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(57) Abstract :

The present invention discloses a USB device (100) designed for cross-platform application portability and execution. Equipped with an embedded processor (102), RAM (103), storage unit (104), OS detection module (106), and virtualization firmware (108), the device enables seamless application launching across different operating systems without installation. An encrypted data partition (105) ensures secure storage and state preservation. The device supports plug-and-play operation, sandboxed runtime, and optional bootable mode, offering consistent and secure performance across Windows, macOS, Linux, and Chrome OS platforms.

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