ABSTRACT

SECURED COMPUTER SYSTEM

There is provided a secured computer system, comprising a processing and memory unit (PMU) operatively connected to an input peripheral and an output peripheral. The PMU comprises a system memory comprising a protected memory and a shared memory, and a processor operatively coupled to the system memory, the processor including a set of instructions for enabling secure data storage and execution via the protected memory. The PMU further comprises an operating system and a group of modules executable by the operating system, each module in the group of modules having a designated secure region to be executed within the protected memory, the group of modules is configured to create authentication and share the input the data securely via the shared memory accessible thereto using a composite key, the composite key generated within the group using data sharing mechanism between the designated secure regions enabled by the set of instructions.

[Fig. 1]