Committee on WIPO Standards (CWS): Ninth Session.  
1 – 5 November 2021

HOW DIGITAL TRANSFORMATION CHANGES BUSINESS PROCESSES FOR IP STAKEHOLDERS
Putting the information systems into operation is scheduled for 2021 - 2022
PATENT INFORMATION SEARCH PLATFORM

USERS AND STAKEHOLDERS

→ Business community
→ Inventors
→ Investors
→ Citizens
→ Legal entities
→ Associations
→ Accredited organizations

PLATFORM IS DESIGNED TO RESPOND TO THE CURRENT AND POTENTIAL CHALLENGES

PLATFORM FEATURES

→ Automated preliminary assessment of applications
→ Patent analytics
→ Patent statistics comparison in 35 WIPO technology fields for different countries
→ Expert consultations
→ Free public access to the worldwide patent information

01.08.2021 the Russian Federation adopted the Federal Law allowing certified scientific and educational organizations to carry out preliminary search and assessment of patentability for inventions and utility models.
PLATFORM FUNCTIONALITY: MULTIPURPOSE PATENT INFORMATION SEARCH

→ **EXPERT MODES**
   Search results: an object with tags and comments that corresponds to the results and can be forwarded

→ **INTERACTION WITH EXTERNAL RESOURCES**
   A single window for searching in international patent databases and other sources

→ **SPECIALIZED SEARCHES**
   Viewing 3D models, searching for chemical formulas and sequence listings, and based on classifications, etc.

→ **PROMISING DEVELOPMENTS**
   Exploring analysis, multilingualism, distributive thesauruses, identification of links between objects and formation of patent graphs

→ **LARGE-SCALE DATABASE**
   World Patent Collection, Russian and Soviet patent information, database of sequence listings, integration with STI, specific information

The main principles: Coverage extension and information accessibility
PLATFORM FUNCTIONALITY: SEARCH FOR TRADEMARKS AND INDUSTRIAL DESIGNS

Verbal elements

**PRO100**

various search options:
- Spelling
- Phonetics
- Semantic

**Figurative elements**

image search using a neural network

**Attributes**

Field search for trademarks and industrial designs, as well as notifications
SEARCH AND COMPARISON OF 3D VISUAL REPRESENTATIONS

Development of technology for three-dimensional printing of objects

AI technologies:
- Machine learning
- Construction of descriptors-histograms
- Siamese networks

Generation of innovative engineering solutions based on comparison with proven 3D models

Improving the quality of protection of intellectual property rights - reducing litigation in terms of growing volumes of industrial designs
A **Business Intelligence** system ensuring all aspects of management based on statistical data

- identification of trends and anomalies, preparation of raw data for patent analytics
- formation of pre-configured panels that meet various users' demands
- conducting flexible exploratory analysis

- **Flexible on-line reports instead of a single annual report with a fixed structure**
  - Wide set of Real-time indicators reflecting the activity of Rospatent and IP ecosystem in the Russian Federation
  - More information in contrast to the annual report
INTERNATIONAL GATEWAY SERVICES

→ Single point of Rospatent’s interaction with international organizations and foreign IPOs

→ Secure gateway for interaction of Rospatent’s internal information systems and databases with information systems of international organizations and foreign IPOs

→ Data conversion into ST.96 and other formats, used by different IPOs

CISPATENT Project

Data exchange with international organizations and more than 50 foreign IPOs
**ONLINE ROSPATENT**

User support throughout the entire service delivery cycle

30 services

- Online application filing and processing
- Tracking the status of all applications
- Providing online assistance with previously filed application
- Searching for information on all IPR objects
- Searching for patent attorneys
- Fee calculation

**IMPLEMENTATION IMPACT**

Reducing the time and improving the quality of the public services

The application program interface (API) will allow to send requests for the public services, as well as to check the status of previously sent requests and receive information from external information systems automatically.

**Core technologies:** Django, Celery, PostgreSQL
DISTRIBUTED LEDGER FOR IPRs Management

DISTRIBUTED LEDGER FOR INTELLECTUAL PROPERTY RIGHTS MANAGEMENT WITHIN THE STATE INFORMATION SYSTEM FOR THE IP MARKET

- Identification of counterparties and certification of their IPRs
- Access to database of IPR objects with full required information
- Convenient smart search for interested IP users
- Digital implementation of the IPRs management with contract conclusion and countersigning, as well as online registration of the transaction by Rospatent

IMPLEMENTATION IMPACT

- Increasing the transparency of transactions
- Facilitating the entry into the market of patent holders and owners of other IPRs
- Elimination of data distortion
- Further integration of various counterparties to the network

Core technologies: Block-P, Symfony, Node.Js, PostgreSql, Apache Kafka
Thank you for your attention!