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Bostrom

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(54) **DISTRIBUTED BIOMETRIC ACCESS CONTROL METHOD AND APPARATUS**

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(57) **ABSTRACT**

(73) **Assignee:** **NextgenID, Inc.**, San Antonio, TX (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

The present invention is directed to an access control apparatus and method. Enrollment is conducted at a centralized server and enrollment data, such as identification data is downloaded to plural local access units at respective entrances to a restricted area. The local access units then collect data of a person upon an attempted entry in to the area and compare the data with downloaded enrollment data to determine if the person is authorized for access. If the person is authorized, an access control device is operated to open a door, gate, or the like of the entrance. The enrollment data can be primary biometric data or primary and secondary biometric data, said secondary biometric data can be collected at the local access units. If a secondary type of biometric data is collected at the local access units and is correlated to data stored on the local access unit, data of the same type is compared to the downloaded data for access control. The primary enrollment data can be non-environmentally affected data, such as fingerprint parameter data and the secondary type of data can be environmentally affected data, such as facial parameter data. In cases where the primary biometric data does not correspond to stored primary biometric data, secondary biometric data can be collected and authenticated and new primary biometric data collected for potential addition to a user's primary biometric enrollments.

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(51) **Int. Cl.**
G06K 9/00 (2006.01)

(52) **U.S. Cl.** **382/124**; 382/118; 382/116

(58) **Field of Classification Search** 382/115–119, 382/124–127; 902/3–6; 235/380, 382, 382.5; 713/182, 186; 340/5.2, 5.53, 5.1, 5.8, 5.83
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,993,068	A *	2/1991	Piosenka et al.	713/186
5,802,199	A *	9/1998	Pare et al.	382/115
6,160,903	A *	12/2000	Hamid et al.	382/115
6,496,595	B1 *	12/2002	Puchek et al.	382/124

