

# ABSTRACT

## TITLE: AUTHENTICATION DEVICE AND AUTHENTICATION METHOD

5           An authentication OS is booted from the BIOS at the power up of an  
information processing apparatus then executes user authentication for the  
information processing apparatus, by performing an authentication process using  
devices initialized in its own mode. When the authentication is successful, the  
authentication OS writes a decryption key for an operation OS in a shared  
10 memory area and reboots the BIOS, while keeping the data in the shared  
memory area. The BIOS retrieves the operation OS decrypted with the  
decryption key for the operation OS into an OS operation area, thereafter the  
operation OS runs in a main memory.

15   Fig. 1A