deemed to be Invalid or Expired";

- IRS "Information about Prosecution State of Applications for Marks for Goods and Services";

- IRS "Information about Certificates of Ukraine for Marks for Goods and Services being Terminated or Deemed to be Invalid";

- IRS "Industrial Design Applications Prosecution State";

- IRS "Information about Patents of Ukraine for Industrial Designs Deemed to be Invalid or Expired".

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

Users of IRSs for international classifications have the opportunity of convenient and quick access to all editions/versions of classifications translated into Ukrainian which have expired and are available for information purposes to the full extent. Thus, in IRSs for the International Patent Classification (IPC), the International Classification of Goods and Services for the Purposes of the Registration of Marks (NCL), the International Classification for Industrial Designs (LOC) and the International Classification of the Figurative Elements of Marks (VCL) the option of access to the full array of classification materials translated into Ukrainian is implemented: from IPC 2006.01 to IPC 2020.01, from NCL (7) to NCL (11-2020), from VCL(6) to VCL(8), from LOC (9) to LOC (12).

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

Development and improvement of a new information resource named the Ukrpatent Special Information System (SIS) (<https://sis.ukrpatent.org/uk/search/simple/>), launched in 2019, is carried out. The SIS provides access to information on all industrial property rights in the mode as close as possible to the real time. The functionality of the resource has been expanded. The system search mechanism which has a universal

search interface provides open and authorized access (using a qualified electronic signature) to any document of the electronic file of an IP right. The SIS has two search mechanisms: simple and advanced. The advanced search has additional search tools that can be used to restrict the search by category of IP right and its legal status. Also, the Official Electronic Bulletin page was added to the content of the SIS in 2020 that provides access to the information on trademark applications for which the filing date is established and to the information on international trademark registrations with extension to the territory of Ukraine.

In 2020, about 80 thousand users accessed the services of Internet databases to perform around 2.9 million searches and to view 7.4 million documents.

7.3. Publications in the Sphere of Intellectual Property Rights Protection

In the reporting year, publication of the official data on intellectual property rights was carried out in the official bulletins "Industrial Property" and "Copyright and Related Rights" in accordance with the Order of Ukrpatent No. 01-H/2020 as of January 2, 2020.

Replication of the bulletins and their distribution in compliance with the registries of free-of-charge distribution approved by Ukrpatent was carried out in accordance with

the Law of Ukraine "On Mandatory Copies of Documents".

The Bulletin "Industrial Property" was issued twice a month and the Bulletin "Copyright and Related Rights" – six times per year.



Analytical and statistical materials on applications filed and industrial property rights registered, in particular, indicators of inventive activities of the national applicants are illustrated quarterly in the electronic publication "Industrial Property in Figures" (<https://ukrpatent.org/uk/articles/promvlas-tsyfra>).

In table 7.1 the figures on total number of publications on industrial property rights in 2020 are presented.

Table 7.1. Publications on Industrial Property Rights, 2020

Type of Publication	Number of Publications
Applications for inventions accepted for examination	3,514
Patents of Ukraine for inventions	2,180
Patents of Ukraine for utility models	6,389
Patents (certificates) of Ukraine for industrial designs	2,045
Certificates of Ukraine for trademarks	19,806
Well-known trademarks in Ukraine	24
Applications for the registration of geographical indications accepted for examination	688
Registration of geographical indications	4
Trademarks registered under the Madrid Agreement Concerning the International Registration of Marks and/or the Protocol Relating to the Madrid Agreement Concerning the International Registration of Marks to which protection was granted in Ukraine	8,228

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 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. Delivery of patent documentation was provided according to the registries of free-of-charge distribution approved according to the established procedure (see table 7.2).

Table 7.2. Distribution of Patent Information Products on Optical Carriers, 2020

Patent information product	Free-of-charge distribution		Paid distribution
	Ukrainian organizations	Intellectual property offices or organizations	
	Yearly sets		
CD-ROM Official Bulletin "Industrial Property"	28	4	5
CD-ROM "Inventions in Ukraine"	20	3	–
CD-ROM "Marks for Goods and Services Registered in Ukraine"	1	–	–
CD-ROM "Industrial Designs Registered in Ukraine"	–	–	–
CD-ROM Official Bulletin "Copyright and Related Rights"	13	–	–

7.4. The Public Patent Documentation Collection (PPDC)

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

In the reporting period, the acquisition of the PPDC by national and foreign patent documentation continued, in particular, it was supplemented, with 113 optical discs. As of December 31, 2020, the PPDC collection on optical media contained over 34 thousand copies. Taken as a whole, the PPDC collection consists of national and foreign patent documentation from 65 countries from all over the world as well as from 4 international and regional organizations and it is represented on paper and electronic carriers. The PPDC is also supplied with scientific and technical

literature, methodical, reference-and-information publications and periodicals.

In 2020, in order to provide access to patent information for the general public that is necessary for industrial property rights study and analysis in the process of their creation, legal protection and use, the List of Foreign Industrial Property Databases with Free Internet Access (as of December 30, 2020 the resources of 60 patent offices are presented) and the List of Scientific and Technical Databases and Reference Resources with Free Internet Access were quarterly updated in the Hyperlinks section on the website of Ukrpatent.

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

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

In 2020, in order to meet the needs of legal entities and individuals in services related to acquisition and utilization of intellectual property rights, a total of 10,358 agreements were concluded by the Department of Patent Information Services, Consultations and Promotion of Innovative Activities of Ukrpatent in accordance with the current procedure.

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

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

In 2020, advisory services on general and informative issues were provided free of

charge. The total of 42,648 requests was received by the Department of Patent Information Services, Consultations and Promotion of Innovative Activities of Ukrpatent for the period under review.

Consultations on frequently asked questions were provided daily, namely on the issues relating to:

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

Pursuant to inquiries of the Ministry of Justice of Ukraine, court-appointed managers, trustees in enterprises bankruptcy, 2,833 name (company) information searches of data on IP rights in Ukraine were carried out, including on a paid basis. In the reporting year, practical, methodological assistance was provided to applicants and holders of titles of protection for IP rights in the matters relating to intellectual property commercialization and to accounting records of intangible assets usage and taxation of the related transactions.

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

8.1. Training Events to Improve Professional Level and Skills of Specialists in the Field of IP

In 2020, for professional development and to improve skills Ukrpatent specialists took

part in a number of field-specific IP events organized both in Ukraine and abroad.

In the reporting year, about fifty specialists of Ukrpatent took part in WIPO webinars (Table 8).