* cited by examiner

4 Claims, 4 Drawing Sheets

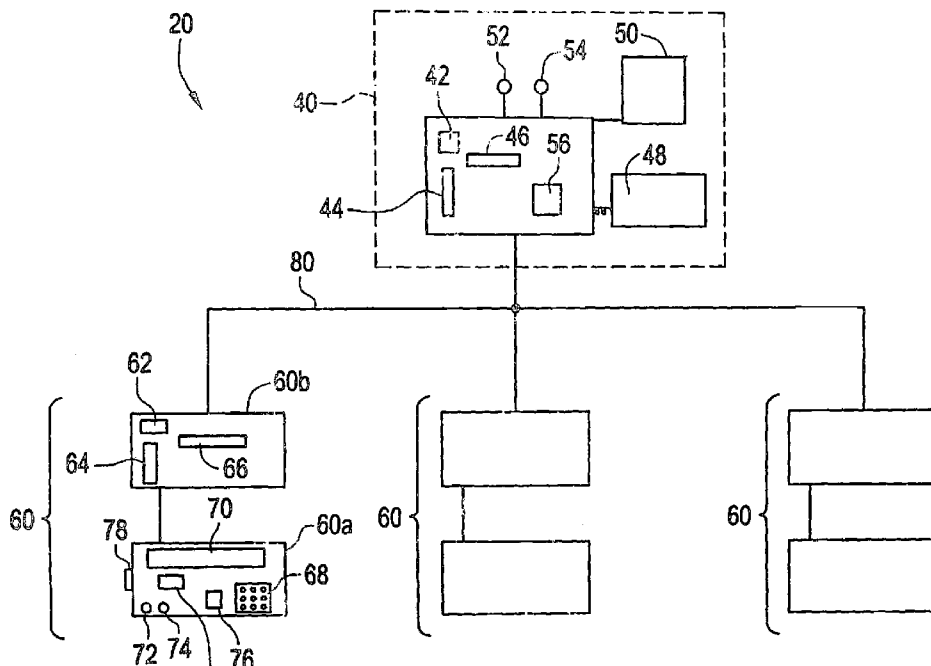


