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**Hamid et al.**

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(54) **SECURITY ACCESS METHOD AND APPARATUS**

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(51) **Int. Cl.**<sup>7</sup> ..... **H04L 9/32**

(52) **U.S. Cl.** ..... **713/186**; 713/200; 713/202; 713/182; 713/185; 382/115; 382/124; 382/116; 382/125; 340/5.8; 340/5.82; 340/10.42; 340/523; 340/541; 340/572.4; 902/3; 705/5; 705/54; 707/3; 707/6

(58) **Field of Search** ..... 713/186, 185, 713/200, 201, 202, 182; 382/115, 116, 124, 125; 340/5.8, 5.82, 10.42, 541, 572.4, 572.7, 523; 902/3; 707/3, 6; 705/54, 5

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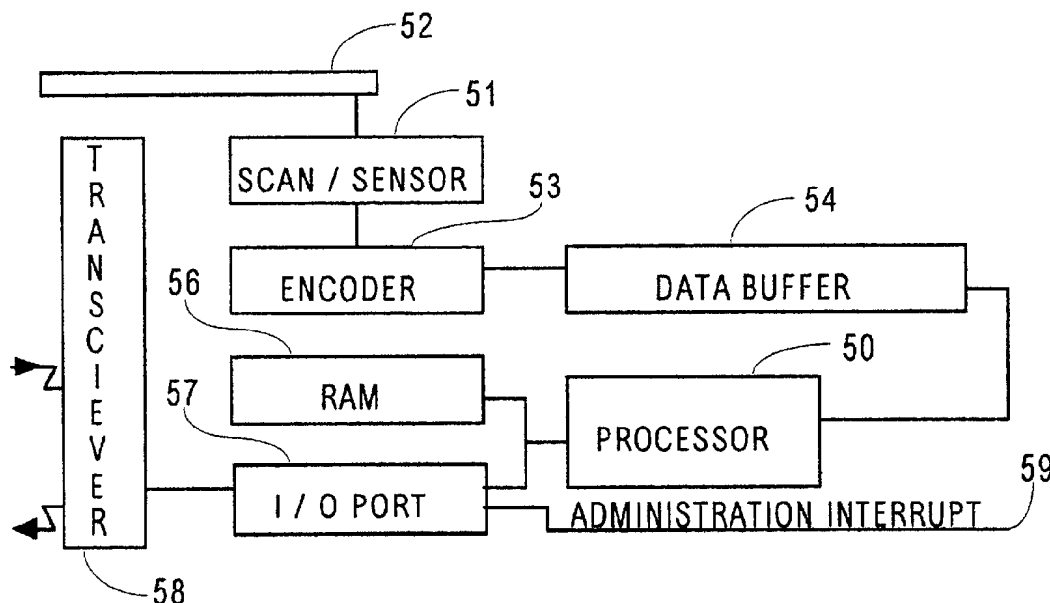
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(57) **ABSTRACT**

A portable biometric device enables a designated person to unlock any one portal exclusive of other portals of a secure entity and or a secure service by choosing which of their personal biometric characteristics is presented to the portable biometric device. The portable biometric device includes a biometric sensor such that a biometric characteristic of a person for example a finger pattern is read dependent upon the person presenting the biometric characteristic to the biometric sensor. The reading is encoded in order for a processor to determine if the biometric characteristic has been predesignated for access via a predesignated one of the plurality of portals. If so, the processor selects an appropriate authorization code which is communicated by wireless transmission for unlocking the predesignated one of the portals, to the exclusion of any other of the portals. In an alternate example the processor is a central controller remote from the biometric device. The central controller is responsive to a wireless transmission of the encoded reading, from the portable biometric device, for determining which one if any of the predesignated portals is to be unlocked.

