



(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0186838 A1**  
**Brandys** (43) **Pub. Date: Dec. 12, 2002**

(54) **SYSTEM AND METHOD OF USER AND DATA VERIFICATION**

(52) **U.S. Cl.** ..... **380/30; 713/185**

(76) **Inventor: Pascal Brandys, Del Mar, CA (US)**

(57) **ABSTRACT**

Correspondence Address:  
**KNOBBE MARTENS OLSON & BEAR LLP**  
**2040 MAIN STREET**  
**FOURTEENTH FLOOR**  
**IRVINE, CA 91614 (US)**

A system and method of authenticating users and data. One embodiment of the invention includes a smart card that digitally signs a message in response to authenticating biometric information that is provided by a user. The smart card may include a random number generator and an encryption module. In an enrollment mode, the biometric data analyzer receives biometric data from a user and triggers the random number generator to create a public key and a private key. The private key is stored in a tamper-resistant component on the smart card. The public key is transmitted to an external device, such as a computer, via a card reader interface. During a signing mode, the smart card digitally signs incoming messages subsequent to verifying the biometric information that is provided by the user.

(21) **Appl. No.: 10/096,416**

(22) **Filed: Mar. 11, 2002**

**Related U.S. Application Data**

(60) **Provisional application No. 60/274,518, filed on Mar. 9, 2001.**

**Publication Classification**

(51) **Int. Cl.<sup>7</sup> ..... H04K 1/00**

