

# **Blockchain-Integrated Domain Parking and Data Storage System**

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## **Abstract**

A blockchain-integrated domain parking system combines secure data storage, targeted advertising, and cryptocurrency-based incentives. Utilizing a Proof-of-Stake blockchain network with IPFS integration, the system enables parked domains to serve as both revenue-generating and utility-driven assets. The system features a subscription-based storage model, AI-optimized advertising, and smart contracts for managing subscriptions and rewards, offering a novel approach to domain monetization and decentralized data storage.

## **Background of the Invention**

The invention relates to systems and methods for domain parking, data storage, and revenue generation. Existing domain parking services focus primarily on advertising revenue without providing substantial utility for the domains themselves. Simultaneously, the demand for secure, scalable, and decentralized data storage solutions is increasing. The disclosed invention integrates blockchain technology with domain parking services, offering enhanced utility and monetization opportunities through tiered storage subscriptions, cryptocurrency rewards, and targeted advertising.

## **Summary of the Invention**

This invention provides a system and method that integrates blockchain technology

(Fig.1G) into domain parking platforms (Fig.1E, Fig.2A), to enable secure data storage (Fig.1C, Fig.3B), targeted advertising (Fig.1F, Fig.3E, Fig.3C) and cryptocurrency-based incentives (Fig.2C, Fig.3D). Key features include:

- A domain parking platform that hosts parked domains using customizable templates (Fig.4) and integrates advertising modules (Fig.1F, Fig.3E, Fig.3C) for revenue generation (Fig.3D).
- A blockchain-based storage network employing Proof-of-Stake (PoS) protocols and InterPlanetary File System (IPFS) (Fig.1D) for decentralized, secure, and scalable data storage (Fig.3B).
- A tiered subscription model (Fig.2D, Fig.3A) for domain owners, providing storage options (Fig.1C, Fig.2D, Fig.3A) based on content types such as text files, images, videos, and spreadsheets.
- A cryptocurrency reward system (Fig.3D) tied to the PoS blockchain (Fig.1G), incentivizing domain owners (Fig.1A) to participate in the platform.
- AI-driven optimization tools for targeted advertising (Fig.1F, Fig.3E, Fig.3C) on parked domains (Fig.1E).

## Drawing and Labeled Figure Descriptions

Fig.1 depicts the advertising optimization process and data flow.

[Figure 1: A diagram titled "ADVERTISING OPTIMIZATION - BLOCKCHAIN Fig.1" showing components including Parked Domains (Fig.1E), Ad (Fig.1B), Node Blockchain File System (Fig.1A), IPFS Nodes (Fig.1D), Parked Domains File System (Fig.1C), Node (Fig.1F), Blockchain (Fig.1G). It illustrates data flow from parked domains through IPFS to a parked domains file system, with advertising optimization involving blockchain nodes.]

Fig.1A 'Domain Owner (user) Interface': Domain Owners (users) subscribe with smart contracts to manage domain storage plans with blockchain integration and receive tokenized rewards.

Fig.1B 'Node': Blockchain is distributed across nodes and special nodes responsible for

decentralized linking functions.

Fig.1C 'Client storage Interface': Clients sign up and manage immutable blockchain data storage via web interface with tiered subscription plans and tokenized payment options.

Fig.1D 'IPFS': Blockchain is hosted on 'Parked' domains linked by the IPFS or similar custom-developed system distributed across nodes and special nodes.

Fig.1E 'Parked Domains': Domains are unparked to integrate into new parking model for displaying ads and reselling blockchain data storage on domains.

Fig.1F 'On-domain Advertising': Internet Ads displayed off-chain on Domain Owner (user) domains using 3rd party ad services or custom-developed application.

Fig.1G 'Blockchain': Secure and immutable decentralized storage system comprised of connected nodes and users with tokenized proof-of-stake (PoS) sign-up.

Fig.2 shows a flowchart depicting the subscription and reward process workflow.

Fig.2A 'Domain Parking Module': Domains unparked from registries integrated into the new domain parking model with user interfaces for sign-up and account management.

Fig.2B 'Blockchain Network': Comprised of IPFS or similar custom-developed system and tokenized proof-of-stake blockchain.

Fig.2C 'Smart Contracts Module': Contract automation for client and user subscribers with payment processing and token rewards.

Fig.2D 'Storage Tiers: Subscription-based storage and data management interface.

Fig.3 is a system architecture diagram illustrating the integration between domain parking platform, blockchain network, and storage components.

Fig.3A 'Subscription Process': Clients sign up for immutable blockchain data storage with tiered subscription plans and tokenized payment options.

Fig.3B 'Data Storage': Data stored on the blockchain manageable with client interface.

Fig.3C 'Advertising Process': AI Optimized Ads displayed on parked domains for second passive revenue stream through 3rd party company or custom developed.

Fig.3D 'Reward System': Domain Owners (users) subscribe with contracts to manage

domain storage with blockchain integration and receive tokenized rewards.

Fig.3E 'AI-Optimized Advertising': Custom or 3rd party application displaying paid ads on system domains.

Fig.4 illustrates the user interface and client dashboard showing key management features.

Fig.4A 'Domain Owner Control Center' (user interface): Displays token rewards, ad revenue, and storage use, and domain & ad configuration.

Fig.4B 'Blockchain Data Access Portal' (client interface): Provides options for searching Blockchain data, and a description of storage plan and management options.

## Claims

1. A blockchain-integrated domain parking system comprising:
  - a. A domain parking platform configured to host parked domains and display customizable templates;
  - b. A blockchain storage network employing a Proof-of-Stake protocol and IPFS to securely store data linked to parked domains;
  - c. A tiered subscription model offering storage plans based on data type and size;
  - d. An advertising module utilizing AI to display targeted ads on parked domains;
  - e. Smart contracts for managing subscription fees, ad revenue distribution, and cryptocurrency rewards.
2. The system of claim 1, wherein the blockchain network provides:
  - a. Encrypted, immutable storage accessible via user credentials.
3. The system of claim 1, wherein the cryptocurrency reward system distributes PoS tokens to domain owners based on:
  - a. Subscription level;
  - b. Domain activity and engagement.
4. The system of claim 1, further comprising a dashboard for:
  - a. Monitoring ad revenue;
  - b. Managing storage plans;
  - c. Viewing cryptocurrency earnings.
5. The system of claim 1, wherein the advertising module employs:
  - a. AI-driven algorithms for contextual and behavioral targeting.

## Application Data Sheet

### Inventor Information

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## **Applicant Information**

# **of applicants: 0**

## **Assignee Information including Non-Applicant Assignee Information**

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## **Company Description**

Roën is the world's first blockchain-integrated domain parking service that revolutionizes how parked domains generate value by creating dual revenue streams through

How parked domains generate value by creating dual revenue streams through decentralized storage and traditional monetization. The company's patent-pending technology transforms the global network of over 200 million parked domains into decentralized storage infrastructure specifically designed for Web3 applications and immutable ledger systems.

Unlike traditional blockchain storage solutions that rely on consumer hardware with inherent privacy and reliability concerns, Roën utilizes dedicated hosting infrastructure through parked domains to deliver enterprise-grade security and stability while maintaining pure decentralization. This innovative approach addresses critical challenges facing financial institutions by providing enhanced security through immutable ledger storage distributed across decentralized nodes, eliminating the vulnerabilities and instability associated with consumer-grade hardware dependencies.

By leveraging the vast untapped potential of parked domains, Roën offers a fundamentally different and more reliable approach to blockchain storage that bridges the gap between traditional web infrastructure and the emerging Web3 ecosystem.

## References

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