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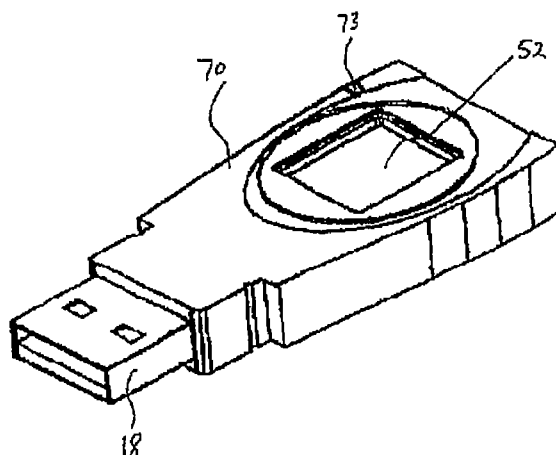
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- (71) Applicant (for all designated States except US): **TREK 2000 INTERNATIONAL LTD [SG/SG]**; 30 Loyang Way #07 13/14/15, Loyang Industrial Estate, Singapore 508769 (SG).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **POO, Teng, Pin [MY/SG]**; Apt Blk 44 Bedok South Road #11-763, Singapore 460044 (SG). **LIM, Lay, Chuan [MY/SG]**; Apt Blk 322, Bukit Batok Street 33, #03-04, Singapore 650322 (SG).
- (74) Agent: **WATKIN, Timothy, Lawrence, Harvey, Lloyd** Wise, Tanjong Pagar, P.O. Box 636, Singapore 910816 (SG)
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Title: A PORTABLE DEVICE HAVING BIOMETRICS-BASED AUTHENTICATION CAPABILITIES



(57) **Abstract:** Apparatus and method for implementing biometrics-based access control to a restricted resource. In a preferred embodiment, the present invention is realized using a portable device. Specifically, in one embodiment, the portable device includes a microprocessor, a non-volatile memory coupled thereto, and a biometrics-based authentication module controlled by the microprocessor. Preferably, the biometrics technology used is fingerprint authentication technology. The authentication module is capable of registering a fingerprint upon first use of the portable device, storing an encoded version of the fingerprint in the non-volatile memory. Subsequently, the authentication module can read a person's fingerprint and reliably determine whether the fingerprint matches the registered fingerprint stored in the non-volatile memory. If a match is found, access to the restricted resource is granted to that person; otherwise, access is denied. Embodiments of the present invention thus provide a highly convenient, secured and reliable method and system for user authentication and access control which was not achievable in prior art password-based authentication approaches.

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