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(57) Abstract :

The proposed invention discloses a decentralized delivery service system that leverages blockchain technology to enable efficient and secure transportation of packages and items from senders to recipients. The system comprises a network of participating nodes, including senders, recipients, and delivery agents, connected through a blockchain-based platform. Senders can initiate delivery requests by providing recipient addresses, delivery dates, and specific instructions. These requests are disseminated to the network, allowing delivery agents to submit bids. The winning bid is selected, and the chosen delivery agent carries out the delivery. Throughout the delivery process, the delivery agent updates the status on the blockchain-based platform. Recipients can monitor the progress in real-time and receive timely notifications. Upon verification of package receipt, the payment is automatically released to the delivery agent, with the transaction recorded securely on the blockchain. The network of participating nodes, along with the blockchain-based platform, enable seamless communication and tracking, providing a reliable and trustworthy delivery experience.

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