

EXHIBIT A-2

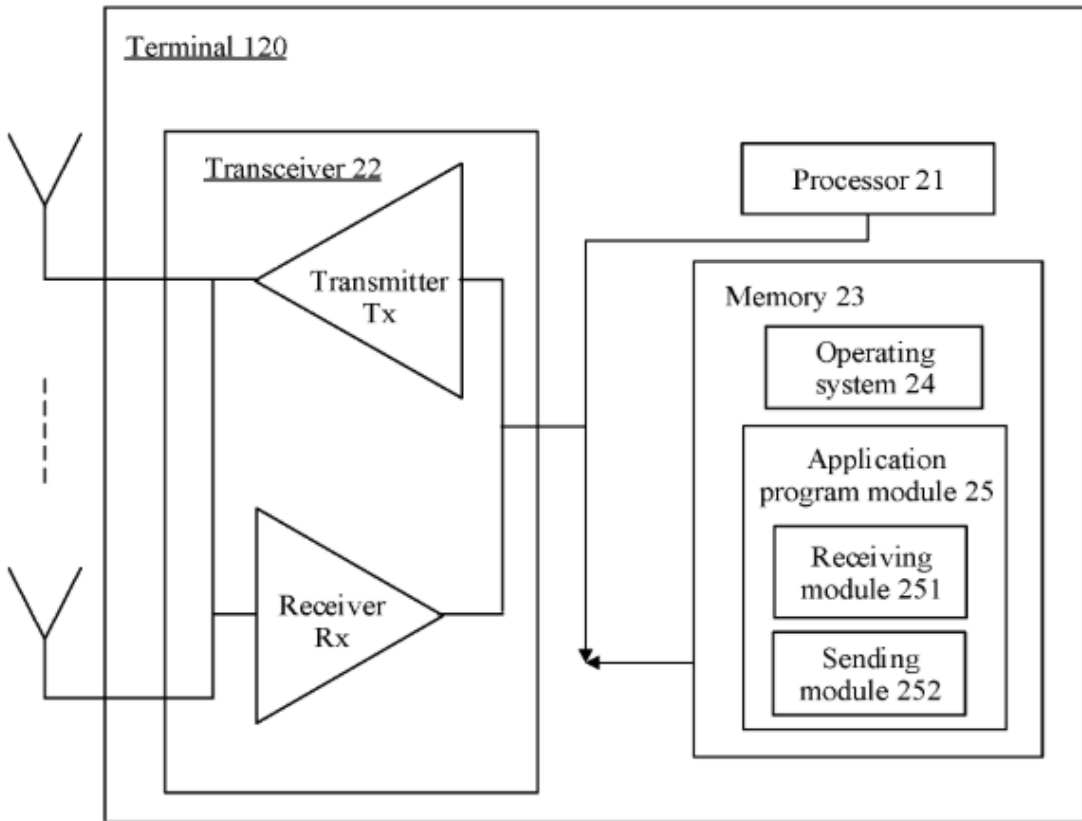
Summary of Invalidity Analysis of U.S. Patent No. 11,627,631 (“’631 Patent”) in view of U.S. Patent No. 10,966,222 to Han et al. (“Han 222”)

U.S. Patent No. 10,966,222 to Han et al. (“Han 222”) issued on March 30, 2021 and was filed on March 29, 2019. Han 222 claims priority to Chinese Application No. 201610875317.9 which was filed on September 30, 2016 (the “2016 Application”). The 2016 Application supports at least Claim 1 of Han 222. By way of example only, at least the following disclosures of the 2016 Application are sufficient to support Claim 1 of Han 222. *See, e.g.*, Translation of 2016 Application at pages 6, 10-13, 27-28, 34, 36, 38, 41-43, 50-59, 62, 69-71, 78, 84, 86-87, 89-90, 93-94, 108-109, 116, 119-120, 125, 137. Defendants reserve the right to identify any additional support. Therefore, Han 222 qualifies as prior art to the ’631 Patent under at least 35 U.S.C. § 102(a). As described in the following claim chart, at least under Pegasus’s apparent infringement theory, the asserted claims of the ’631 Patent are invalid as expressly and/or inherently anticipated by Han 222.

To the extent that Han 222 is found not to anticipate, expressly or inherently, one or more of the asserted claims of the ’631 Patent, at least under Pegasus’s apparent infringement theory, these claims are invalid as obvious in view of Han 222 in view of the background knowledge and ordinary creativity of a person having ordinary skill in the art at the time of the alleged invention, or in combination with other prior art identified in the cover pleading, herein, or as disclosed in Defendants’ Invalidity Contentions and accompanying charts and appendices. A person of ordinary skill would have been motivated to combine Han 222 and any other prior art references, including but not limited to the other prior art identified in the cover pleading or herein, with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

Defendants reserve the right to amend or supplement this invalidity chart at a later date.

1. Claim 1

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
1[pre]	A method for transmitting and receiving data, the method comprising:	To the extent the preamble is limiting, at least under Pegasus's apparent infringement theory, Han 222 discloses a method for transmitting and receiving data. For example, Han 222 discloses this limitation based on the following exemplary citations:  The diagram, labeled FIG. 2, illustrates the internal components of a terminal (120). On the left, two antenna symbols are connected to a central block labeled 'Transceiver 22'. This block contains a 'Transmitter Tx' and a 'Receiver Rx'. To the right of the transceiver is a 'Processor 21'. Below the processor is a large 'Memory 23' block. Inside the memory block, there is an 'Operating system 24' at the top, followed by an 'Application program module 25'. Within the application program module, there are two sub-modules: a 'Receiving module 251' and a 'Sending module 252'. Arrows indicate data flow: from the transceiver to the processor, and from the processor to the memory. Within the memory, arrows show data flow between the operating system, application program module, and its sub-modules. FIG. 2 Han 222 at Fig. 2.

