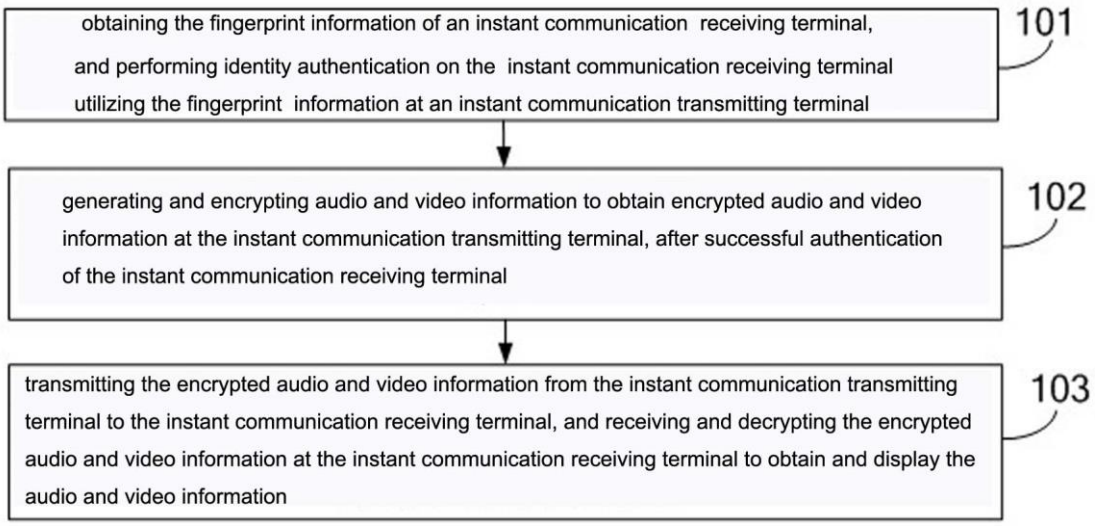
obtaining the fingerprint information of an instant communication receiving terminal, and performing identity authentication on the instant communication receiving terminal utilizing the fingerprint information at an instant communication transmitting terminal
101
generating and encrypting audio and video information to obtain encrypted audio and video information at the instant communication transmitting terminal, after successful authentication of the instant communication receiving terminal
102
transmitting the encrypted audio and video information from the instant communication transmitting terminal to the instant communication receiving terminal, and receiving and decrypting the encrypted audio and video information at the instant communication receiving terminal to obtain and display the audio and video information
103

Fig. 1

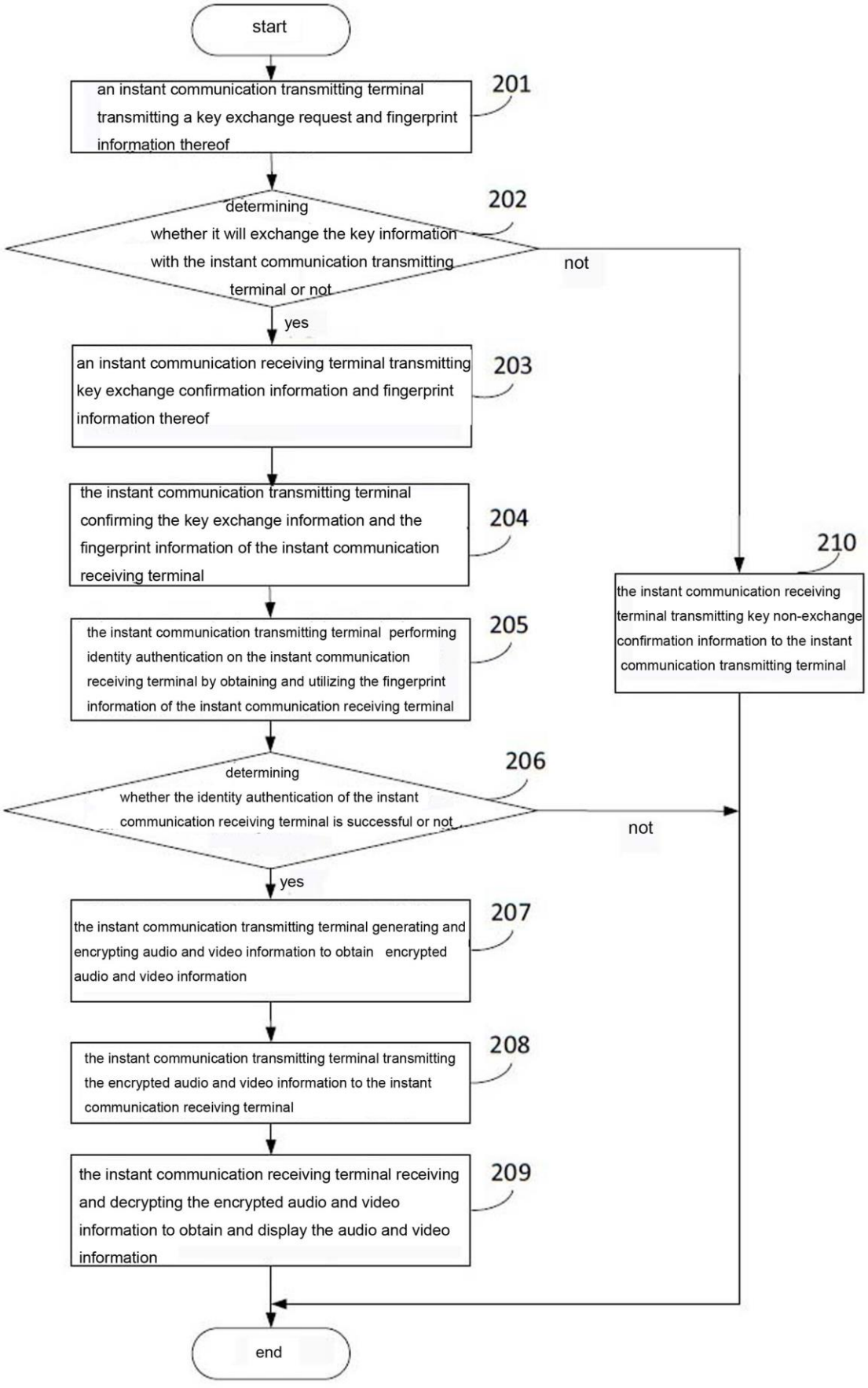
start
an instant communication transmitting terminal transmitting a key exchange request and fingerprint information thereof
201
determining whether it will exchange the key information with the instant communication transmitting terminal or not
202
not
yes
an instant communication receiving terminal transmitting key exchange confirmation information and fingerprint information thereof
203
the instant communication transmitting terminal confirming the key exchange information and the fingerprint information of the instant communication receiving terminal
204
the instant communication transmitting terminal performing identity authentication on the instant communication receiving terminal by obtaining and utilizing the fingerprint information of the instant communication receiving terminal
205
determining whether the identity authentication of the instant communication receiving terminal is successful or not
206
not
yes
the instant communication transmitting terminal generating and encrypting audio and video information to obtain encrypted audio and video information
207
the instant communication transmitting terminal transmitting the encrypted audio and video information to the instant communication receiving terminal
208
the instant communication receiving terminal receiving and decrypting the encrypted audio and video information to obtain and display the audio and video information
209
the instant communication receiving terminal transmitting key non-exchange confirmation information to the instant communication transmitting terminal
210
end

