DEVICE AUTHENTICATION

ABSTRACT

Authentication of two devices in communication with a third device is achieved where the first and second devices each possess a shared secret value. The authentication includes communication of authentication values from the first device to the second device using the third device. Similarly, there is communication of values from the second device to the first device using the third device. The third device retains the communicated values. The values are calculated to permit the third device to authenticate the first and second devices without the third device receiving the shared secret value. The authentication may be used to establish a communications channel between the first and the second devices.

(Fig. 1)