Invalidity of U.S. Patent 11,627,631 in view of Han 222

Claim Language

Exemplary Citations to Han 222

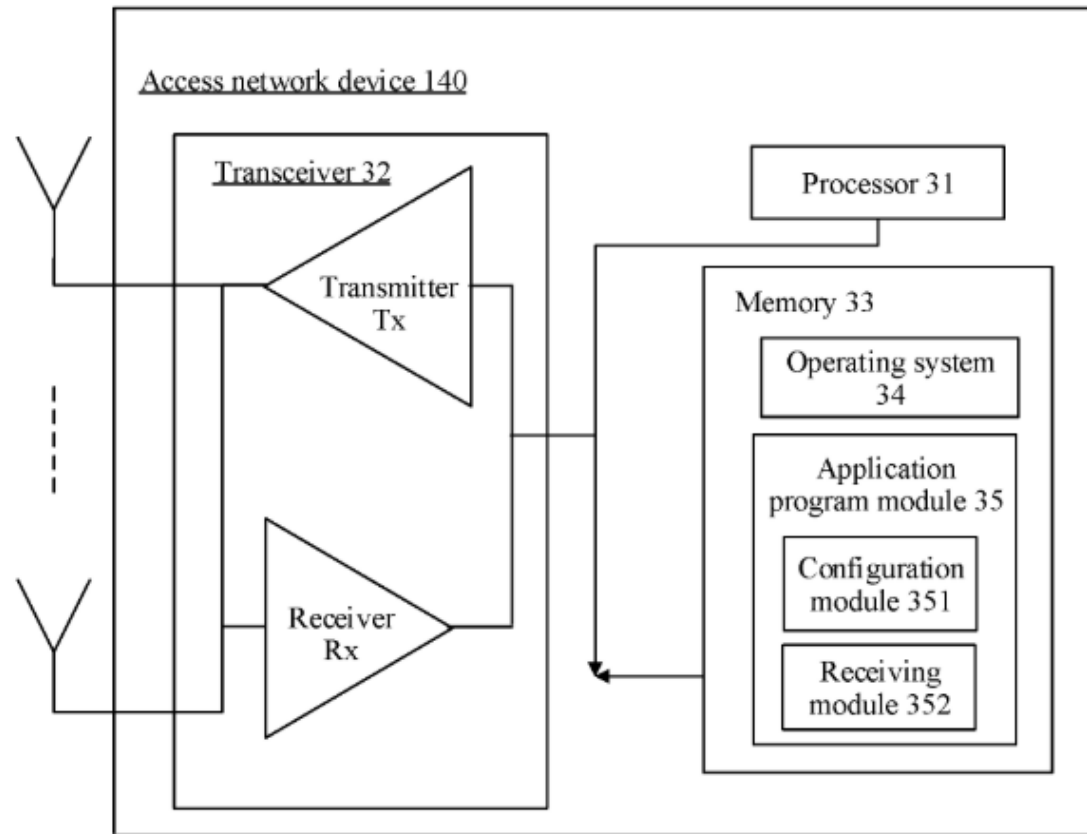
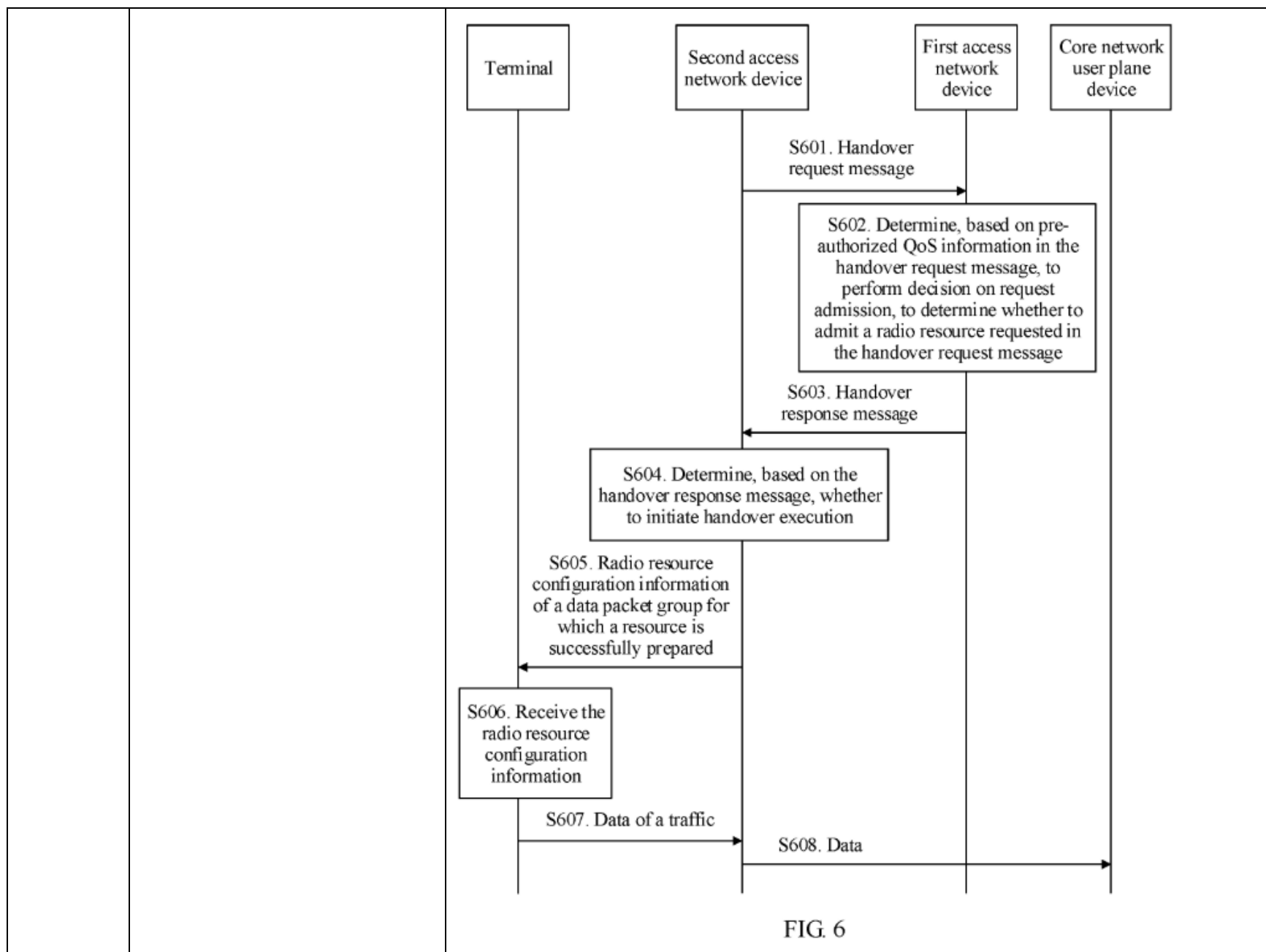