Table 8. WIPO Webinars Attended by Ukrpatent Specialists

Webinar Title	Date
PATENTSCOPE for expert users	March 10-12
Chemical search in PATENTSCOPE	April 21-23
Translation tools available in PATENTSCOPE	May 05-07
Filing an international application under the Madrid System	May 19
The Madrid System online services	May 27
The result list in PATENTSCOPE	June, 16-18
Presentation on WIPO PROOF	June 24 and 25
Madrid Monitor and the Global Brand Database	July 21
WIPO Artificial Intelligence Tools and Services	October 6
The Lisbon System	October 29
Filing an international application for an industrial design under the Hague System	November 5
Adapting your International Registration to your Business Needs: Presenting and Recording Changes	November 17
Requesting Certified Document from the Madrid Registry	December 8

During 2020, more than two dozen of Ukrpatent specialists completed WIPO educational courses, such as:

- General Course of Intellectual Property (DL-101);

- Introduction to the Patent Cooperation Treaty (DL101PCT);
- Advanced Course on Copyright and Related Rights (DL-201);

- Advanced Course on Intellectual Property, Traditional Knowledge and Traditional Culture Expressions (DL-203);

- Advanced Course on Patents (DL-301);

- Advanced Course on Trademarks, Industrial Designs and Geographical Indications (DL-302);

- Specialized Course on the Madrid System for International Registration of Marks (DL-303);

- Advanced Course on Arbitration and Mediation Procedure under the WIPO Rules (DL-317);

- Advanced Course on Patent Information Search (DL-318);

- Advanced Course on Basics of Patent Drafting (DL-320);

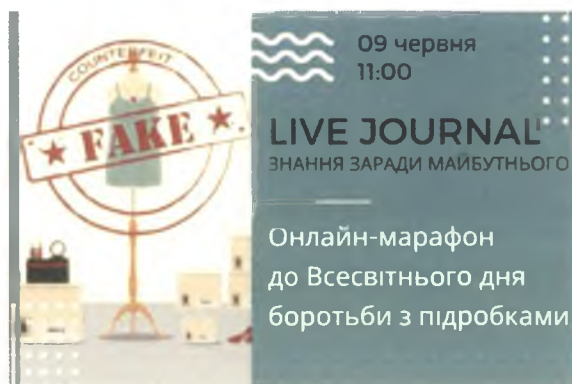
- Advanced Course on Intellectual Property Management (DL-450).

In order to improve professional knowledge and skills, close to twenty Ukrpatent specialists graduated from the Kyiv Institute of Intellectual Property and Law of the National University "Odessa Law Academy" with a Master's degree in IP rights.

8.2. Information and Educational Activities

In 2020, in order to popularize the sphere of IP, to support and encourage inventive and innovation activities Ukrpatent held a number of educational activities among the general public, including online, in consequence of introduction of pandemic restrictions around the world. In particular, they are the following: online conferences "Intellectual Property Mediation in Ukraine" and "Intellectual Property Rights & COVID-19: Private and Public Interests"; round tables and meetings with patent attorneys of Ukraine and IP specialists; seminar meetings on the occasion of the World International Property Day and the Day of Inventor and Innovator; series of online seminars "Lawyers VS Marketers", "I am the Brand or How to Make Money off a Personality" and "IP Basics & Medicine"; online round table "Libraries Today: New

Challenges and Opportunities"; webinars "Webmediation: New Requirements and Rules in the Process of Mediation in the Field of IP", "Intellectual Property Audit", "New in Trademarks Legal Protection"; XIII International Business Forum "Problems and Prospects for Innovation Activity Development in Ukraine"; IV International Forum "Creative Ukraine"; field-specific on-line events of the National Intellectual Property Training Center, etc.



On the occasion of the World Anti-Counterfeiting Day (marked on June 10), a large-scale online marathon organized by Ukrpatent together with the Ukrainian Alliance Against Counterfeiting and Piracy (UAACP), was held. The marathon was attended by 22 speakers from public and private sectors which told about their attitude towards counterfeiting and progress in combating the proliferation of forgeries, since counterfeiting to a large extent relate to health care and life support.

At the beginning of 2020, a meeting of Ukrpatent specialists with representatives of the State Enterprise "Medical Procurements of Ukraine" was held. The purpose of the meeting was to discuss issues relating to introduction of medicines to the Ukrainian market by conducting public procurements, in particular in terms of IP. The possibilities of information exchange was discussed, including information searches on new drugs, additional freedom-to-operate searches to minimize risks in tender procedures, the use of Ukrpatent resources as the ISA, obtaining the necessary confirmation documentation, etc.

In February 2020, the Memorandum on Cooperation between Ukrpatent and the Ukrainian Chamber of Commerce and Industry (UCCI) was signed in order to enhance awareness of small and medium-sized businesses in the matters of IP rights protection and inventive activities promotion.



During the reporting year cooperation with patent attorneys continued, in particular on August 11, 2020 a working meeting was held with representatives of the All-Ukrainian Association of Patent Attorneys (AUAPA) which was focused on actual issues of reforming the IP sphere in Ukraine and interaction of Ukrpatent and the AUAPA. The parties exchanged views about the following steps for the reform implementation and emphasized the need to enhance interaction between patent attorneys and the IP Office. Updating the state register of representatives on IP matters, change of fees amounts, strengthening the status of examiners, their involvement in court proceedings, improvement of legislative activities, introduction of new electronic services for applicants, optimization of Ukrpatent activities in the context of the COVID-19 pandemic, etc. were also discussed.

In the framework of popularization of the information and educational activities of Ukrpatent, information about reports presented by specialists of Ukrpatent at various IP events, as well as articles and information materials published in magazines "Intellectual Property in Ukraine" and "Inventor and Innovator" was published in the Ukrpatent website section

"Articles and Materials of Events". In addition, the "Thematic Publications on Prominent People, Memorable Dates and Events" cycle in the "Articles and Materials of Events" section was replenished with articles during the year.

8.3. Promotion of Creativity

In 2020, Ukrpatent, with the support of the Ministry, revived the tradition of holding the "Invention of the Year" Competition.

The 2020 "Invention of the Year" Competition (Competition) was held in an updated format in cooperation with UCCI. This made it possible to attract attention to Ukrainian developments; to identify the most promising inventions of the recent years and build an effective system of inventors' relations with international and national investors, industry and business.



In 2020, according to the updated Regulations on the Competition, only developments protected by patents of Ukraine for inventions registered over the past 5 years were accepted for participation. In total, 244 works took part in the Competition. It is also worth noting that 87% of the total volume of competitive developments was filed by the scientific institutions of Ukraine.

The Competition was carried out in three stages.

In the first stage, during February 2020, the working group of Ukrpatent accepted and processed competitive materials. At the same

time, an active information and advertising campaign was carried out; numerous consultations regarding the conditions of participation in the Competition and rules of documents preparation were provided; application materials were checked for compliance with the terms of the Competition and their preliminary evaluation according to the established criteria was carried out.

In the second stage, the Expert Council of Ukrpatent evaluated all the submitted materials according to the criteria established by the Regulations on the Competition and identified nominees in 12 branches that met the most relevant areas of innovation activity.

In the third stage, the Competition Committee considered the results of the Expert Council work. Due to the nationwide quarantine introduced by the Cabinet of Ministers of Ukraine throughout all the territory of Ukraine, the meeting of the Competition Committee was held in online mode. The results of the Competition were analyzed and the winners were decided. The following "qualitative" indicators were taken into account: originality of a technical solution, complexity of the raised and solved task, social and humanitarian significance.

