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(57) Abstract :
Disclosed herein is a counterfeit product identification system (100) comprises a decentralized blockchain network (102), a secure and decentralized database (104), tamper-proof QR codes, and verification records, a manufacturer registration and authentication module (106) designed to securely register and authenticate manufacturers, a manufacturer dashboard (108) providing secure interface for manufacturers to manage product details and upload product information, a tamper-proof quick response (QR) code generator module (110) utilizing secure graphic techniques for unique and copy-sensitive generation of quick response (QR) codes associated with registered products, a customer registration and authentication module (112) allowing customers to securely register and authenticate, a quick response (QR) code scanner module (114), a real-time verification module (116) comparing the unique quick response (QR) code provided by the consumer with the quick response (QR) code stored in the blockchain, an alert mechanism module (118) triggered in response to a counterfeit product scan, notifying manufacturers in real-time.

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