Fig. 2

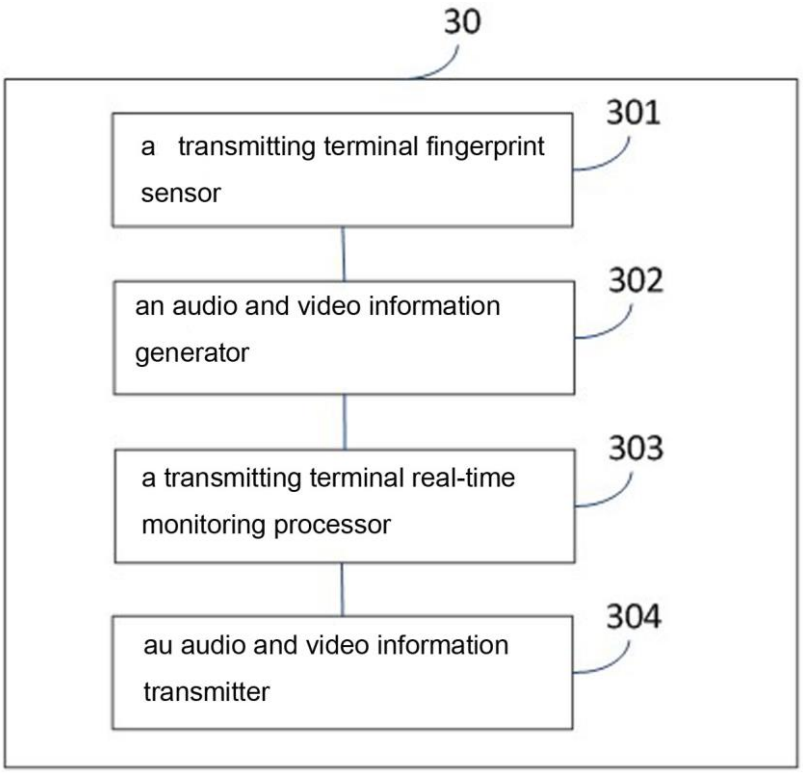
30
301
a transmitting terminal fingerprint sensor
302
an audio and video information generator
303
a transmitting terminal real-time monitoring processor
304
au audio and video information transmitter