All participants of the Competition were awarded diplomas and gratitude was expressed for interesting promising works. The winners in each of the 12 branch nominations received special honors:

"Construction" – the National University "Lviv Polytechnic" (patent for invention No. 116303 "Binding matter");

"Modern Industrial Technology and New Equipment" – the State Research Institute of the Ministry of Internal Affairs of Ukraine (patent for invention No. 121034 "Modular battering ram");

"Energy and Energy Efficiency" – the Institute of Technical Thermophysics of the National Academy of Sciences of Ukraine (patent for invention No. 116663 "Method for obtaining high-calorie biofuels");

"Ecology" – the D.K. Zabolotny Institute of Microbiology and Virology of the National

Academy of Sciences of Ukraine (patent for invention No. 120695 "Complex activator of acetone-butyl fermentation on the basis of strains of bacteria of the genus *Clostridium*");

"New Substances and Materials" – the State Higher Educational Institution "Ukrainian State Chemical Technological University" (patent for invention No. 113443 "Method for obtaining a modified active cathode material for lithium-ion batteries");

"Agro-Industrial Complex Technology" – Sukhin V.S., Chornobay I.V. (patent for invention No. 116073 "Method of separation with additional cleaning of grain material and aerodynamic separator "CAД" for its implementation");

"Medicine" – the State institution "Heart Institute of the Ministry of Health of Ukraine" (patent for invention No. 111928 "Method of treatment of calcified aortic stenosis");

"Pharmaceuticals" – the O.V. Palladin Institute of Biochemistry of the National Academy of Sciences of Ukraine (patent for invention No. 119584 "Means for treatment of the human hepatitis C");

"Food Production" – the Institute of Food Resources of the National Academy of Agrarian Sciences of Ukraine (patent for invention No. 111130 "Method for determining *Streptococcus thermophilus* cultures using a pair of specific oligonucleotide primers by method of polymerase chain reaction");

"Metallurgy" – Stetsko A.Ye. (patent for invention No. 119296 "Method of diffusion chromium plating of steel products");

"Defense and State Security" – the International Scientific and Training Center for Information Technology and Systems of the National Academy of Sciences and the Ministry of Education and Science of Ukraine (patent for invention No. 119692 "Method of optical-acoustic direction finding and group counteraction to enemy unmanned aerial vehicles");

"Processing of Industrial and Household Wastes" – the I.I. Mechnykov Odessa National University (patent for invention No. 120325 "Microbiological method of water purification from cyclic aromatic xenobiotics").



Representatives of Ukrpatent took an active part in organization and conducting the Final of Stage II of the XIX All-Ukrainian Championship on Information Technology "Ecosoft-2020"

and the National Tour of the International Competition of Computer Projects "Infomatrix 2020" held on February 25-28, 2020 on the basis of the National Ecological and Naturalistic Center for Student Youth (NENC) of the Ministry of Education and Science of Ukraine. The evens have been held by the NENC with support of Ukrpatent since 2002 as open individual-team competitions of students of general educational, vocational and technical educational institutions, students and postgraduates of higher education institutions as well as young professional developers in order to support and encourage inventive and innovation activities among young people.

Annexes

1. Statistics

1.1. Applications for inventions by origin and procedure, 2016-2020

Code	Country	National procedure					PCT procedure				
		2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
UA	Ukraine	2,230	2,282	2,105	2,097	1,358	1	4	2	4	3
AT	Austria	–	–	3	1	–	25	34	29	30	24
AU	Australia	1	–	1	–	–	9	7	8	9	11
BE	Belgium	9	7	1	2	5	39	52	44	44	26
BY	Belarus	2	6	3	4	2	1	–	1	1	1
CA	Canada	–	2	–	1	4	18	14	10	14	20
CH	Switzerland	7	3	4	4	20	240	199	218	184	183
CN	China	–	1	2	–	4	30	32	38	53	95
CY	Cyprus	1	5	14	5	4	4	–	1	2	–
CZ	Czech Republic	2	1	–	3	–	12	2	7	6	6
DE	Germany	20	24	31	29	46	208	205	249	201	174
DK	Denmark	2	6	8	3	1	26	30	32	28	42
ES	Spain	–	1	2	1	3	24	14	11	18	16
FI	Finland	1	1	2	–	1	13	12	13	13	5
FR	France	8	12	14	5	12	91	71	56	61	43
GB	United Kingdom	13	5	6	7	17	75	69	88	76	80
HK	Hong Kong	–	–	–	1	2	–	–	–	1	–
HU	Hungary	–	–	–	–	–	8	3	8	8	4
IE	Ireland	–	–	2	1	–	9	10	7	4	11
IL	Israel	2	6	3	1	1	26	8	4	12	12
IN	India	2	1	3	2	1	22	13	14	31	27
IT	Italy	2	5	4	7	2	44	42	48	22	44
JP	Japan	4	4	1	2	2	64	58	50	55	54
KR	Republic of Korea	1	3	3	1	9	25	15	19	27	23
LV	Latvia	–	–	2	2	1	6	–	1	2	–
LU	Luxemburg	1	1	2	–	–	57	48	59	43	57
MX	Mexico	–	–	–	–	–	2	2	5	7	2
MT	Malta	1	–	–	1	2	6	3	2	–	3
NL	Netherlands	3	4	5	5	2	53	43	61	30	36
NO	Norway	–	1	–	–	–	10	11	9	9	10
PL	Poland	8	3	10	4	3	12	21	13	14	19
PT	Portugal	–	–	1	–	–	7	–	–	4	1
RU	Russian Federation	23	10	5	9	14	30	47	44	38	48
SE	Sweden	–	1	3	–	–	25	17	28	28	20
SG	Singapore	–	–	2	–	–	7	1	6	6	4
SK	Slovakia	–	11	10	1	11	–	1	–	4	2
TR	Turkey	–	1	1	1	1	12	17	8	8	2
US	USA	64	84	96	91	68	414	428	399	435	448
VG	British Virgin Islands	–	1	2	3	–	–	1	1	1	–
	Others	15	3	5	4	4	15	17	20	21	27
	Total	2,422	2,495	2,356	2,298	1,600	1,670	1,551	1,613	1,554	1,583

1.2. Resident applications for inventions by regions of Ukraine, 2016-2020

Region	2016	2017	2018	2019	2020
The Autonomous Republic of Crimea	4	9	5	1	1
Vinnitsia	56	42	36	51	36
Volyn	9	12	10	4	6
Dnipropetrovsk	221	235	226	192	139
Donetsk	56	64	56	73	37
Zhytomyr	25	30	31	22	14
Zakarpattia	36	54	45	48	38
Zaporizhia	99	86	72	48	40
Ivano-Frankivsk	48	41	47	45	38
Kyiv Region	70	94	81	66	59
Kirovohrad	23	28	35	21	12
Luhansk	18	43	18	14	12
Lviv	105	100	97	95	61
Mykolaiv	43	32	24	24	19
Odesa	155	169	141	145	71
Poltava	27	24	27	25	17
Rivne	6	10	6	12	5
Sumy	14	27	28	22	23
Ternopil	14	27	26	29	26
Kharkiv	364	342	280	346	209
Kherson	20	18	14	23	24
Khmelnytskyi	14	36	15	8	9
Cherkasy	36	43	18	42	11
Chernivtsi	10	8	10	4	2
Chernihiv	25	35	22	16	14
Kyiv	733	677	736	725	438
Sevastopol	–	–	1	–	–
Total	2,231	2,286	2,107	2,101	1,361

