

ABSTRACT

IPV6-BASED MULTI-FACTOR AUTHENTICATION ROOT SYSTEM AND METHOD

5 An IPv6-based multi-factor authentication root system and method are disclosed. The system includes: a first extraction module configured to obtain a number of pieces of identity information, a number of pieces of enterprise information, and an enterprise code of a user; a second extraction module configured to obtain an IPv6 digital address of the user; a third extraction module configured to obtain a number of digital certificates and a number of
10 corresponding keys; an information authentication module configured to perform digital authentication on the identity and enterprise information according to address segments of the IPv6 digital address and generate authenticated information; an electronic seal generation module configured to generate an electronic name seal and an electronic official seal; and a root certificate issuance module configured to perform multi-key verification and issue a
15 number of root certificates when the user issues a request.

[FIG. 1]