FIG. 1

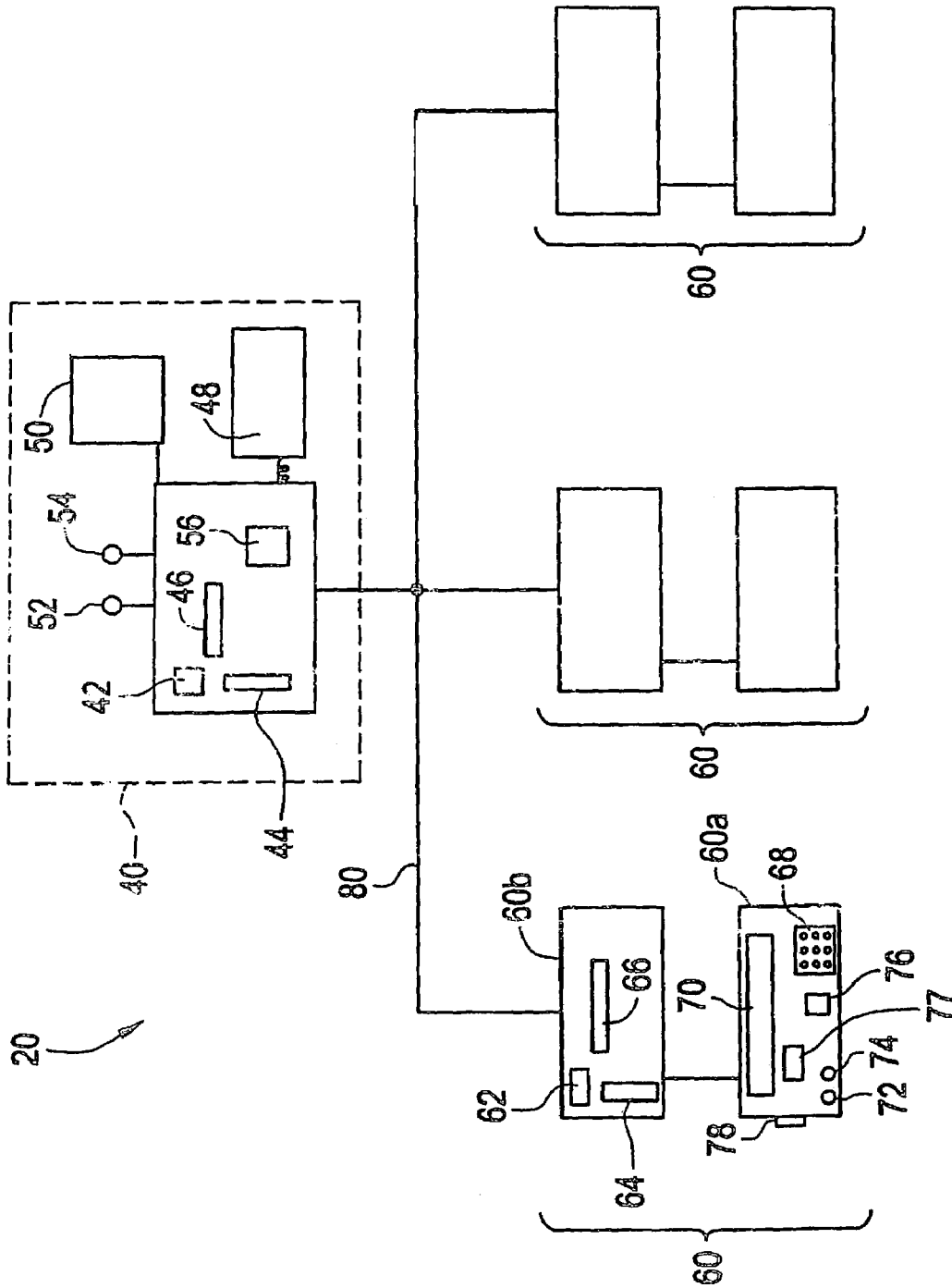


FIG. 2

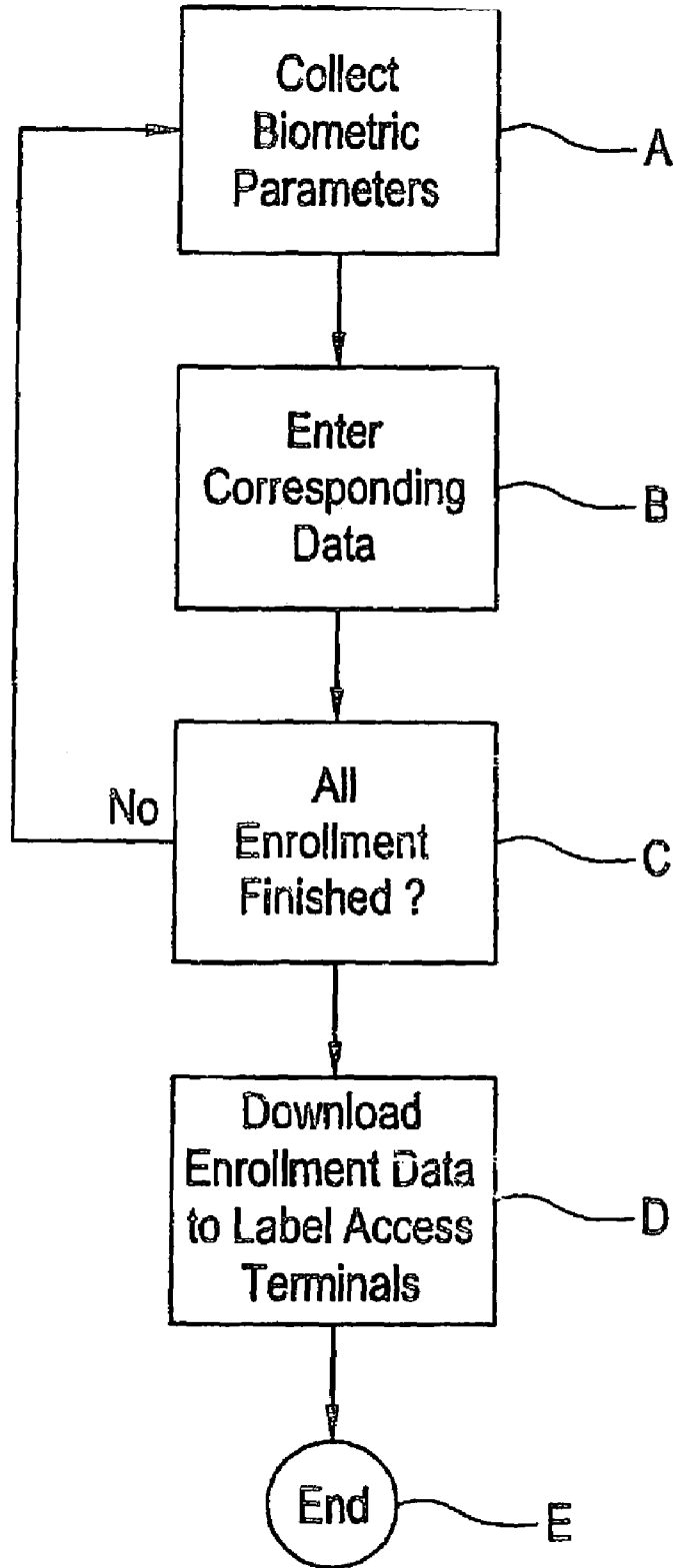