FIG. 3

Han 222 at Fig. 3.



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 11, 50, 53, 84, 120. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
1[a]	deciding, by a source base station (BS), whether to perform a handover;	At least under Pegasus's apparent infringement theory, Han 222 discloses deciding, by a source base station (BS), whether to perform a handover. For example, Han 222 discloses this limitation based on the following exemplary citations:

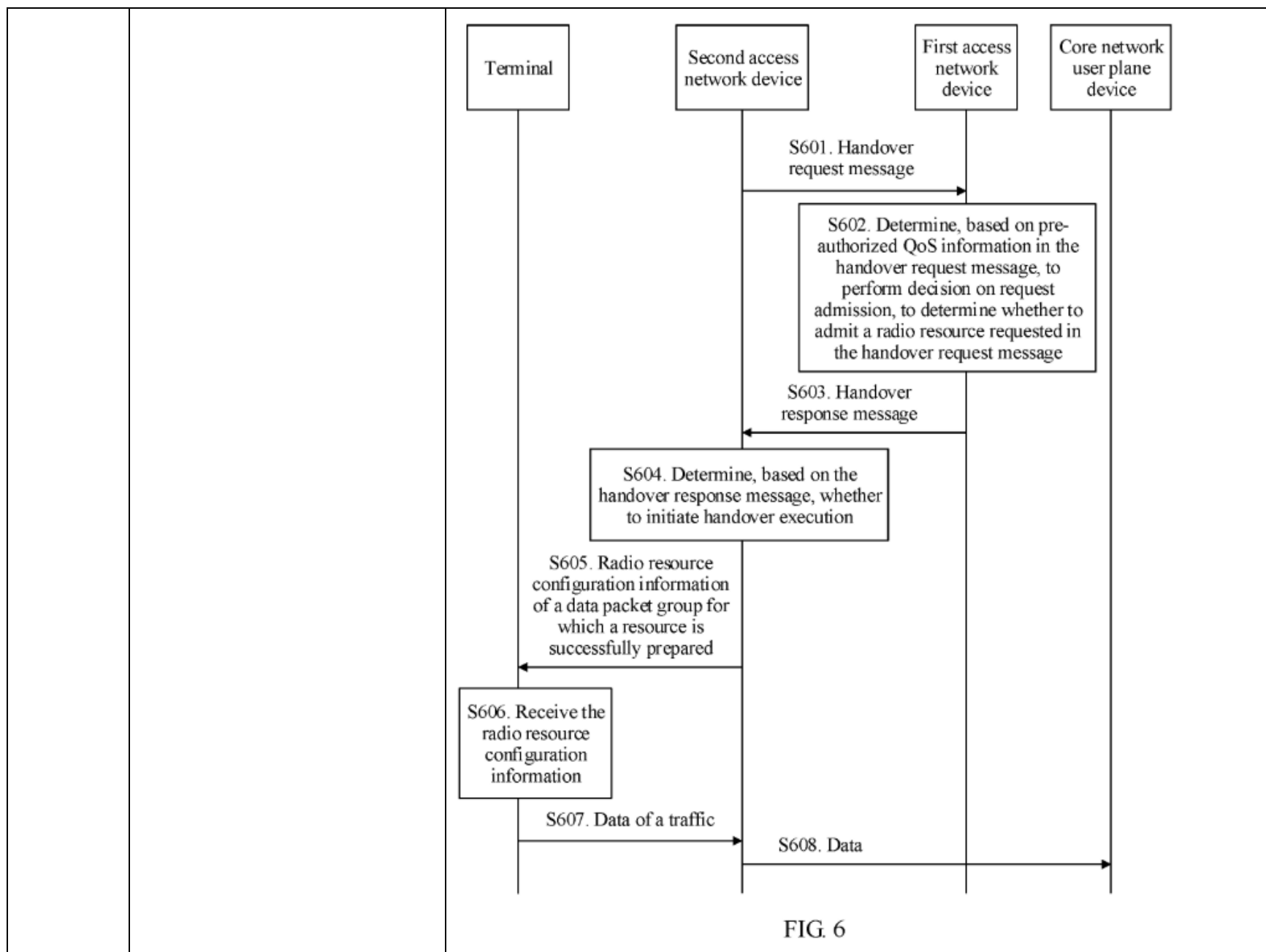
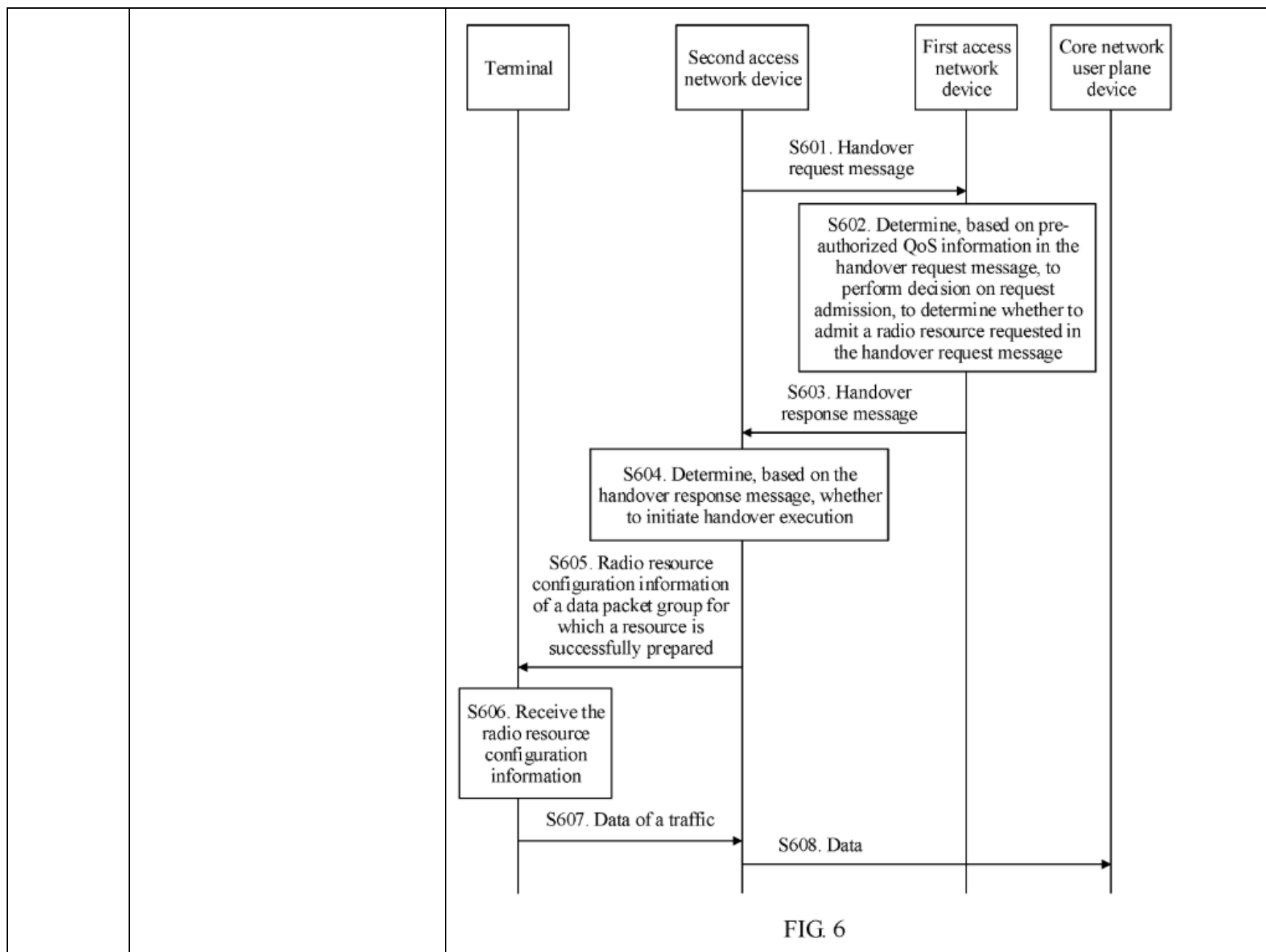


FIG. 6

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “A second access network device sends a handover request message to a first access network device.” Han 222 at 30:17-18. “The second access network device may also be referred to as a source-side access network device, and the first access network device may also be referred to as a target-side access network device. A handover process message between the first access network device and the second access network device may be sent and received through a direct interface between the first access network device and the second access network device (a handover process between peer entities), or may be forwarded by a third party, for example, by a core network control plane device (a handover process performed by using a core network).” Han 222 at 30:19-29. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 11-12, 27-28. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
1[b]	transmitting, from the source BS to a target BS, a handover request message when it is	At least under Pegasus’s apparent infringement theory, Han 222 discloses transmitting, from the source BS to a target BS, a handover request message when it is decided to perform the handover. For example, Han 222 discloses this limitation based on the following exemplary citations:

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
	decided to perform the handover,	



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “A second access network device sends a handover request message to a first access network device.” Han 222 at 30:17-18. “The second access network device may also be referred to as a source-side access network device, and the first access network device may also be referred to as a target-side access network device. A handover process message between the first access network device and the second access network device may be sent and received through a direct interface between the first access network device and the second access network device (a handover process between peer entities), or may be forwarded by a third party, for example, by a core network control plane device (a handover process performed by using a core network).” Han 222 at 30:19-29. “The handover request message includes pre-authorized QoS information. The pre-authorized QoS information in the handover request message may include a part or all of the second pre-authorized QoS information in the embodiment shown in FIG. 5, for example, may include only the QoS parameter identifier in step S501 and a QoS parameter corresponding to the QoS parameter identifier; or may include the QoS parameter identifier, the QoS parameter corresponding to the QoS parameter identifier, and the packet filter corresponding to the QoS parameter; or may further include the first indication information.” Han 222 at 30:30-40. “During implementation, the core network control plane device may update the pre-authorized QoS information by using a handover process, for example, update some or all information in the pre-authorized QoS information by using the handover request message, and send updated pre-authorized QoS information to the target-side access network device and/or a terminal. The terminal and the target-side access network device receive the updated pre-authorized QoS information, and update the locally stored pre-authorized QoS information. The terminal obtains the updated pre-

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		authorized QoS information by using an air interface message in the handover process.” Han 222 at 30:41-52. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 11-12, 27-28, 86-87, 90, 137. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
1[c]	wherein the handover request message includes network slice information; and	At least under Pegasus’s apparent infringement theory, Han 222 discloses wherein the handover request message includes network slice information. For example, Han 222 discloses this limitation based on the following exemplary citations:

