FEDERAL INFORMATION SYSTEM

Distributed ledger of intellectual property rights and means of identification in circulation

Vladislav Mamontov
Principal Specialist
Rospatent
System features

- Viewing and circulating intellectual property (IP) on a unified platform
- Verification of compliance with IP transfer contract terms, automatic generation of application to register change in IP ownership
- Contract builder to draft IP transfer contract
- Reliable data for drafting agreements, electronic signature feature
- Smart contracts
- Verification of seller and buyer data throughout IP transfer process
System advantages

- Seller and buyer enter into contract online
- Reliable operation, guaranteed access to data anytime
- Full data transparency for audit and supervision of execution by companies and users
- Altering data is impossible at any stage of interaction
- Using GOST state standard for cryptography and private transactions
- Convenient IP rights transfer service
Automating IP transfer process for federal registration of change in ownership pursuant to contract

Transfer of IP rights

1. Offer from seller
2. Drafting of IP transfer contract
3. Signing of IP transfer contract
4. Automatic generation and submission of application to Rospatent for review
5. Execution of smart contract

Tracking IP status

Unified platform for placing and viewing IP rights in circulation

Trademark / Prototype / Invention / Utility Model

Data storage and recording

on nodes that contain a complete copy of the data
IP TRANSFER CYCLE ON THE UNIFIED PLATFORM

1. Verification of IP details
   - Selecting IP and drawing up offer

2. Verification of contract terms
   - Finding buyer and drafting contract in contract builder
   - Signing of contract between users

3. Automatic verification of IP transfer
   - Automatic generation of application
   - Review of IP transfer application and execution of smart contract

4. Verification of contract details and electronic signature
   - Record of change in IP ownership
How users work with data on the platform

Step 1: Place sell offer

Step 2: Interest in acquisition (bidding)

Step 3: Sign contract and submit application

Users access their data from one of the blockchain nodes through the system's web portal.
User capabilities

**Seller**

1. Add IP details to the platform
2. Sell IP at a fixed price or organize bidding
3. Draft IP transfer contract in contract builder
4. Communicate with other users
5. Compile application and transfer IP rights

**Buyer**

1. Search by parameters
2. View details of IP in circulation
3. Take part in bidding or buy IP rights at a fixed price
4. Communicate with other users

**Patent lawyer**

1. Consult with users
2. Represent interests of IP rights holder
3. Compile application to register IP rights
Contract builder works by providing prompts

1. Initial IP details
2. Contract template
3. Owner selects required contract terms and conditions
4. System verifies that all fields are filled out correctly

Build your own contract based on templates and blockchain data
Data confidentiality

Private data is available only to necessary participants

Secure user data storage

Hashing: cryptographic hash function

Hash function returns output string to record transaction in blockchain


Private data processing

1. Enter initial data secured with e-signature

2. Hashing: cryptographic hash function

3. Hash function returns output string to record transaction in blockchain

Electronic signature

Buyer

Seller

IP transfer contract

IP transfer application
User interface
User interface
User interface
User interface
Compatibility with other systems

Compatibility achieved via API

- Auction statistics
- Lot details (restricted by amount and content)
- Information on IP rights in selected category