Fig.3

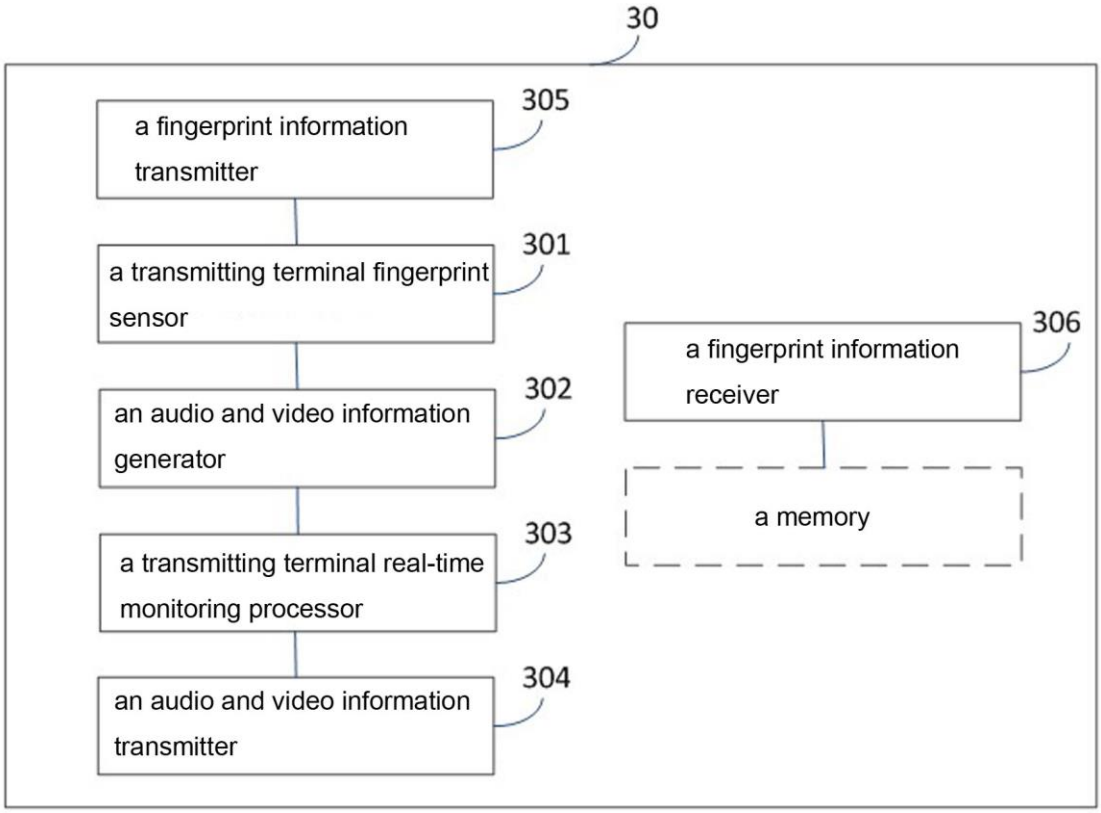
30
305
a fingerprint information transmitter
301
a transmitting terminal fingerprint sensor
302
an audio and video information generator
303
a transmitting terminal real-time monitoring processor
304
an audio and video information transmitter
306
a fingerprint information receiver
a memory

Fig. 4

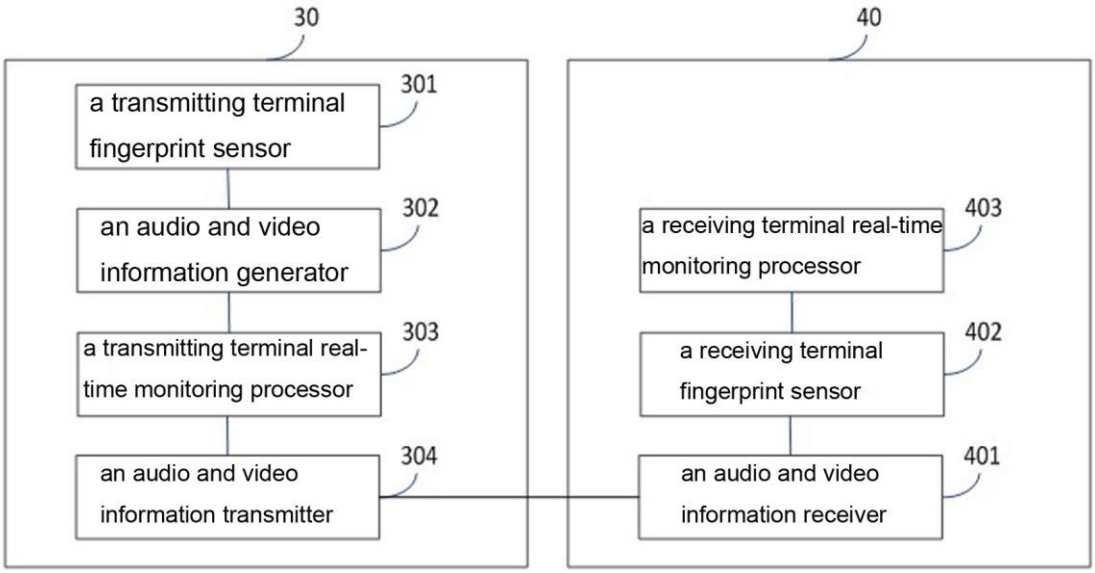
30
40
a transmitting terminal fingerprint sensor
301
an audio and video information generator
302
a transmitting terminal real-time monitoring processor
303
an audio and video information transmitter
304
a receiving terminal real-time monitoring processor
403
a receiving terminal fingerprint sensor
402
an audio and video information receiver
401

Fig. 5