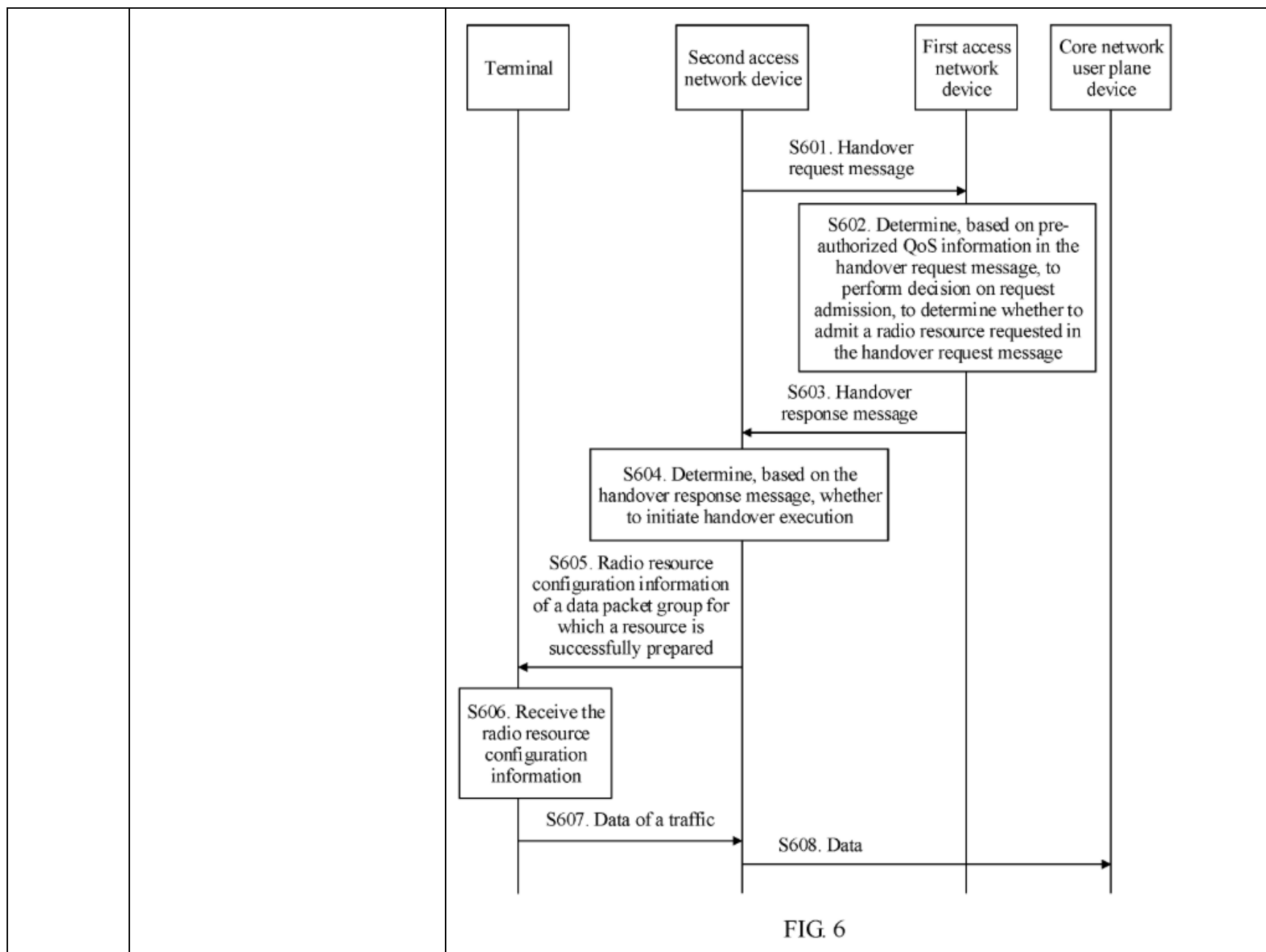
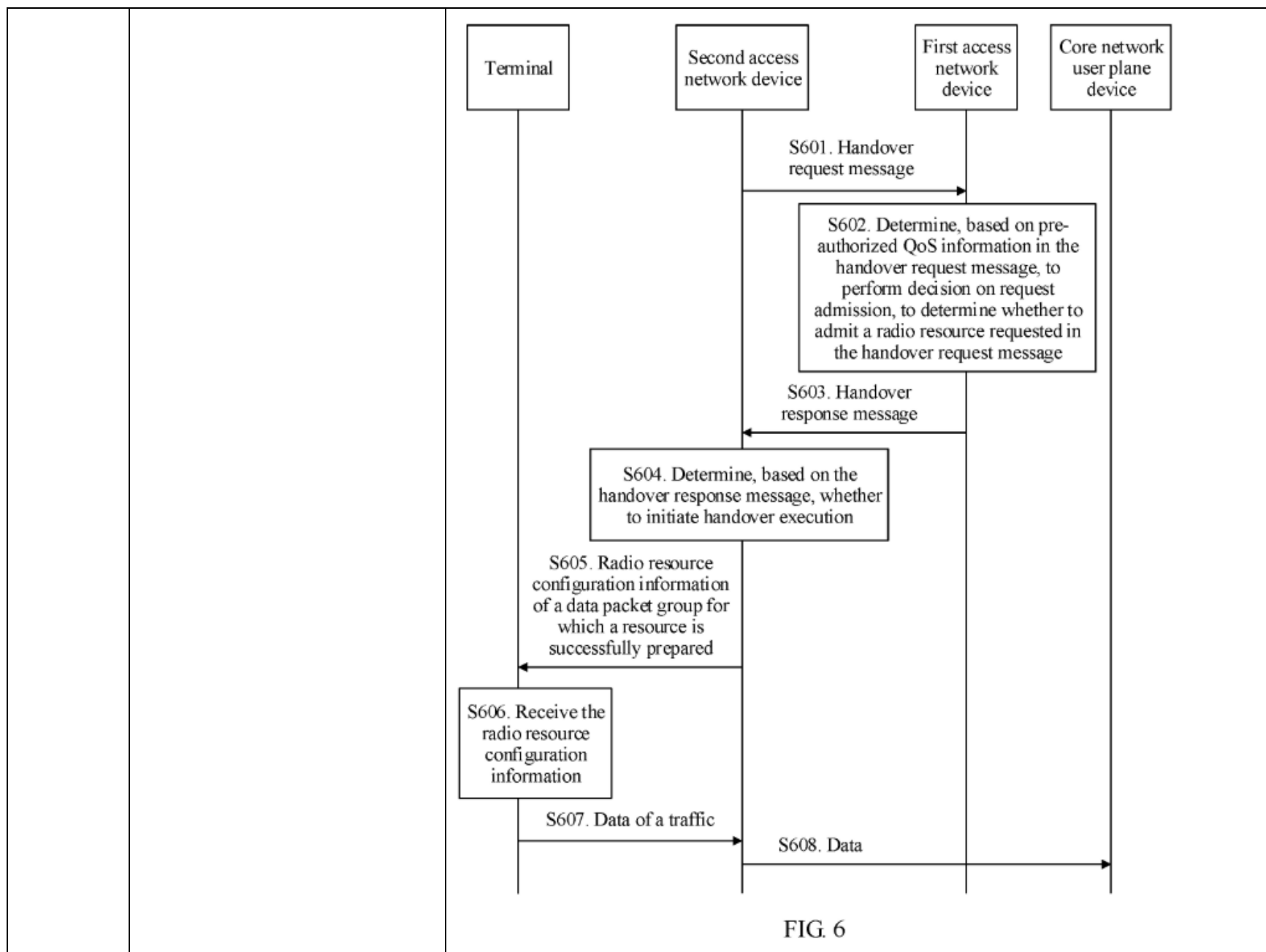


FIG. 6

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “The handover request message includes pre-authorized QoS information. The pre-authorized QoS information in the handover request message may include a part or all of the second pre-authorized QoS information in the embodiment shown in FIG. 5, for example, may include only the QoS parameter identifier in step S501 and a QoS parameter corresponding to the QoS parameter identifier; or may include the QoS parameter identifier, the QoS parameter corresponding to the QoS parameter identifier, and the packet filter corresponding to the QoS parameter; or may further include the first indication information.” Han 222 at 30:30-40. “During implementation, the core network control plane device may update the pre-authorized QoS information by using a handover process, for example, update some or all information in the pre-authorized QoS information by using the handover request message, and send updated pre-authorized QoS information to the target-side access network device and/or a terminal. The terminal and the target-side access network device receive the updated pre-authorized QoS information, and update the locally stored pre-authorized QoS information. The terminal obtains the updated pre-authorized QoS information by using an air interface message in the handover process.” Han 222 at 30:41-52. “Optionally, the first pre-authorized QoS information may further include: identification information of network slice (English: slice) of a data packet group, where the identification information of the slice includes at least one of the following: a slice ID, a slice type, a tenant type, a tenant identifier, a network function identifier, and the like.” Han 222 at 21:21-26. “Optionally, the second pre-authorized QoS information may further include aggregated QoS information, where the aggregated QoS information is used to indicate an overall QoS requirement of a plurality of data packet groups. For example, the second pre-authorized QoS information may further include a maximum

