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(54) **PORTABLE OR EMBEDDED ACCESS AND INPUT DEVICES AND METHODS FOR GIVING ACCESS TO ACCESS LIMITED DEVICES, APPARATUSES, APPLIANCES, SYSTEMS OR NETWORKS**

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(57) **ABSTRACT**

A portable or embedded access device is provided for being coupled to, and for allowing only authorized users access to, an access-limited apparatus, device, network or system, e.g. a computer terminal, an internet bank or a corporate or government intranet. The access device comprises an integrated circuit (IC) (1) providing increased security by bridging the functionality of biometrics input from a user and, upon positive authentication of the user's fingerprint locally to provide secure communication with the said access-limited apparatus, device, network or system, whether local or remote.

A corresponding method of using the portable device or the embedded device is disclosed for providing a bridge from biometrics input to a computer locally, into secure communication protocol responses to a non-biometrics network.

An embedded access control and user input device or apparatus for being a built-in part of stand alone appliances with some form of access control, e.g. hotel safes, medicine cabinet or the like, and for providing increased security, is also provided.

Further, a method of providing secured access control and user input in stand-alone appliances having an embedded access control or user input device according to the invention is also explained.

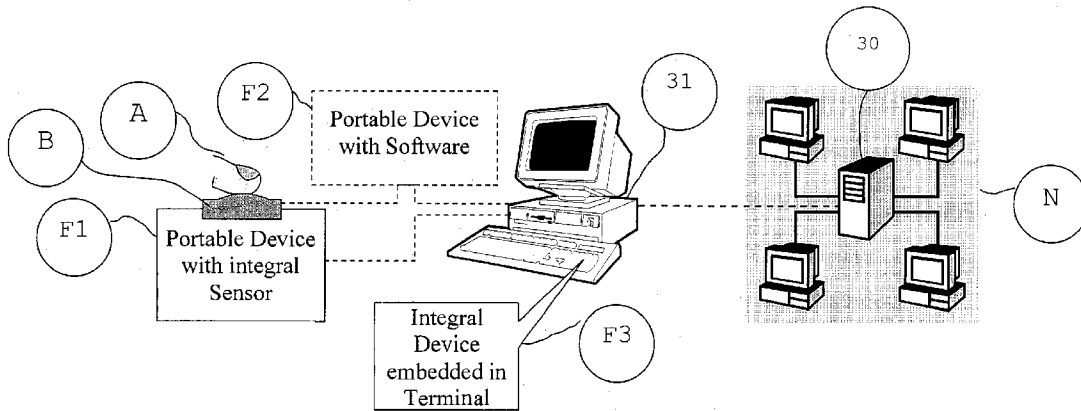


Figure 1a

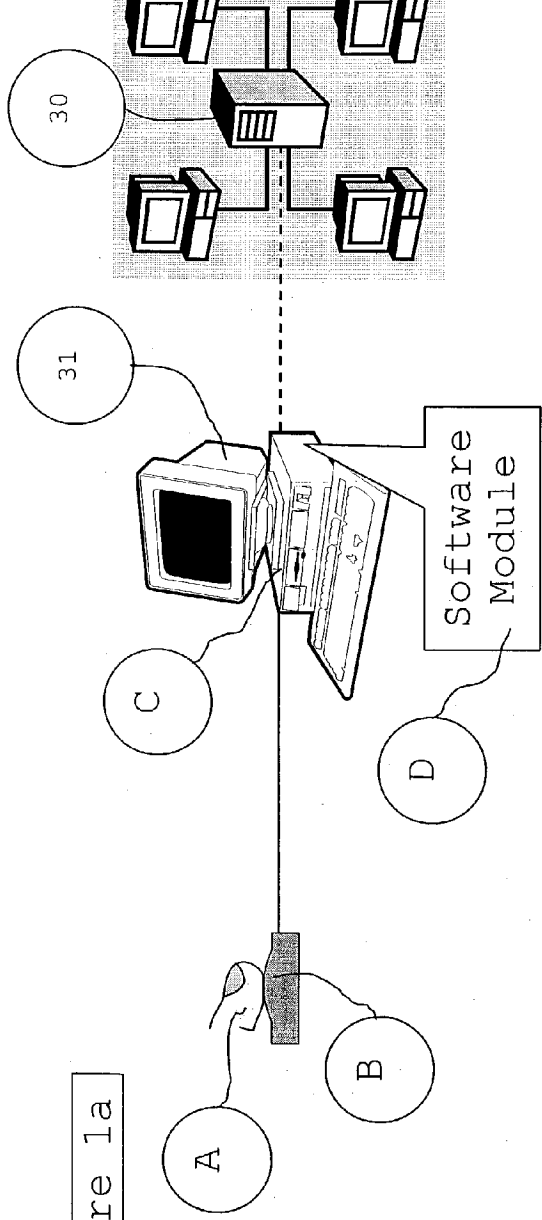
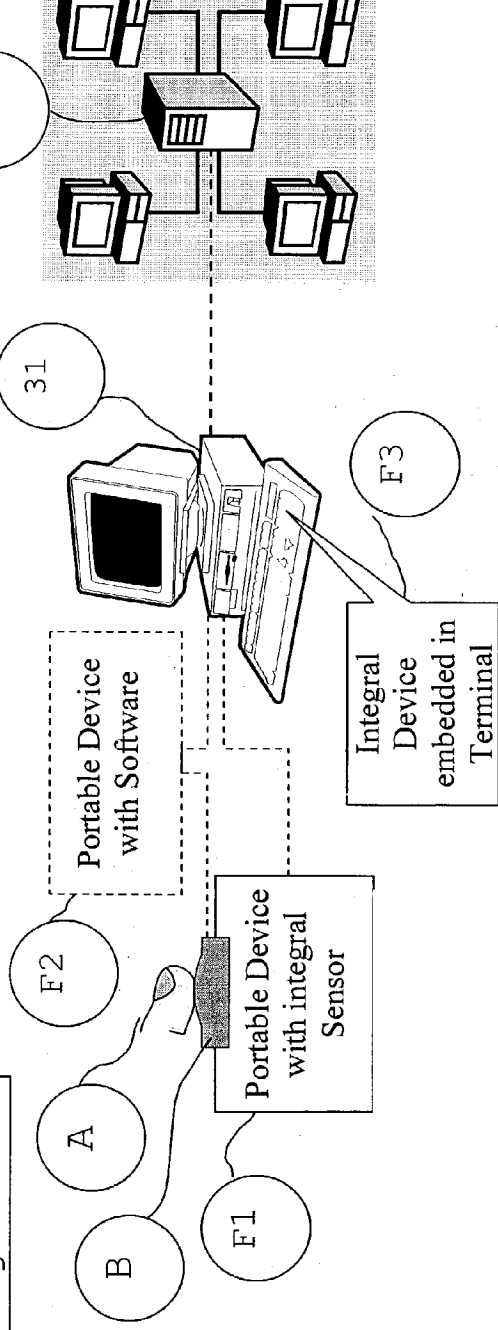