1.3. Applications for inventions by technology fields, 2016-2020

Technology field	Resident applications					Non-resident applications				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Electrical engineering										
Electrical machinery, apparatus, energy	108	95	93	108	66	54	35	36	34	21
Audio-visual technology	9	10	14	12	3	4	11	4	6	10
Telecommunications	17	16	8	13	17	2	2	5	2	5
Digital communication	4	11	3	6	4	10	5	10	3	14
Basic communication processes	23	14	11	6	13	3	3	–	–	4
Computer technology	40	58	31	36	18	15	12	25	16	27
IT methods for management	5	7	10	10	3	11	9	12	8	9
Semiconductors	7	7	7	14	6	2	–	1	–	–
Instruments										
Optics	12	8	11	10	2	5	2	2	–	1
Measurement	139	121	161	148	79	22	27	28	23	15
Analysis of biological materials	50	45	54	32	22	4	8	2	4	6
Control	29	26	31	41	23	5	8	11	8	5
Medical technology	228	188	219	175	88	46	35	52	52	28
Chemistry										
Organic fine chemistry	68	81	50	62	26	330	280	285	260	264
Biotechnology	24	28	27	30	9	187	240	234	247	182
Pharmaceuticals	118	110	113	131	57	263	241	240	236	307
Macromolecular chemistry, polymers	11	23	16	23	8	18	15	25	30	19
Food chemistry	109	110	125	100	48	48	40	73	55	68
Basic materials chemistry	69	71	59	59	33	149	145	129	134	123
Materials, metallurgy	102	133	89	91	65	108	99	90	82	93
Surface technology, coating	37	37	48	47	28	30	20	27	18	35
Micro-structural and nano-technology	–	5	4	5	1	–	–	–	–	–
Chemical engineering	64	109	94	100	51	44	39	35	45	37
Environmental technology	53	60	41	41	30	20	18	19	17	8
Mechanical engineering										
Handling	53	44	25	47	34	49	84	69	57	24
Machine tools	94	78	59	65	43	26	22	22	35	27
Engines, pumps, turbines	124	105	98	112	56	37	29	25	27	45
Textile and paper machines	10	11	25	11	1	15	20	24	21	9
Other special machines	147	189	195	174	68	71	80	101	117	99
Thermal processes and apparatus	72	54	65	45	25	35	30	38	20	16
Mechanical elements	47	68	58	37	22	22	23	23	18	20
Transport	83	108	79	90	37	35	27	36	26	41
Other fields										
Furniture, games	27	27	17	24	14	22	13	14	22	18
Other consumer goods	24	18	22	25	17	112	85	107	83	153
Civil engineering	128	102	106	119	58	50	45	55	40	43
Others and not classified	96	109	39	52	286	7	8	3	5	46
Total	2,231	2,286	2,107	2,101	1,361	1,861	1,760	1,862	1,751	1,822

1.4. Patents for inventions by origin, 2016-2020

Code	Country	2016	2017	2018	2019	2020
UA	Ukraine	1,277	1,224	1,203	1,248	1,086
AR	Argentina	1	2	–	1	2
AT	Austria	38	25	19	28	28
AU	Australia	18	7	8	7	2
BE	Belgium	37	29	26	27	25
BG	Bulgaria	4	1	–	1	2
BR	Brasilia	1	3	1	2	1
BY	Belarus	4	1	1	6	5
CA	Canada	12	12	6	15	12
CH	Switzerland	162	153	117	117	118
CN	China	27	20	15	26	37
CZ	Czech Republic	12	10	13	8	4
DE	Germany	239	171	190	130	136
DK	Denmark	28	13	21	21	11
ES	Spain	26	15	13	11	8
FI	Finland	14	15	6	5	17
FR	France	114	83	81	55	61
GB	United Kingdom	58	50	50	46	45
GR	Greece	2	1	–	–	3
HU	Hungary	6	6	7	3	5
IE	Ireland	8	14	13	7	7
IL	Israel	9	8	18	8	6
IN	India	15	9	9	7	14
IT	Italy	58	44	37	27	35
JP	Japan	67	73	37	38	50
KR	Republic of Korea	12	11	24	8	10
LU	Luxemburg	18	19	32	56	44
LV	Latvia	2	5	1	3	2
MT	Malta	3	2	2	6	2
NL	Netherlands	33	46	38	33	35
NO	Norway	4	9	5	5	11
PL	Poland	20	20	16	10	11
RU	Russian Federation	56	27	27	18	30
SE	Sweden	26	25	24	14	14
SG	Singapore	10	1	–	3	2
SK	Slovakia	2	1	–	5	9
TR	Turkey	3	2	10	1	5
US	USA	354	407	377	240	265
	Others	33	26	22	9	19
	Total	2,813	2,590	2,469	2,255	2,179

1.5. Patents for inventions by technology fields, 2016-2020

Technology field	Resident grants					Non-resident grants				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Electrical engineering										
Electrical machinery, apparatus, energy	67	46	45	41	43	46	18	29	30	23
Audio-visual technology	4	7	3	3	5	26	34	14	3	—
Telecommunications	12	7	8	15	7	4	2	1	1	1
Digital communication	4	—	4	8	—	14	16	16	1	7
Basic communication processes	4	8	16	8	5	6	4	—	2	—
Computer technology	19	30	31	36	23	15	8	17	4	5
IT methods for management	—	1	—	4	1	7	4	1	3	4
Semiconductors	5	9	3	6	6	1	—	2	—	1
Instruments										
Optics	10	8	8	10	5	3	2	1	3	1
Measurement	111	85	90	79	85	25	14	19	10	23
Analysis of biological materials	28	28	20	34	27	3	—	5	3	3
Control	24	19	24	16	9	3	3	5	6	8
Medical technology	112	104	111	91	105	31	19	23	10	23
Chemistry										
Organic fine chemistry	35	40	40	58	38	253	202	230	175	197
Biotechnology	23	16	13	23	13	71	109	143	115	95
Pharmaceuticals	92	50	68	72	61	212	211	158	104	113
Macromolecular chemistry, polymers	9	12	10	10	13	23	16	14	17	15
Food chemistry	91	95	92	90	58	70	38	27	13	24
Basic materials chemistry	42	36	49	24	40	133	137	112	76	92
Materials, metallurgy	75	92	51	74	71	104	84	61	74	70
Surface technology, coating	37	32	20	28	35	38	32	22	15	17
Micro-structural and nano-technology	1	1	5	1	1	1	—	—	—	—
Chemical engineering	62	51	48	55	59	51	49	29	26	33
Environmental technology	38	30	28	32	16	21	18	11	9	7
Mechanical engineering										
Handling	23	20	24	31	18	39	51	35	25	18
Machine tools	31	39	65	50	42	24	17	22	15	11
Engines, pumps, turbines	55	70	36	47	38	28	20	15	17	18
Textile and paper machines	8	8	7	16	15	15	18	8	13	16
Other special machines	90	89	116	104	80	65	62	58	57	85
Thermal processes and apparatus	39	31	27	24	27	21	24	17	27	24
Mechanical elements	33	28	32	32	28	23	9	13	20	20
Transport	41	42	32	52	41	31	17	28	22	22
Other fields										
Furniture, games	3	13	8	8	6	8	5	8	7	5
Other consumer goods	4	10	6	6	12	81	69	76	73	64
Civil engineering	45	67	63	56	50	40	54	45	30	47
Others and not classified	—	—	—	4	3	—	—	1	1	1
Total	1,277	1,224	1,203	1,248	1,086	1,536	1,366	1,266	1,007	1,093

