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United States Patent [19] Bjorn

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Table with 4 columns: Reference number, Title, Date, Inventor/Author, and Page number. Includes entries for [54] CRYPTOGRAPHIC KEY GENERATION USING BIOMETRIC DATA and [75] Inventor: Vance Bjorn, San Carlos, Calif.

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FOREIGN PATENT DOCUMENTS

Table with 4 columns: Reference number, Title, Date, and Document Number. Includes entries for [21] Appl. No.: 08/970,304, [22] Filed: Nov. 14, 1997, [51] Int. Cl. 7, [52] U.S. Cl., and [58] Field of Search.

[56] References Cited

U.S. PATENT DOCUMENTS

Table of U.S. Patent Documents with columns for Patent Number, Date, Inventor, and Page Number. Lists numerous patents such as Rudie (12/1968), Cuttill et al. (3/1975), Jordan et al. (6/1976), etc.

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[57] ABSTRACT

A method and apparatus for generating a cryptographic key using biometric data is provided. A fingerprint is received, and features are extracted from the fingerprint. These features may include one or more of the following: A message is created based on the features of the fingerprint.

Another embodiment of the present invention uses features of the fingerprint image to generate a digital certificate. The public key used for the digital certificate is based on a fingerprint image. In one embodiment, the digital certificate contains a template including the fingerprint image or the features extracted from the fingerprint image.

26 Claims, 9 Drawing Sheets

