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(54) Title of the invention : SYSTEM AND METHOD FOR CLIENT-SIDE AUTHENTICATION FOR SELECTING SERVICES AT A GIVEN PORT NUMBER

(51) International classification :H04L0009320000, H04W0012060000, H04L0067020000, G06F0021330000, G06F0021620000	(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)**MISHRA, Rahul** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India Pune ----------- ----------- 2)**SINGH, Dhiraj** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India Pune ----------- ----------- 3)**MANTRI, Archana** Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Patiala ----------- -----------
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(57) Abstract :

The present disclosure provides a client-side authentication system (100) to service selection within specified port numbers. The system (100) includes a processor (104) that initiates an authentication process from a client device (102) to a server (112), leading to the reception of a server response containing a comprehensive list of available services tied to specific port numbers. This initiates an authentication protocol, forging a secure, mutually authenticated link between the client device and the server. Central to the system's robust security architecture is the meticulous validation of server authenticity and the verification of the requested service's alignment with the correct port number. Upon successful authentication and port number validation, the system grants secure access to the desired service. Moreover, the validation of server authenticity and port numbers performed directly by the client device, solidifying the system's security

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