1.6. Applications and patents for utility models by origin, 2016-2020

Code	Country	Applications					Patents				
		2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
UA	<i>Ukraine</i>	9,473	8,979	8,982	8,353	5,063	8,931	9,365	8,471	8,288	6,229
AE	United Arab Emirates	–	–	2	–	1	–	–	–	2	1
AZ	Azerbaijan	–	–	–	1	–	–	–	–	–	1
BG	Bulgaria	3	1	3	–	–	1	3	–	2	–
BY	Belarus	14	13	8	12	14	13	10	6	13	8
CA	Canada	–	2	–	–	–	–	–	–	2	–
CH	Switzerland	2	–	2	3	–	4	1	–	1	2
CN	China	1	1	2	2	6	2	2	1	2	8
CY	Cyprus	7	28	56	17	17	19	4	51	39	24
CZ	Czech Republic	–	2	3	1	2	5	1	–	5	2
DE	Germany	4	7	5	1	1	3	2	3	2	2
EE	Estonia	7	1	2	2	3	2	4	2	–	–
ES	Spain	1	–	1	–	1	1	1	–	1	–
FI	Finland	–	1	1	1	2	1	1	–	2	1
GB	United Kingdom	6	5	2	13	–	3	2	6	–	13
GE	Georgia	2	1	–	–	1	–	1	1	–	1
HK	Hong Kong	–	–	–	5	94	–	–	–	–	26
IL	Israel	1	–	4	3	1	–	1	4	3	–
IT	Italy	–	2	1	–	–	–	–	2	1	–
KZ	Kazakhstan	–	1	2	1	3	1	–	2	1	–
LB	Lebanon	–	–	1	–	1	–	1	–	1	–
LU	Luxembourg	–	1	6	6	–	2	–	1	10	2
LV	Latvia	–	–	–	1	–	–	–	–	–	1
LY	Libya	–	–	1	–	–	–	–	–	1	1
MD	Moldova	–	–	–	–	2	–	–	–	–	1
MU	Mauritius	–	–	–	1	–	–	–	–	–	1
PL	Poland	–	6	3	4	37	2	1	7	2	24
RU	Russian Federation	26	41	21	11	15	34	29	38	18	18
SK	Slovakia	2	4	–	14	11	1	3	2	10	16
TR	Turkey	2	3	1	–	–	3	1	6	–	–
US	USA	2	12	5	2	2	2	8	8	1	1
VG	British Virgin Islands	–	3	–	5	1	1	–	4	4	2
	Others	7	4	6	–	3	13	1	5	1	–
Total		9,560	9,118	9,120	8,459	5,281	9,044	9,442	8,620	8,412	6,385

1.7. Applications and patents for utility models by technology fields, 2016-2020

Technology field	Applications					Patents				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Electrical engineering										
Electrical machinery, apparatus, energy	225	240	261	266	147	212	235	246	272	184
Audio-visual technology	43	20	52	34	25	41	20	41	41	24
Telecommunications	50	59	70	66	41	58	59	51	59	57
Digital communication	20	19	15	13	10	20	19	16	10	11
Basic communication processes	121	156	152	76	27	82	185	177	82	58
Computer technology	99	131	117	141	52	90	117	115	104	84
IT methods for management	26	19	33	51	28	17	9	20	28	17
Semiconductors	57	53	52	49	26	49	67	39	62	38
Instruments										
Optics	49	25	39	25	17	40	42	31	34	14
Measurement	595	623	615	579	297	553	662	611	567	442
Analysis of biological materials	1,347	904	896	869	187	1,301	966	956	870	301
Control	194	195	218	225	141	171	207	188	203	177
Medical technology	1,133	1,068	1,104	1,071	601	1,120	1255	952	1066	950
Chemistry										
Organic fine chemistry	111	123	123	112	70	108	143	142	95	111
Biotechnology	72	95	92	74	52	68	95	79	82	78
Pharmaceuticals	526	470	464	507	397	494	547	440	435	509
Macromolecular chemistry, polymers	37	30	47	40	17	34	44	41	45	20
Food chemistry	509	571	619	535	249	535	573	549	573	387
Basic materials chemistry	229	164	188	181	112	250	195	171	171	162
Materials, metallurgy	219	270	253	216	130	252	248	246	245	172
Surface technology, coating	114	79	89	85	57	90	92	87	84	66
Micro-structural and nano-technology	4	9	6	6	4	4	11	5	5	4
Chemical engineering	319	327	341	332	184	364	301	338	347	228
Environmental technology	160	162	188	183	108	152	190	153	186	143
Mechanical engineering										
Handing	213	248	171	175	119	231	227	197	184	146
Machine tools	397	344	339	284	149	382	402	301	321	229
Engines, pumps, turbines	161	171	153	173	116	172	194	149	178	143
Textile and paper machines	95	74	78	73	22	94	90	46	90	42
Other special machines	700	760	785	640	385	704	739	808	682	493
Thermal processes and apparatus	217	187	185	146	82	215	224	184	147	115
Mechanical elements	222	225	214	165	129	174	251	214	175	157
Transport	312	361	349	282	193	290	331	360	322	256
Other fields										
Furniture, games	93	105	101	115	101	88	107	93	105	104
Other consumer goods	131	96	104	113	106	130	115	95	101	111
Civil engineering	456	489	495	409	262	459	480	471	422	335
Others and not classified	304	246	112	148	638	–	–	8	19	17
Total	9,560	9,118	9,120	8,459	5,281	9,044	9,442	8,620	8,412	6,385

1.8. Applications for utility models by regions of Ukraine, 2016-2020

Region	2016	2017	2018	2019	2020
The Autonomous Republic of Crimea	6	22	8	7	6
Vinnytsia	1,288	899	844	836	209
Volyn	84	63	63	57	62
Dnipropetrovsk	595	726	694	678	473
Donetsk	241	268	248	261	167
Zhytomyr	47	39	62	79	55
Zakarpattia	63	84	83	85	71
Zaporizhia	316	313	469	313	311
Ivano-Frankivsk	125	109	116	131	83
Kyiv Region	162	151	173	171	126
Kirovohrad	68	84	67	63	45
Luhansk	142	192	129	111	84
Lviv	404	379	352	341	202
Mykolaiv	97	108	147	147	63
Odesa	344	402	358	334	229
Poltava	276	251	283	221	153
Rivne	161	126	108	102	53
Sumy	124	155	97	119	82
Ternopil	333	279	293	343	318
Kharkiv	1,300	1,280	1,246	1,263	649
Kherson	112	113	90	118	84
Khmelnyskyi	120	78	106	84	58
Cherkasy	123	118	111	133	62
Chernivtsi	224	212	175	196	106
Chernihiv	41	41	42	48	23
Kyiv	2,674	2,482	2,616	2,110	1,288
Sevastopol	3	4	2	2	–
Not classified	–	1	–	–	1
Total	9,473	8,979	8,982	8,353	5,063