Figure 1b



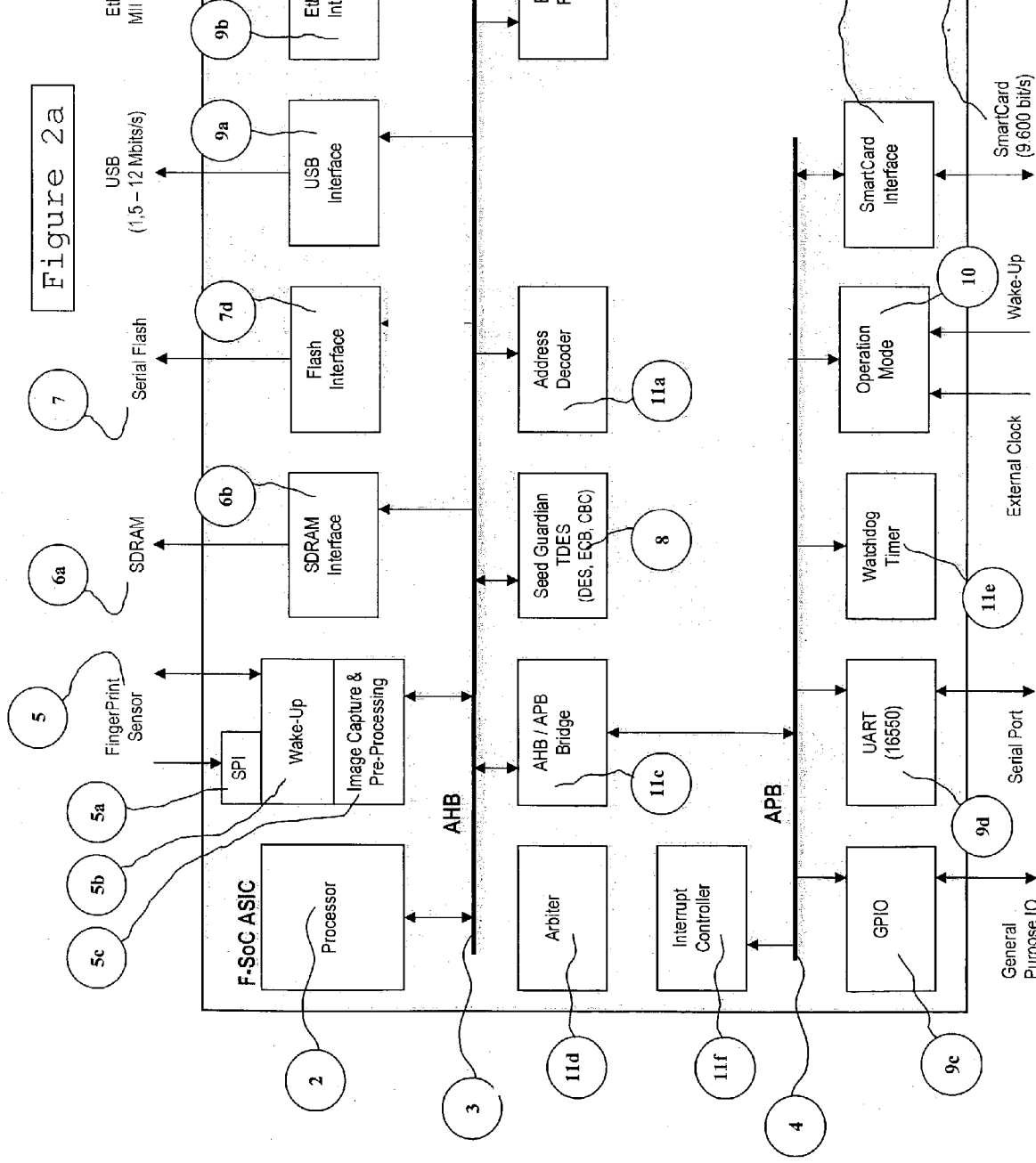


Figure 2a

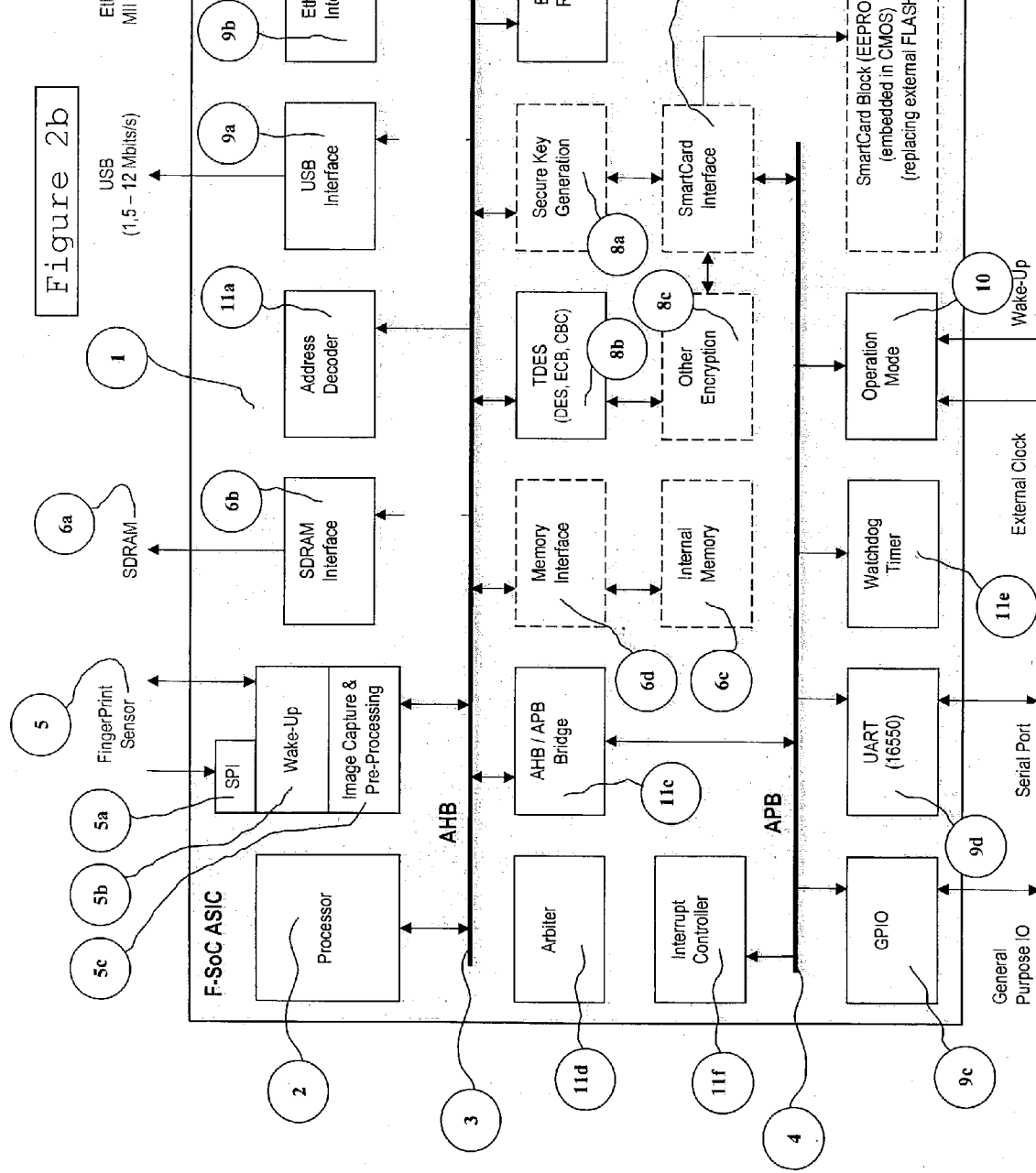


Figure 2b

