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(54) **RANDOM BIOMETRIC AUTHENTICATION METHODS AND SYSTEMS**

(76) Inventor: **Luis M. Ortiz**, Dallas, TX (US)

Correspondence Address:
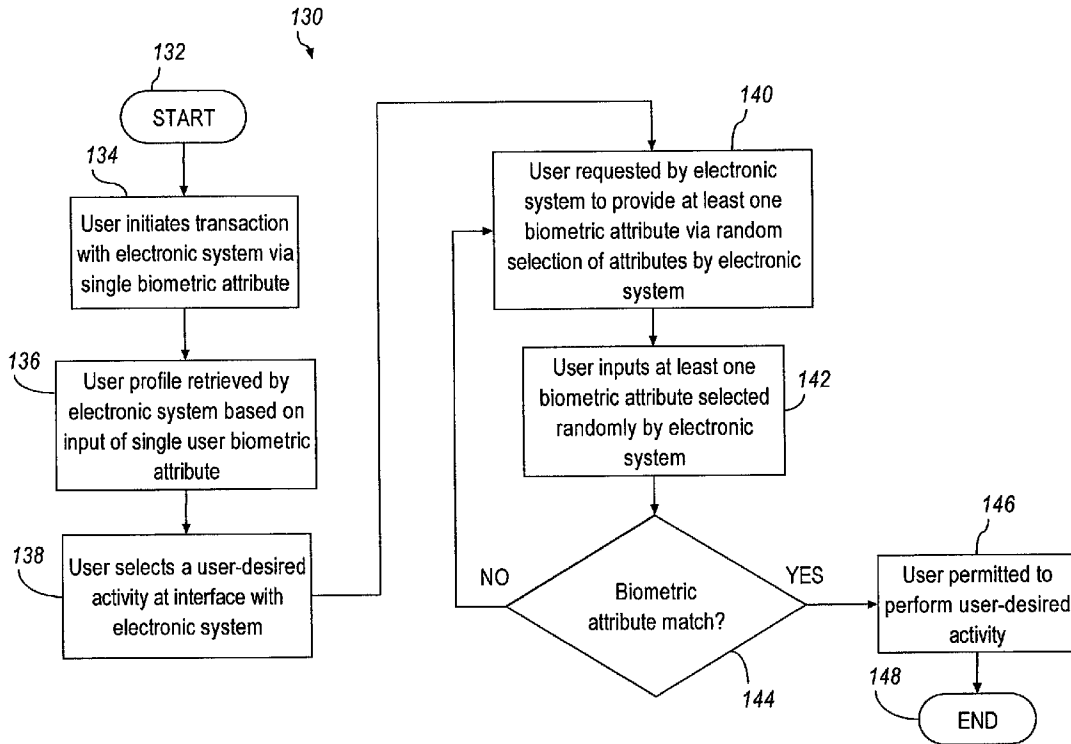**Kermit D. Lopez**
PO Box 7720
Dallas, TX 75209-0720 (US)