**24 Claims, 4 Drawing Sheets**



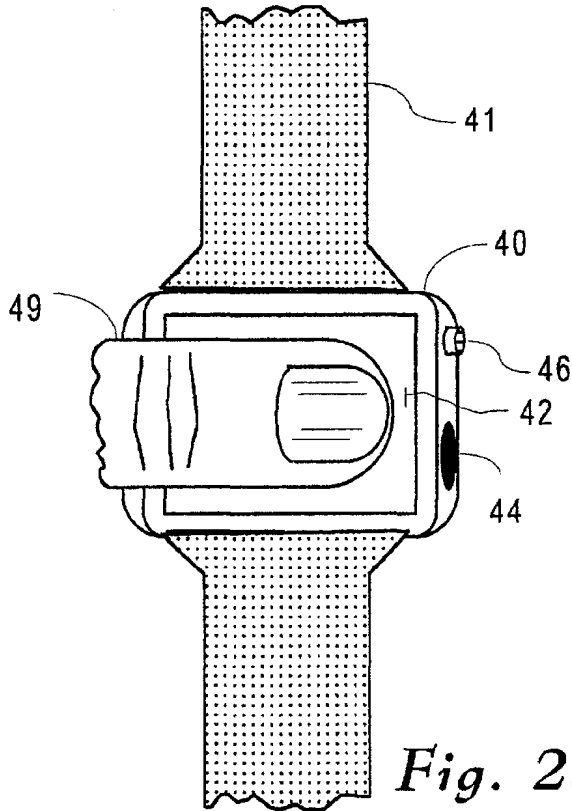


Fig. 2a

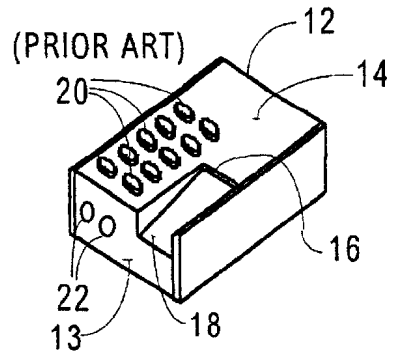


Fig. 1

