(12) PATENT APPLICATION PUBLICATION   (21) Application No.202211066014 A

(19) INDIA

(22) Date of filing of Application :17/11/2022   (43) Publication Date : 02/12/2022

(54) Title of the invention : BLOCKCHAIN-BASED SYSTEM AND METHOD FOR MANAGING PHARMACEUTICAL SUPPLY CHAIN

(51) International classification	:H04L0009320000, G06Q0010080000, G06F0016270000, H04L0009060000, G16H0020130000	(71)**Name of Applicant :**
		  1)Chitkara University
		   Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
		  2)Bluest Mettle Solutions Private Limited
		Name of Applicant : NA
		Address of Applicant : NA
		(72)**Name of Inventor :**
		  1)KAUSHAL, Rajesh Kumar
		Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
		  2)MISHRA, Rahul
		Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- -----------
		  3)SINGH, Dhiraj
		Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- -----------

(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The present disclosure relates to a system for managing pharmaceutical supply chain using blockchain. The system includes a distributed database over a blockchain network, and distributors, pharmacists, and end-users are communicatively coupled to the decentralized database by computing devices. Additionally, the distributed database receives stock information, from the manufacturer, adds the received stock information to the decentralized database, and correspondingly generates a hash ID. The distributor, upon receiving the stock, authenticates the stock information and the generated hash ID and delivers it to a pharmacy. Furthermore, the pharmacist authenticates the received plurality of drugs and the generated hash ID, at the pharmacy, and upon successful authentication, the pharmacist sells the received drugs, also enabling end-user to verify and check quality of the drugs, thus preventing sale of fake drugs.

No. of Pages : 25 No. of Claims : 10