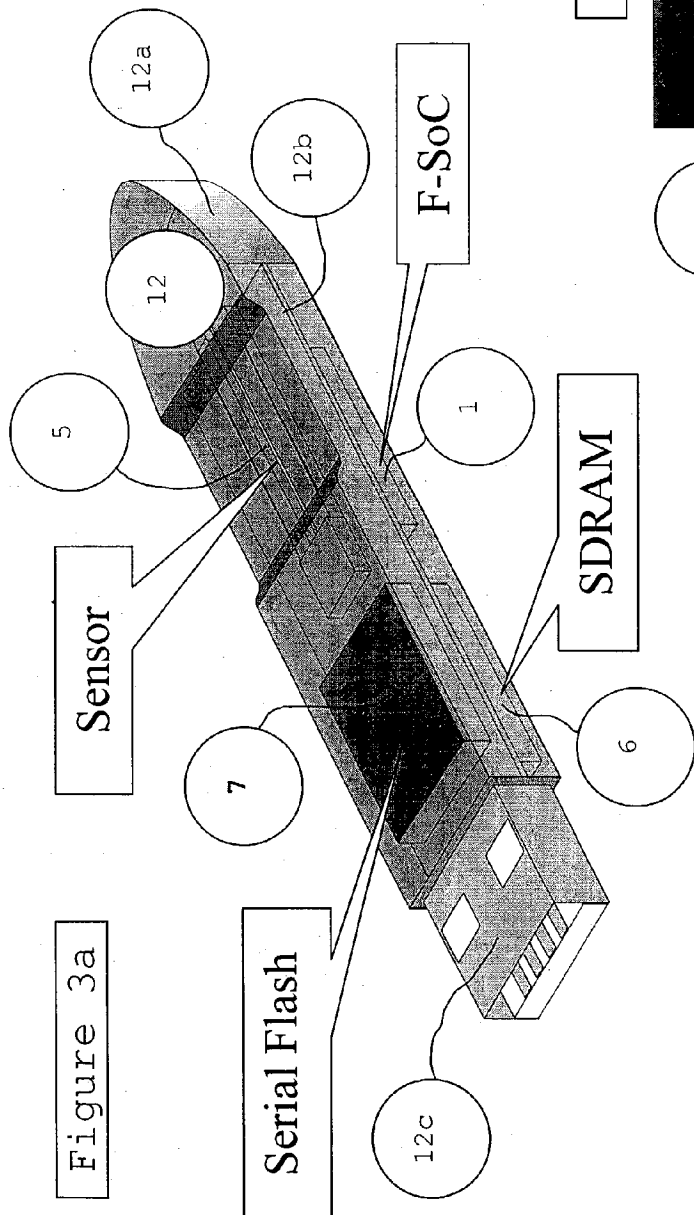


Figure 3a

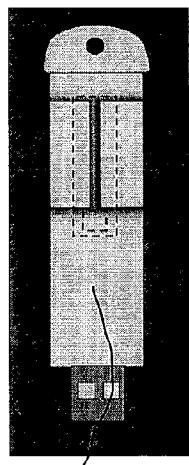


Figure 3b

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