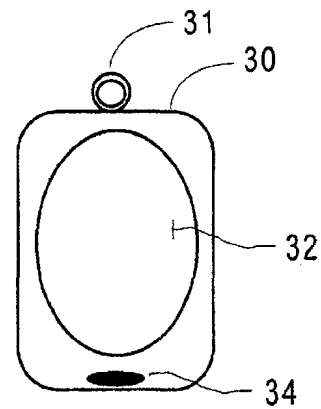


Fig. 2

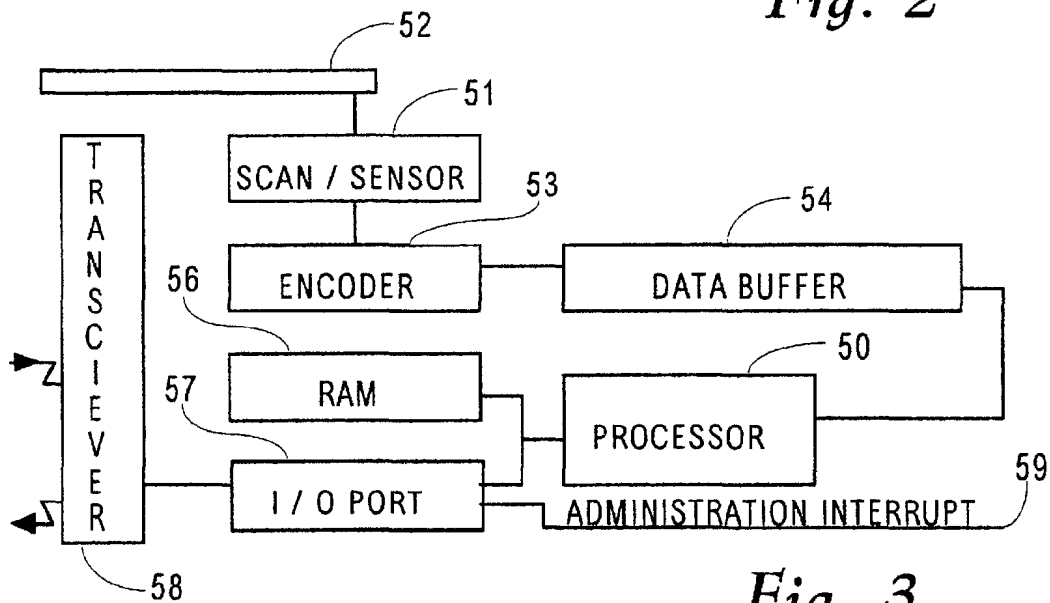


Fig. 3

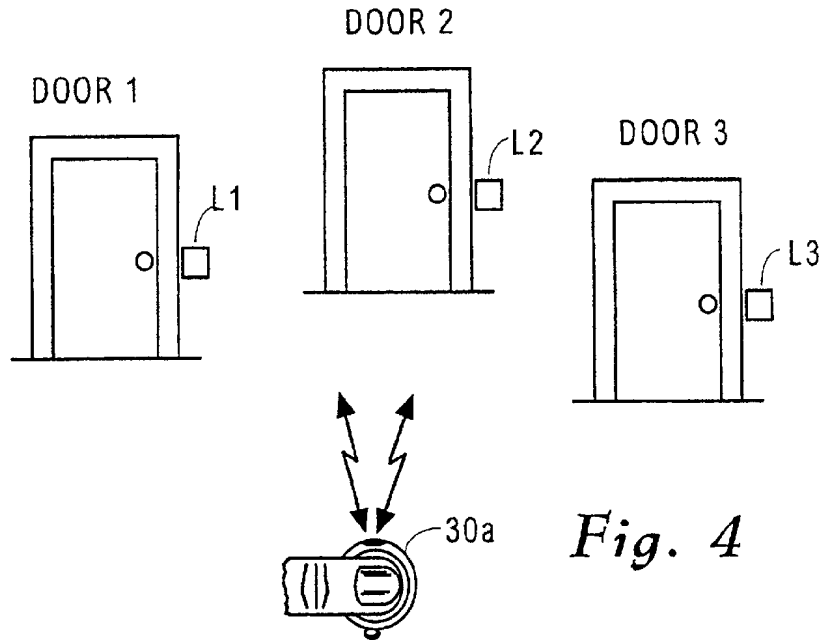