1.9. Industrial design applications and registrations by origin, 2016-2020

Code	Country	Applications					Registrations				
		2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
UA	Ukraine	2,016	2,249	2,787	2,455	1,764	2,134	2,113	2,077	2,396	1,820
AT	Austria	1	2	7	1	2	–	1	4	5	1
AU	Australia	1	–	5	–	–	2	–	4	1	–
BG	Bulgaria	–	–	–	2	–	–	–	–	–	2
BE	Belgium	–	–	1	–	6	–	–	1	–	3
BY	Belarus	5	10	4	10	8	2	7	2	8	12
BZ	Belize	–	–	1	2	–	–	–	–	3	1
CA	Canada	1	–	6	2	–	–	1	–	6	2
CH	Switzerland	6	7	2	–	5	5	8	2	1	2
CN	China	4	6	5	30	48	11	8	–	9	41
CZ	Czech Republic	–	3	1	–	7	1	2	1	–	–
CY	Cyprus	10	20	18	13	18	19	11	17	15	14
DE	Germany	5	49	3	3	–	6	12	41	–	2
DK	Denmark	–	–	–	–	34	–	–	–	–	17
EE	Estonia	15	–	4	–	4	17	4	–	–	4
ES	Spain	–	2	3	–	3	–	–	2	3	–
FI	Finland	2	4	5	3	1	8	5	1	2	5
FR	France	13	11	16	5	4	12	11	21	1	3
GB	United Kingdom	4	9	15	31	18	7	7	8	11	23
GE	Georgia	–	6	1	1	–	–	2	–	2	–
IL	Israel	–	–	–	8	2	3	–	–	–	7
IN	India	–	1	1	9	–	6	–	1	3	7
IT	Italy	4	4	5	3	1	5	3	5	4	1
JP	Japan	9	12	21	3	17	33	14	15	10	4
KR	Republic of Korea	2	–	17	–	4	2	–	5	12	1
KZ	Kazakhstan	–	–	1	–	4	1	–	–	1	–
LT	Lithuania	–	–	–	6	1	–	–	–	–	4
NL	Netherlands	2	–	–	3	–	7	1	–	3	–
PL	Poland	8	8	6	6	4	7	11	1	5	4
RU	Russian Federation	105	43	62	35	29	83	82	56	57	28
SE	Sweden	65	–	3	9	8	14	53	1	6	12
TR	Turkey	1	1	1	–	3	3	2	–	1	–
US	USA	9	20	26	35	27	64	13	20	26	27
	Others	14	13	15	3	4	17	19	12	8	–
Total		2,302	2,480	3,042	2,678	2,026	2,469	2,390	2,297	2,599	2,047

1.10. Industrial design registrations by classes of the LCL, 2020

Ranking	Class	Class heading	Registrations	
			qty	%
1	09	Packages and containers for the transport or handling of goods	343	16.8
2	19	Stationery and office equipment, artists' and teaching materials	309	15.1
3	32	Graphic symbols and logos, surface patterns, ornamentation	275	13.4
4	07	Household goods, not elsewhere specified	122	6.0
5	06	Furnishing	108	5.3
6	08	Tools and hardware	102	5.0
7	15	Machines, not elsewhere specified	75	3.7
8	02	Articles of clothing and haberdashery	70	3.4
9	21	Games, toys, tents and sports goods	64	3.1
10	12	Means of transport or hoisting	58	2.8
11	28	Pharmaceutical and cosmetic products, toilet articles and apparatus	53	2.6
12	25	Building units and construction elements	50	2.4
13	23	Fluid distribution equipment, sanitary, heating, ventilation and air-conditioning equipment, solid fuel	46	2.2
14	11	Articles of adornment	45	2.2
15	13	Equipment for production, distribution or transformation of electricity	42	2.1
16	14	Recording, communication or information retrieval equipment	41	2.0
17	10	Clocks and watches and other measuring instruments, checking and signalling instruments	32	1.6
18	05	Textile piecegoods, artificial and natural sheet material	31	1.5
19	03	Travel goods, cases, parasols and personal belongings, not elsewhere specified	29	1.4
20	27	Tobacco and smokers' supplies	27	1.3
21	20	Sales and advertising equipment, signs	26	1.3
22	31	Machines and appliances for preparing food or drink, not elsewhere specified	22	1.1
23	22	Arms, pyrotechnic articles, articles for hunting, fishing and pest killing	20	1.0
24	01	Foodstuffs	19	0.9
25	24	Medical and laboratory equipment	11	0.5
26	26	Lighting apparatus	11	0.5
27	29	Devices and equipment against fire hazards, for accident prevention and for rescue	7	0.3
28	16	Photographic, cinematographic and optical apparatus	4	0.1
29	18	Typewriters and calculating machines	2	0.1
30	30	Articles for the care and handling of animals	2	0.1
31	17	Musical instruments	1	0.1

1.11. International registrations under the Hague Agreement by origin, 2016-2020

Code	Country	2016	2017	2018	2019	2020
AT	Austria	10	8	4	4	4
BA	Bosnia and Herzegovina	1	–	2	4	1
BE	Belgium	8	5	11	1	3
BG	Bulgaria	9	3	8	3	4
CH	Switzerland	187	157	151	138	92
CY	Cyprus	6	13	4	20	10
CN	China	–	–	13	14	50
CZ	Czech Republic	12	14	13	8	10
DE	Germany	55	45	45	45	54
DK	Denmark	5	2	3	4	1
EE	Estonia	5	7	1	–	1
ES	Spain	4	6	5	13	19
FI	Finland	5	5	4	1	2
FR	France	145	119	75	103	87
GB	United Kingdom	8	5	16	11	16
GR	Greece	2	3	–	2	–
HR	Croatia	10	8	6	3	9
HU	Hungary	–	1	–	2	4
IL	Israel	2	–	–	–	2
IT	Italy	37	35	36	50	41
JP	Japan	5	5	1	6	7
KR	Republic of Korea	2	7	2	4	4
LT	Lithuania	1	1	1	–	2
LV	Latvia	2	–	1	2	1
MD	Republic of Moldova	–	1	–	1	3
MT	Malta	–	1	1	–	4
NL	Netherlands	19	11	12	19	26
NO	Norway	1	1	2	2	–
PL	Poland	6	18	16	17	15
RO	Romania	3	–	2	–	1
RS	Serbia	–	–	1	4	1
RU	Russian Federation	1	–	–	3	15
SE	Sweden	5	44	18	16	6
SI	Slovenia	2	6	1	1	–
SK	Slovakia	–	2	1	1	2
TR	Turkey	20	10	13	7	13
UA	Ukraine	4	2	4	12	12
US	USA	20	15	25	25	19
	Others	21	5	8	11	13
Total		623	565	506	557	554

1.12. International design registrations by classes of the LCL, 2020

Ranking	Class	Class heading	Registrations	
			qty	%
1	10	Clocks and watches and other measuring instruments, checking and signalling instruments	60	10.8
2	9	Packaging and containers for the transport or handling of goods	58	10.5
3	12	Means of transport or hoisting	43	7.8
4	28	Pharmaceutical and cosmetic products, toilet articles and apparatus	43	7.8
5	3	Travel goods, cases, parasols and personal belongings, not elsewhere specified	36	6.5
6	11	Articles of adornment	35	6.3
7	21	Games, toys, tents and sports goods	26	4.7
8	23	Fluid distribution equipment, sanitary, heating, ventilation and air-conditioning equipment, solid fuel	26	4.7
9	14	Recording, telecommunication or data processing equipment	25	4.5
10	26	Lighting apparatus	22	4.0
11	25	Building units and construction elements	19	3.4
12	2	Articles of clothing and haberdashery	18	3.2
13	7	Household goods, not elsewhere specified	18	3.2
14	27	Tobacco and smokers' supplies	17	3.1
15	32	Graphic symbols and logos, surface patterns, ornamentation	14	2.5
16	6	Furnishing	11	2.0
17	15	Machines, not elsewhere specified	11	2.0
18	8	Tools and hardware	10	1.8
19	19	Stationery and office equipment, artists' and teaching materials	10	1.8
20	4	Brushware	9	1.6
21	13	Equipment for production, distribution or transformation of electricity	9	1.6
22	16	Photographic, cinematographic and optical apparatus	9	1.6
23	24	Medical and laboratory equipment	9	1.6
24	5	Textile piece goods, artificial and natural sheet material	4	0.7
25	18	Printing and office machinery	3	0.5
26	1	Foodstuffs	2	0.4
27	29	Devices and equipment against fire hazards, for accident prevention and for rescue	2	0.4
28	31	Machines and appliances for preparing food or drink, not elsewhere specified	2	0.4
29	20	Sales and advertising equipment, signs	1	0.2
30	22	Arms, pyrotechnic articles, articles for hunting, fishing and pest killing	1	0.2
31	30	Articles for the care and handling of animals	1	0.2

