



(12) **United States Patent**
Brooks

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- (54) **METHOD AND SYSTEM FOR BIOMETRIC RECOGNITION BASED ON ELECTRIC AND/OR MAGNETIC PROPERTIES**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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Related U.S. Application Data

- (63) Continuation of application No. 09/566,058, filed on May 5, 2000, which is a continuation of application No. 09/151,847, filed on Sep. 11, 1998, which is a continuation of application No. 09/151,908, filed on Sep. 11, 1998, and a continuation of application No. 09/151,847, filed on Sep. 11, 1998.
- (51) **Int. Cl.**⁷ **B06K 9/00**
- (52) **U.S. Cl.** **382/115**; 600/506; 340/5.82; 340/5.52
- (58) **Field of Search** 382/115, 118, 382/128, 124-126; 340/825.3, 825.31, 825.34; 902/3, 4, 5, 6; 235/379, 380, 381, 382; 73/579, 585, 587; 128/746, 920, 630, 647, 660.01; 600/559, 506

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(57) **ABSTRACT**

A method and apparatus for biometric recognition of an individual living organism uses electric and/or magnetic or acoustic energy. A biometric recognition system measures at least one bio-electrical and/or biomagnetic property to recognize of an individual living organism's identity. In one embodiment, an individual's hand is tested to provide a ratio of internal electric and/or magnetic properties of the fingers. This provides a biometric signature that is placed in memory for later comparison with a measured ratio of a presented hand to validate the individual's identity. The method and apparatus can be used to enable operation of a computer, or provide secure communication between an individual at a first location and a second location.

26 Claims, 50 Drawing Sheets

