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DIGITAL SIGNATURE OR ELECTRONIC SEAL AUTHENTICATION SYSTEM AND RECOGNIZED MARK MANAGEMENT PROGRAM

ABSTRACT

A mark management server (101) for certifying digital data based on a digital mark to enable realization of identity authentication and data certification when the digital data is transmitted or received on a network (120A, 120B, 108). The server includes a mark management processor (221) for receiving a mark registration request demanding a new registration or updating of the mark from a mark terminal device (111), embedding identity authentication information obtained by encrypting information for identity authentication of a request originator with use of a cryptograph key in a mark design of the request originator to create a mark, and distributing the created mark to the request originator together with a decoding key for decoding of the identity authentication information attached thereto, and a mark decoding key management processor for registering the decoding key for decoding of the encrypted identity authentication information in a mark decoding key management DB and transmitting the registered decoding key to the associated mark terminal device (111).

Figure 2