1.13. Trademark applications and registrations under the national procedure by origin, 2016-2020

Code	Country	Applications					Registrations				
		2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
UA	Ukraine	26,064	26,275	27,327	29,828	23,841	11,007	12,986	13,553	14,788	16,839
AE	United Arab Emirates	33	46	40	36	45	19	24	21	27	43
AM	Armenia	7	14	8	7	4	3	3	3	15	5
AR	Argentina	2	1	3	1	9	4	4	3	1	2
AT	Austria	57	67	41	24	32	61	40	60	43	29
AU	Australia	–	5	3	2	10	9	2	1	1	4
BA	Bosnia and Herzegovina	14	–	10	5	–	12	6	2	–	10
BE	Belgium	13	15	19	2	8	34	20	4	17	15
BG	Bulgaria	5	4	12	11	16	26	9	1	17	11
BM	Bermuda	6	–	–	7	3	6	1	6	2	–
BR	Brasilia	7	6	10	9	2	11	2	7	–	6
BY	Belarus	17	24	30	22	33	29	9	17	9	18
BZ	Belize	21	35	16	9	–	8	7	10	6	12
CA	Canada	21	27	51	21	21	27	14	9	23	31
CH	Switzerland	397	256	263	409	423	189	232	210	201	203
CL	Chile	2	1	3	5	7	2	–	2	1	3
CN	China	125	178	226	284	205	44	44	66	126	159
CO	Colombia	3	2	3	2	–	2	1	2	1	3
CW	Curacao	1	2	2	4	6	8	1	2	3	2
CY	Cyprus	434	644	524	448	623	418	309	288	347	368
CZ	Czech Republic	16	15	11	18	6	9	22	10	14	8
DE	Germany	118	147	134	100	152	71	82	95	110	92
DK	Denmark	11	16	17	17	7	4	12	11	11	19
EE	Estonia	72	36	59	30	27	12	8	63	21	46
EG	Egypt	6	–	2	3	1	6	–	1	–	2
ES	Spain	46	61	38	62	24	8	3	24	18	10
FI	Finland	1	9	4	17	43	6	5	5	6	3
FR	France	76	66	100	68	61	69	49	51	49	87
GB	United Kingdom	211	232	225	232	196	117	164	154	138	183
GE	Georgia	21	15	13	21	25	9	10	8	12	7
GR	Greece	4	5	4	7	2	2	4	–	3	–
HK	Hong Kong	46	45	36	26	55	24	33	15	22	23
HR	Croatia	2	4	4	6	12	5	4	–	4	2
HU	Hungary	3	18	16	12	17	7	3	12	4	17
IE	Ireland	48	21	24	19	36	14	23	15	15	20
IL	Israel	12	23	30	46	45	37	8	7	31	17
IM	Isle of Man	5	64	16	6	9	–	19	5	6	28
IN	India	223	178	122	199	107	125	92	110	118	114
IT	Italy	32	34	25	62	31	5	13	29	23	24
JP	Japan	69	89	81	94	119	92	95	49	58	70
KN	Saint Kitts and Nevis	–	2	1	4	5	1	–	–	2	1

Code	Country	Applications					Registrations				
		2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
KR	Republic of Korea	104	74	87	105	115	56	38	32	69	70
KY	Cayman Islands	28	30	15	9	26	9	15	16	24	13
KZ	Kazakhstan	2	10	4	9	6	–	2	2	6	7
LB	Lebanon	1	–	–	14	1	–	–	1	–	–
LI	Liechtenstein	28	23	20	16	25	4	6	11	12	18
LK	Sri Lanka	4	16	5	–	6	1	2	3	8	3
LT	Lithuania	19	20	36	52	37	14	8	5	14	22
LU	Luxemburg	8	10	15	35	21	14	9	4	18	24
LV	Latvia	8	12	16	32	10	5	10	13	2	15
MD	Republic of Moldova	5	6	10	8	3	1	2	2	2	6
MH	Marshall Islands	5	1	1	3	11	1	2	4	2	1
MK	North Macedonia	3	2	4	5	8	–	1	2	5	–
MT	Malta	8	7	1	17	27	–	1	3	–	4
MX	Mexico	6	8	7	8	5	3	10	3	7	5
NL	Netherlands	84	76	49	43	68	58	47	42	47	43
NZ	New Zealand	–	1	5	5	3	–	1	1	–	3
NO	Norway	1	–	1	1	6	1	1	–	–	1
PA	Panama	10	5	3	1	4	12	5	2	–	–
PL	Poland	54	64	76	98	79	41	49	40	40	61
PT	Portugal	4	–	1	3	2	6	4	2	–	–
QA	Qatar	–	–	4	3	17	1	1	–	–	4
RO	Romania	6	–	2	11	4	–	4	2	–	10
RU	Russian Federation	147	147	138	85	100	108	99	97	93	78
SC	Seychelles	4	2	9	16	13	3	5	–	7	2
SE	Sweden	24	19	16	26	24	13	6	29	8	16
SG	Singapore	30	51	11	27	33	13	14	32	23	25
SI	Slovenia	4	4	12	–	14	3	3	3	3	10
SK	Slovakia	16	14	10	9	31	7	5	16	9	10
TH	Thailand	10	12	7	18	10	13	2	8	9	8
TR	Turkey	49	62	27	34	51	18	18	28	35	25
TW	Taiwan	15	24	20	26	15	20	12	14	11	21
US	USA	560	689	640	778	790	590	465	454	517	544
UZ	Uzbekistan	–	4	1	4	2	–	2	2	–	–
VG	British Virgin Islands	56	55	31	6	14	35	17	40	28	16
VN	Vietnam	–	–	5	4	1	–	–	–	–	3
	Others	46	53	58	40	45	26	19	33	30	36
	Total	29,600	30,183	30,900	33,736	27,895	13,618	15,248	15,877	17,322	19,640

