REMOTE AUTHENTICATION BASED ON EXCHANGING SIGNALS REPRESENTING BIOMETRICS INFORMATION

ABSTRACT

A method, an apparatus, and a computer program product for remote authentication are disclosed. The methods are based on exchanging of signals representing remote party's biometrics information (such as acoustic waveforms) and have application in secure telephony or video-conferencing communications over open networks. The apparatus includes a speech encoding/decoding module (632), a control module (636), an encryption/decryption module (640), a key generator (650), a Diffie Hellman key exchange system (660), a timer module (670) for measuring time between a challenged statement and a corresponding response statement, an input/output (I/O) module (680) for transmitting and receiving data via a communications channel 610.

FIG. 6