FIG. 3

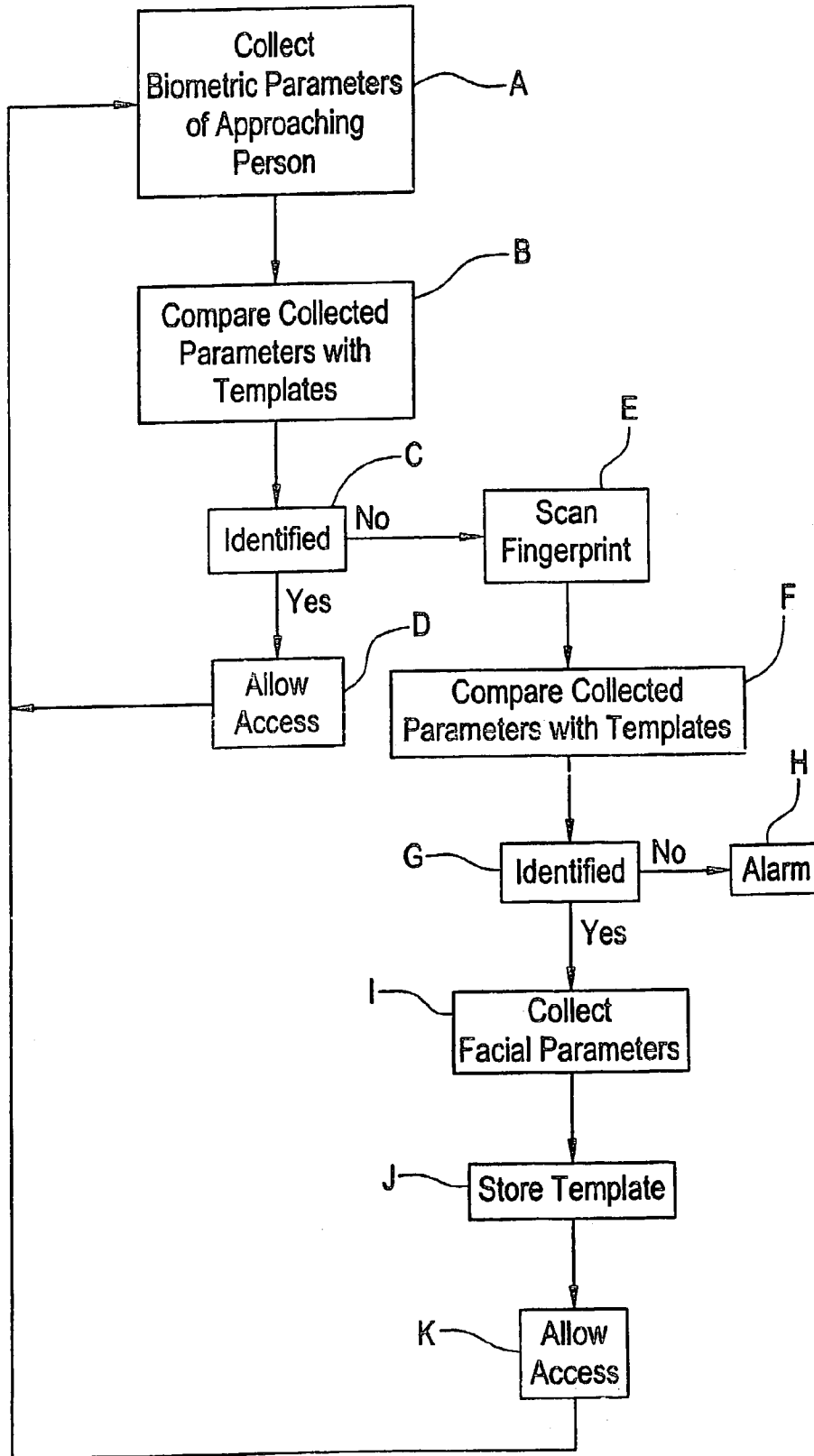