(57) **ABSTRACT**
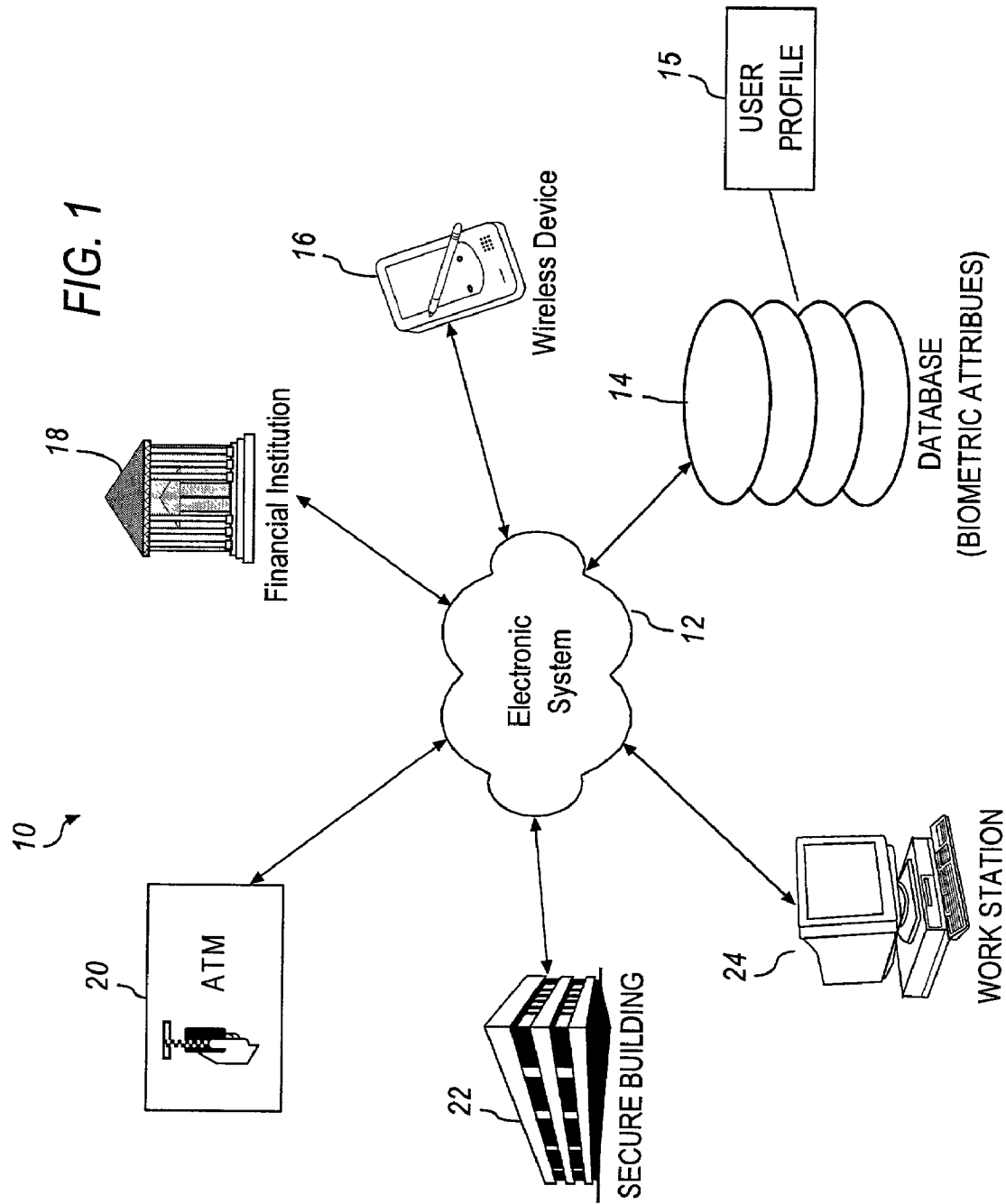
Methods and systems for biometrically securing access to electronic systems. A user prompted to input to the electronic system at least one biometric attribute randomly selected from a user profile containing biometric attributes of the user. A user may be prompted to input such a biometric sample through a user interface integrated with the electronic system. A user may be permitted to perform a user-desired activity, such as accessing an ATM machine, particular data, or entry to a secure area, if at least one biometric attribute input by the user to the electronic system matches at least one biometric attribute randomly selected from the user profile. A user profile may be generally accessible from a server through the electronic system. A user profile may also be accessible from a biometric broker through the electronic system over a secure network connection. A user profile may also be accessible from a hand held device, such as a smart card, wireless PDA or wireless communication device.

FIG. 1

USER PROFILE

15

Wireless Device

16

Financial Institution

18

Electronic System

12

DATABASE (BIOMETRIC ATTRIBUES)