1.14. NCL classes specified in trademark applications, 2020

Class index	Class heading	Total number	Resident applications	Non-resident applications
35	Advertising; business management; business administration; office functions	9,923 (21.9%)	9,216 (23.9%)	707 (10.4%)
41	Education; providing of training; entertainment; sporting and cultural activities	3,290 (7.3%)	2,914 (7.6%)	376 (5.5%)
5	Pharmaceuticals, medical and veterinary preparations; sanitary preparations for medical purposes; dietetic food and substances ...	3,172 (7.0%)	2,099 (5.5%)	1,073 (15.8%)
30	Coffee, tea, cocoa and artificial coffee; rice, pasta and noodles; tapioca and sago; flour and preparations made from cereals ...	2,209 (4.9%)	1,962 (5.1%)	247 (3.6%)
43	Services for providing food and drink; temporary accommodation	1,924 (4.2%)	1,836 (4.8%)	88 (1.3%)
9	Scientific, research, navigation, surveying, photographic, cinematographic, audiovisual, optical, weighing, measuring, signalling, detecting, testing, inspecting, life-saving and teaching apparatus and instruments	1,757 (3.9%)	1,207 (3.1%)	550 (8.1%)
42	Scientific and technological services and research and design relating thereto; industrial analysis and industrial research services ...	1,701 (3.8%)	1 386 (3.6%)	315 (4.6%)
29	Meat, fish, poultry and game; meat extracts; preserved, frozen, dried and cooked fruits and vegetables; jellies, jams, compotes; eggs ...	1,654 (3.7%)	1 522 (4.0%)	132 (1.9%)
25	Clothing, footwear, headwear	1,448 (3.2%)	1,307 (3.4%)	141 (2.1%)
3	Non-medicated cosmetics and toiletry preparations; non-medicated dentifrices; perfumery, essential oils	1,358 (3.0%)	964 (2.5%)	394 (5.8%)
44	Medical services; veterinary services, hygienic and beauty care for human beings or animals; agriculture, horticulture and forestry services	1,290 (2.8%)	1,185 (3.1%)	105 (1.5%)
33	Alcoholic beverages, except beers; alcoholic preparations for making beverages	1,193 (2.6%)	927 (2.4%)	266 (3.9%)
36	Insurance; financial affairs; monetary affairs; real estate affairs	1,181 (2.6%)	1,078 (2.8%)	103 (1.5%)
37	Building construction; repair; installation services	1,175 (2.6%)	1,108 (2.9%)	67 (1.0%)
38	Telecommunications	940 (2.1%)	775 (2.0%)	165 (2.4%)
32	Beers; non-alcoholic beverages; mineral and aerated waters; fruit beverages and fruit juices; syrups and other non-alcoholic preparations for making beverages	919 (2.0%)	712 (1.8%)	207 (3.0%)
16	Paper and cardboard; printed matter; bookbinding material; photographs; stationery and office requisites, except furniture	868 (1.9%)	768 (2.0%)	100 (1.5%)
39	Transport; packaging and storage of goods; travel arrangement	849 (1.9%)	773 (2.0%)	76 (1.1%)
45	Legal services; security services for the physical protection of tangible property and individuals; personal and social services ...	664 (1.5%)	617 (1.6%)	47 (0.7%)

Class index	Class heading	Total number	Resident applications	Non-resicent applications
31	Raw and unprocessed agricultural, aquacultural, horticultural and forestry products; raw and unprocessed grains and seeds ...	567 (1.3%)	512 (1.3%)	55 (0.8%)
1	Chemicals for use in industry, science and photography, as well as in agriculture, horticulture and forestry ...	564 (1.2%)	417 (1.1%)	147 (2.2%)
28	Games, toys and playthings, video game apparatus; gymnastic and sporting articles; decorations for Christmas trees	550 (1.2%)	430 (1.1%)	120 (1.8%)
11	Apparatus and installations for lighting, heating, cooling, steam generating, cooking, drying, ventilating, water supply and sanitary purposes	534 (1.2%)	457 (1.2%)	77 (1.1%)

1.15. Trademark applications under the Madrid System by origin, 2016-2020

Code	Country	2016	2017	2018	2019	2020
UA	<i>Ukraine</i>	5	6	1	–	–
AE	United Arab Emirates	6	10	13	8	3
AL	Albania	2	1	–	1	–
AM	Armenia	13	15	20	10	15
AT	Austria	123	138	137	132	113
AU	Australia	35	58	50	60	40
AZ	Azerbaijan	2	3	5	2	3
BA	Bosnia and Herzegovina	2	–	3	1	3
BE	Belgium	98	132	105	77	108
BG	Bulgaria	33	125	85	111	125
BY	Belarus	62	106	89	141	133
BZ	Belize	2	4	10	2	–
CA	Canada	5	3	10	11	21
CH	Switzerland	417	502	469	497	477
CN	China	561	889	1,184	1,367	1,200
CU	Cuba	–	1	3	4	4
CW	Curacao	3	11	5	1	–
CY	Cyprus	50	58	55	49	83
CZ	Czech Republic	84	60	67	114	65
DE	Germany	960	961	1,097	1,032	991
DK	Denmark	60	61	52	90	62
EE	Estonia	12	16	25	31	26
EG	Egypt	3	9	3	3	–
ES	Spain	146	166	163	189	187
FI	Finland	58	93	89	49	63
FR	France	542	655	650	671	444
GB	United Kingdom	148	173	195	243	217
GE	Georgia	12	20	12	14	19
GR	Greece	14	15	17	14	11
HR	Croatia	6	12	11	6	10
HU	Hungary	43	60	148	139	80
IE	Ireland	33	34	12	22	33
IL	Israel	21	29	37	33	31
IN	India	23	31	24	21	34
IR	Iran (Islamic Republic of)	6	9	6	8	5
IS	Iceland	1	1	–	6	3
IT	Italy	404	512	518	528	421
JP	Japan	118	181	132	170	161
KG	Kyrgyzstan	–	2	1	10	3
KR	Republic of Korea	89	94	107	137	167
KY	Cayman Islands	1	6	3	7	2
KZ	Kazakhstan	17	13	22	38	25

Code	Country	2016	2017	2018	2019	2020
LI	Liechtenstein	13	39	25	31	15
LT	Lithuania	14	26	32	38	32
LU	Luxembourg	86	72	53	42	65
LV	Latvia	24	38	32	68	27
MA	Morocco	2	3	5	4	—
MC	Monaco	7	7	14	13	12
MD	Moldova	35	28	17	37	47
ME	Montenegro	1	—	8	1	1
MT	Malta	20	29	5	9	7
MX	Mexico	—	8	1	2	8
NL	Netherlands	139	133	116	126	134
NO	Norway	14	27	18	18	15
NZ	New Zealand	10	7	2	3	13
PL	Poland	110	191	164	243	167
PT	Portugal	37	28	19	25	29
RO	Romania	20	15	19	30	26
RS	Serbia	24	30	23	22	11
RU	Russian Federation	313	534	553	510	588
SE	Sweden	55	60	59	62	60
SG	Singapore	20	46	24	40	53
SI	Slovenia	33	61	38	40	28
SK	Slovakia	31	27	20	20	24
TR	Turkey	227	309	233	268	191
US	USA	511	581	583	686	626
UZ	Uzbekistan	2	7	8	2	6
VG	British Virgin Islands	13	8	7	13	10
VN	Vietnam	5	18	12	21	14
	Others	19	27	27	35	47
	Total	6,005	7,634	7,752	8,458	7,644

2. Expenses for functioning and development of the state system of intellectual property rights protection in 2020

Expense items	Amount, Thousands UAH
Organization expenses, expenses associated with examination and grant of titles of protection for industrial property rights	347,706.8
Expenses for information activities in the sphere of intellectual property rights protection	4,248.3
Expenses for editorial and publishing activities	41.2
Expenses for development of international cooperation in the sphere of intellectual property rights protection	667.7
Expenses for organization of employee training and skill upgrading in the field of intellectual property rights protection	371.8
Acquisition of licensed software and maintenance of automated systems	7,567.5
Total	360,603.3

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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>