Fig. 4

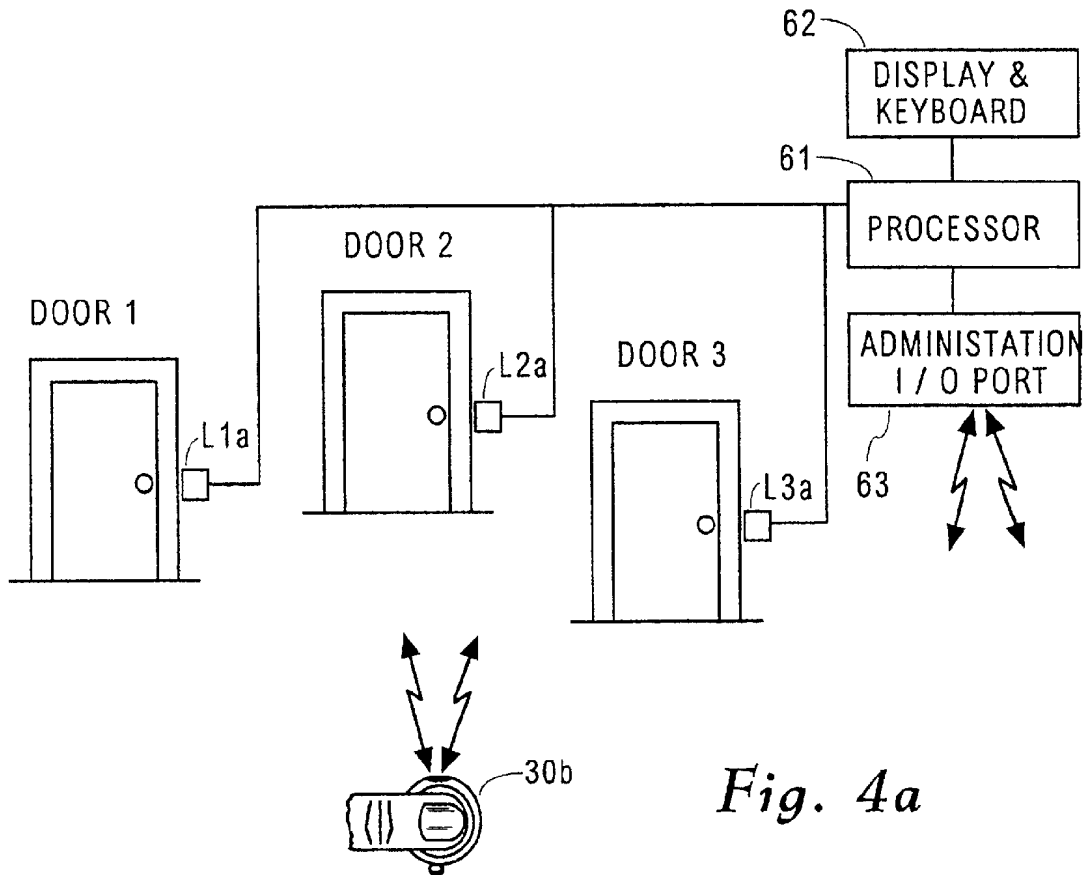


Fig. 4a

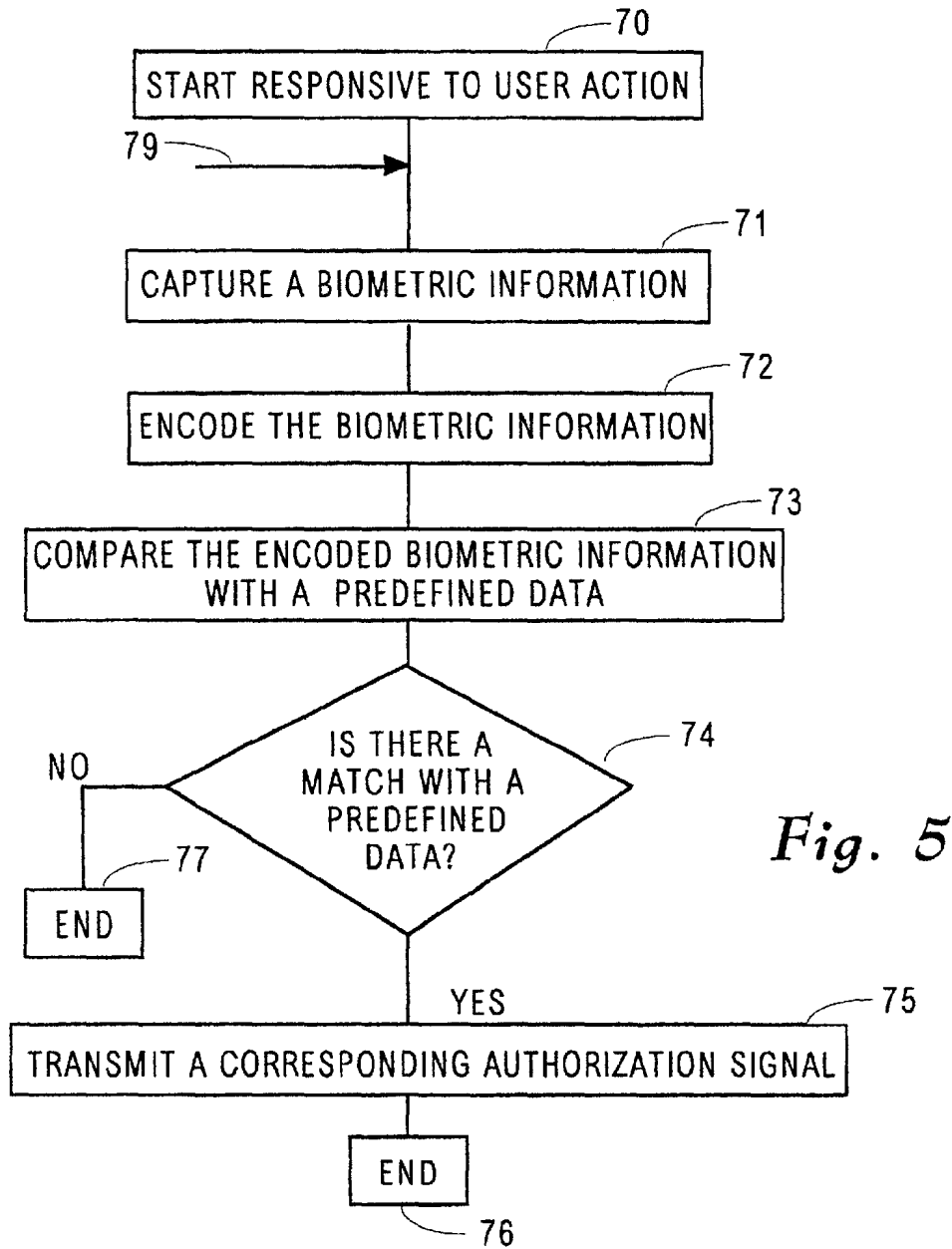


Fig. 5