14

10

ATM

20

SECURE BUILDING

22

WORK STATION

24

FIG. 2

FIG. 3

80

BIOMETRIC ATTRIBUTES

1. Fingerprint Verification

2. Voice Print

3. Retinal Scan

4. Iris Scan

5. Hand Geometry

6. Facial Scan

7. Signature Verification

82

USER PROFILE BASED
ON BIOMETRIC
ATTRIBUTES OF USER

FIG. 4

DOCKET ALARM
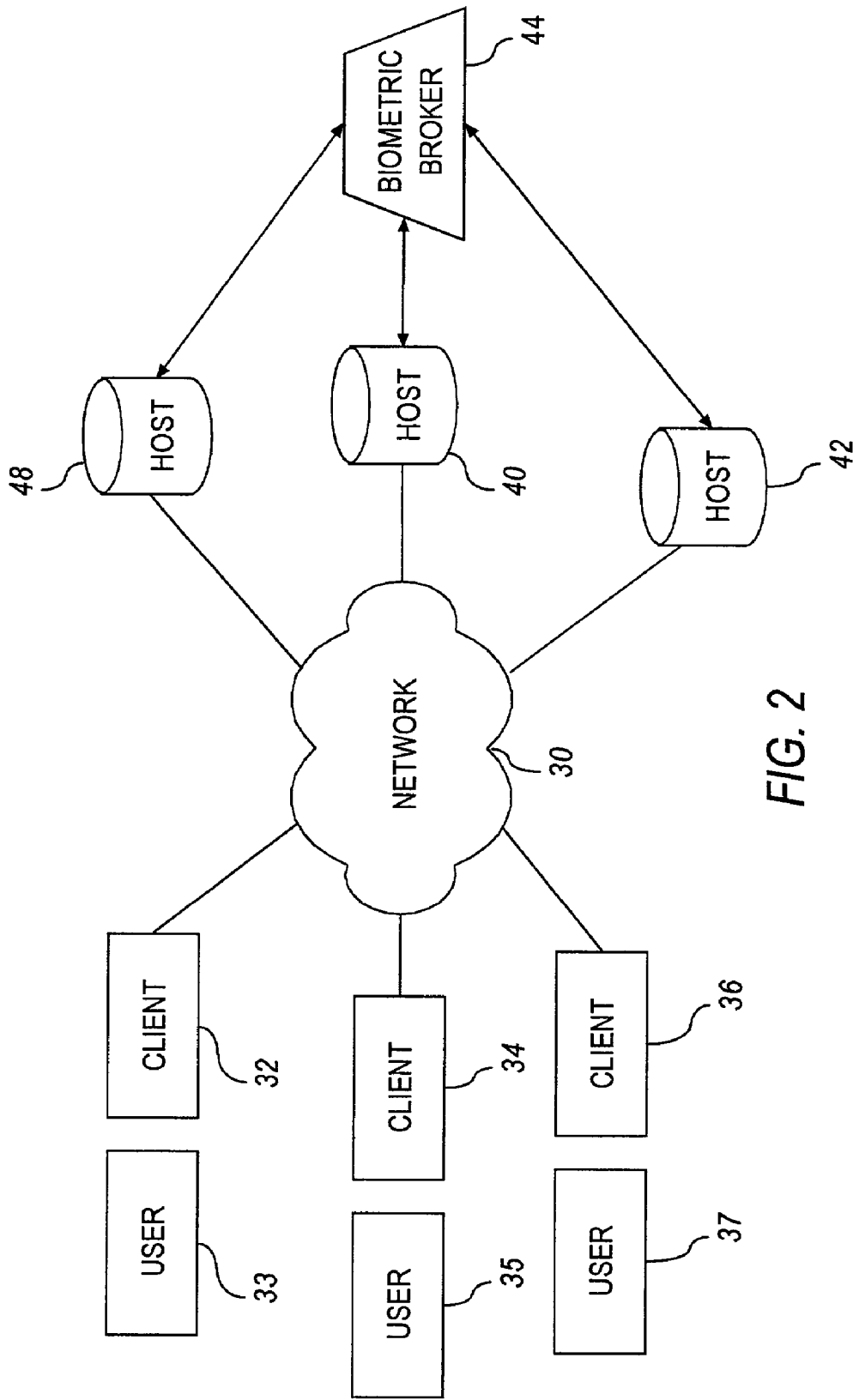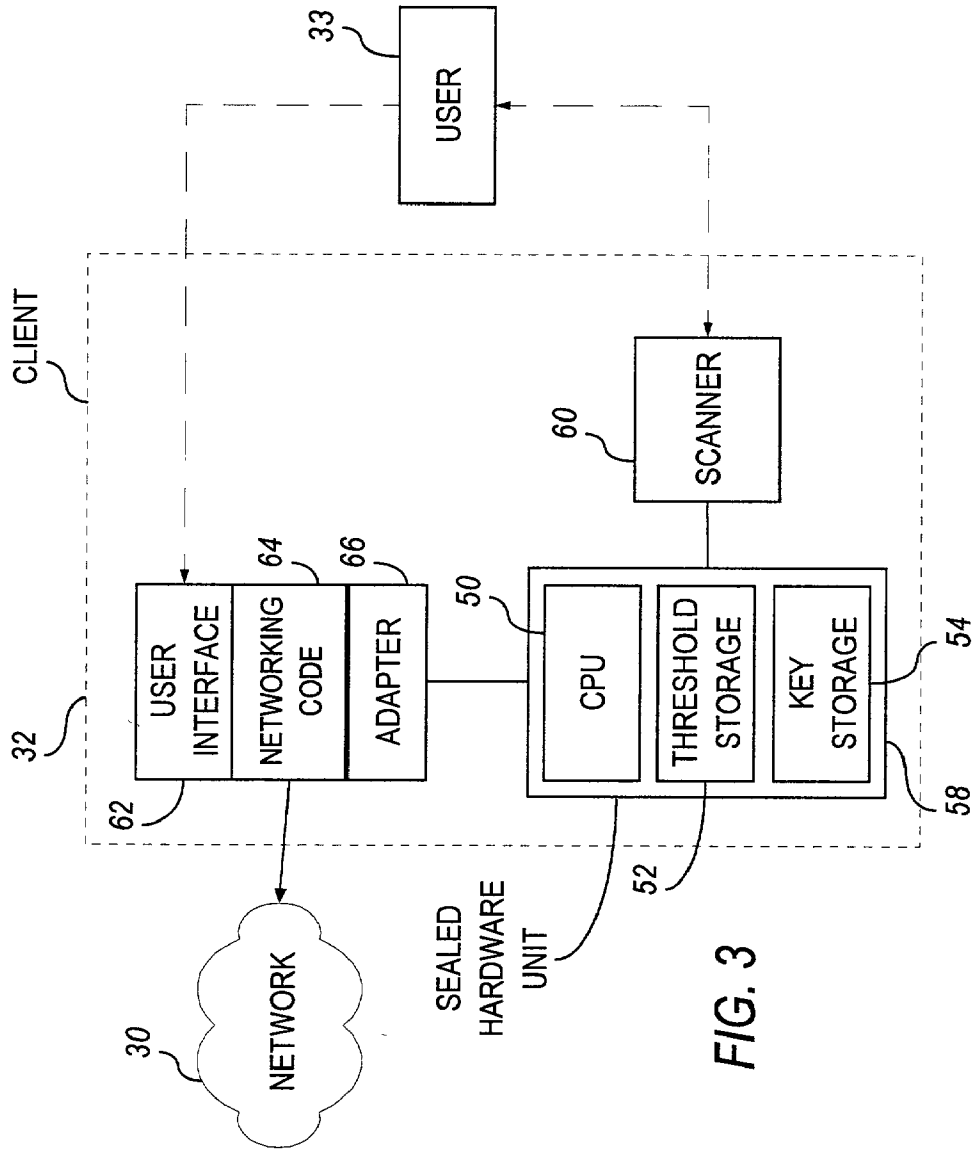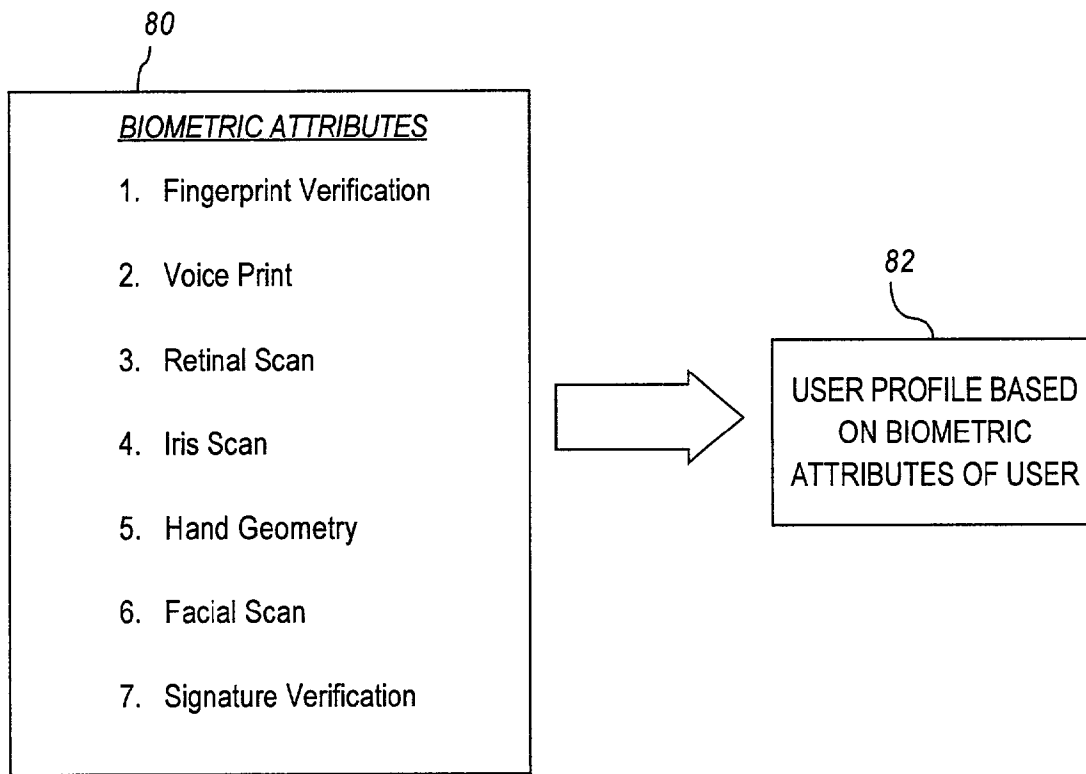
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