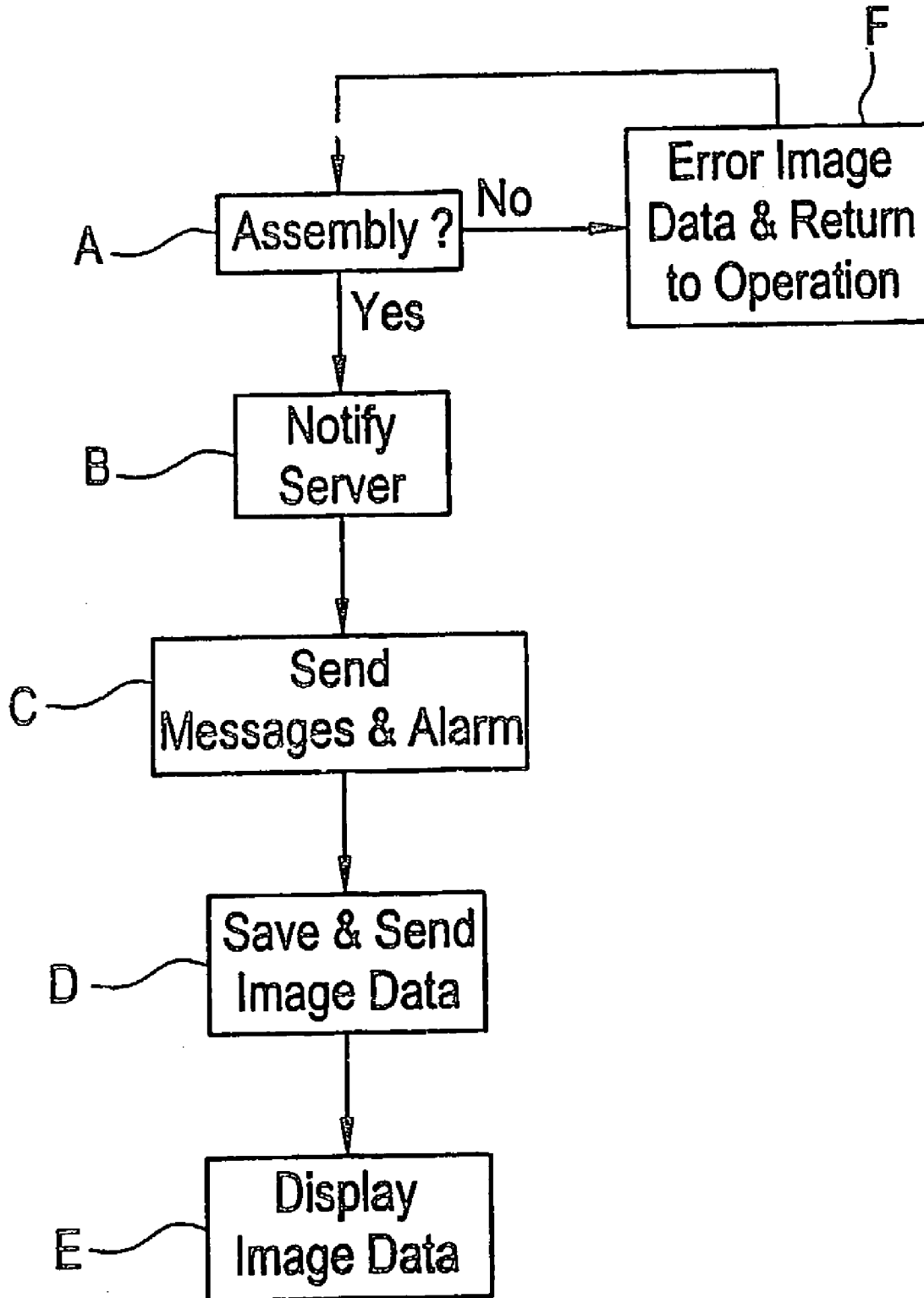


FIG. 4



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