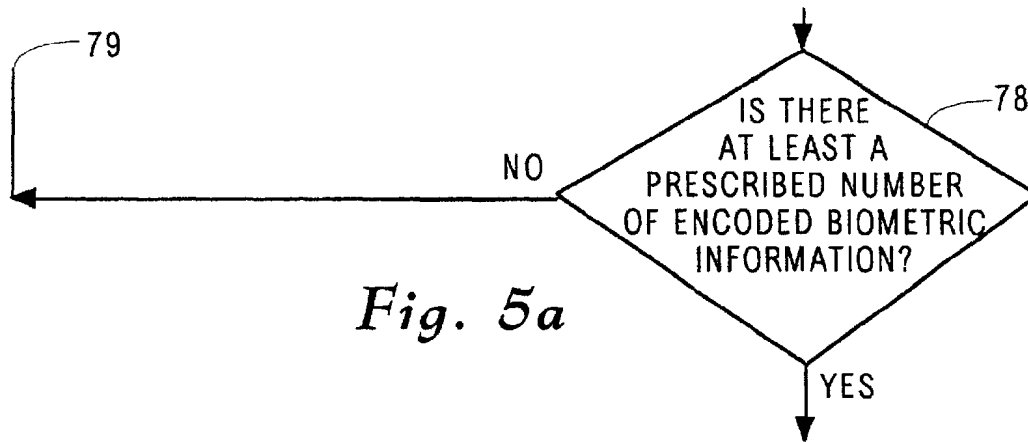


Fig. 5a

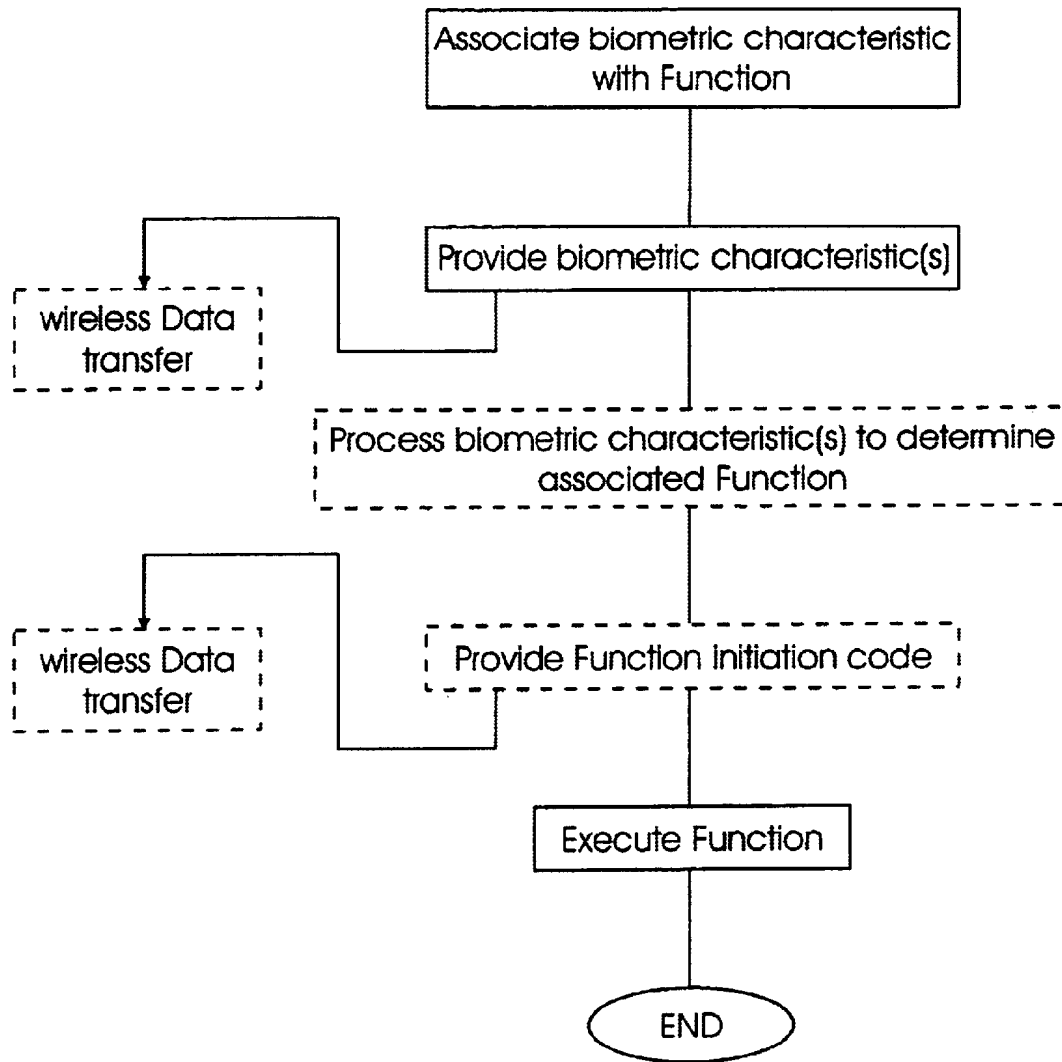


Fig. 6

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