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| (51) International classification :G06Q0020400000, H04M0003220000, G06N0020000000, H04M0003436000, H04M0001663000 | (71)**Name of Applicant :**<br>  1)**Chitkara University**<br>   Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------<br>  2)**Bluest Mettle Solutions Private Limited** |
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(57) Abstract :
The telephony fraud prevention system (100) is a robust and adaptive solution designed to safeguard against fraudulent phone calls. It comprises a processing unit (104) responsible for analyzing incoming call metadata, a database (110) containing records of known fraudsters and fraudulent phone numbers, a machine learning algorithm (106) adept at detecting suspicious call patterns, and a real-time blocking mechanism (108) that effectively blocks fraudulent calls. Additionally, the system can employ a voice analysis algorithm to scrutinize caller voices for signs of fraud. It comprehensively analyzes call metadata, encompassing phone numbers, call duration, call frequency, and call time, using the machine learning algorithm to identify suspicious calls. The real-time blocking mechanism compares incoming calls against the fraud database, promptly blocking identified fraudulent calls and alerting recipients when calls are suspicious but not fraudulent.

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