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		aggregate rate of a plurality of data packet groups, where the maximum aggregate rate indicates a maximum transmission rate of the plurality of data packet groups. During implementation, the plurality of data packet groups may belong to a same traffic, and further, the traffic may be a non-guaranteed bit rate traffic. Alternatively, the plurality of data packet groups may belong to a same network slice (English: slice). Further, a maximum aggregate rate of the plurality of data packet groups may be a maximum aggregate rate of data packet groups of all non-GBR traffics of the slice, for example, a network slice-aggregate maximum bit rate (English: slice-Aggregate Maximum Bit Rate, slice-AMBR for short). The network slice is a logical network function combination that supports a communication service requirement in a particular case. The network slice uses a logical resource rather than a physical resource, and helps an operator provide a service-based network architecture.” Han 222 at 22:42-64. “In a feasible design, the quality of service information further includes at least one of PDU session information and identification information of network slice of the traffic.” Han 222 at 13:19-21. “The first access network device receives the handover request message, and determines, based on pre-authorized QoS information in the handover request message, to perform judgment on request admission, to determine whether to admit a radio resource requested in the handover request message.” Han 222 at 31:42-47. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 6, 10, 59, 62, 69-71, 93-94, 119. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
1[d]	receiving, by the source BS from the target BS, a handover request confirmation message in response to the handover request message,	At least under Pegasus's apparent infringement theory, Han 222 discloses receiving, by the source BS from the target BS, a handover request confirmation message in response to the handover request message. For example, Han 222 discloses this limitation based on the following exemplary citations:



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “The first access network device sends a handover response message to the second access network device, where the handover response message may be a handover preparation failure message or a handover preparation success message.” Han 222 at 32:8-12. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 12, 28, 89, 137. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
1[e]	wherein, if one or more protocol data unit (PDU) sessions are associated with one or more network slices that are not supported by the target BS, the handover request confirmation message includes information for indicating a rejection of the one or more PDU sessions by the target BS.	At least under Pegasus’s apparent infringement theory, Han 222 discloses wherein, if one or more protocol data unit (PDU) sessions are associated with one or more network slices that are not supported by the target BS, the handover request confirmation message includes information for indicating a rejection of the one or more PDU sessions by the target BS. For example, Han 222 discloses this limitation based on the following exemplary citations:

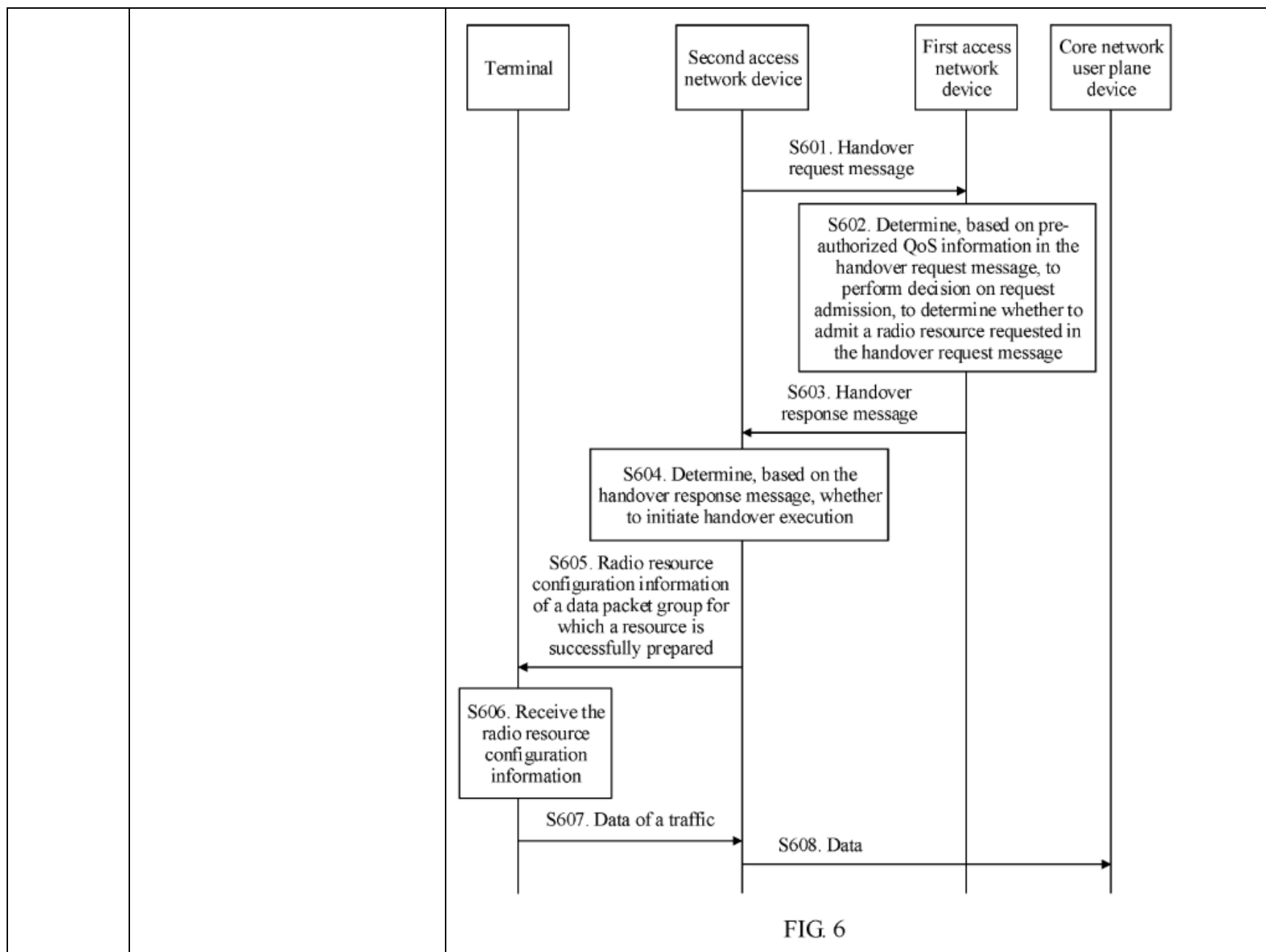


FIG. 6

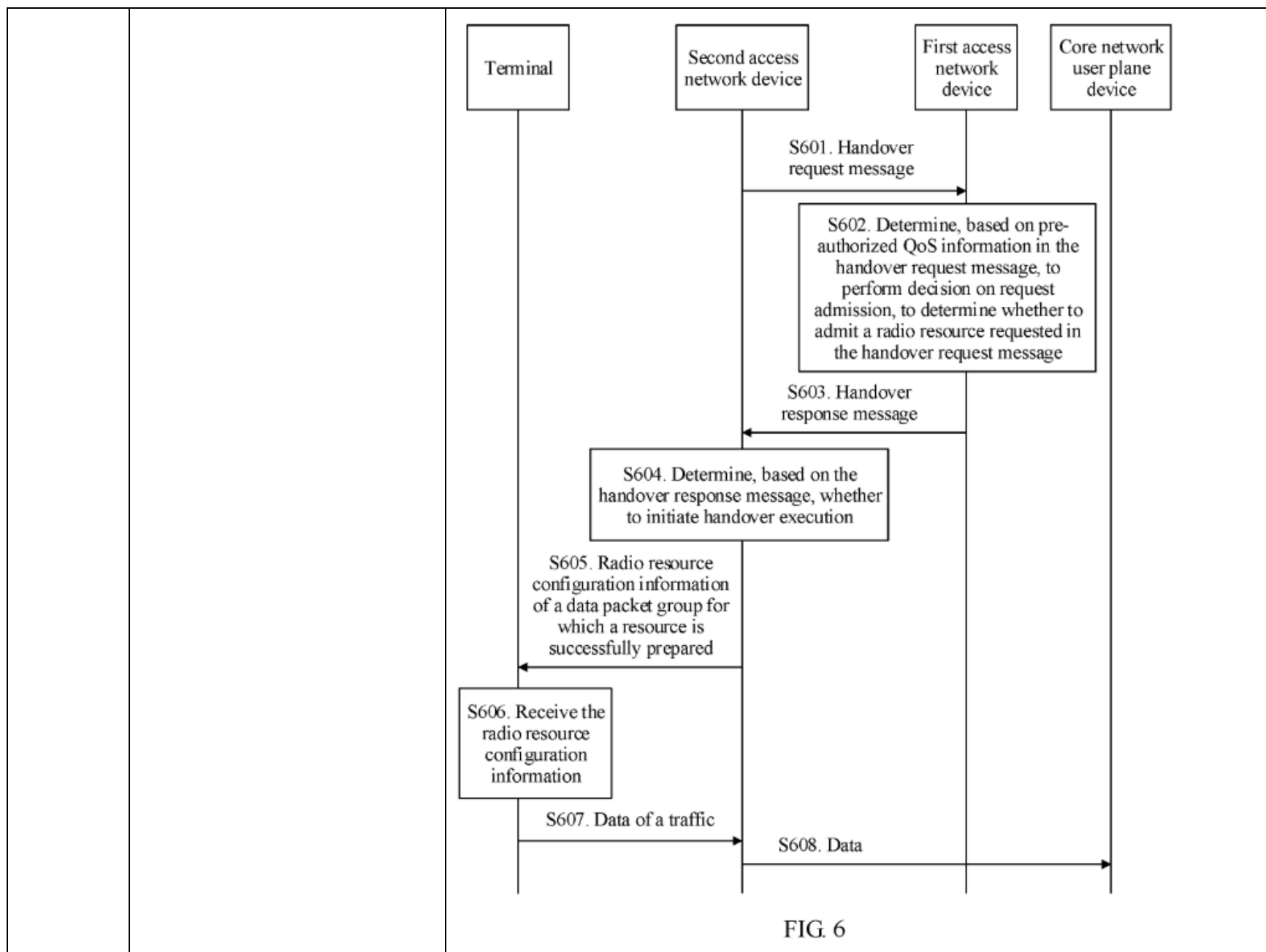
Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “Specifically, the first access network device may use one or more pieces of the following information as an input of an admission judgment algorithm, to perform judgment on request admission: a QoS parameter corresponding to each data packet group in the pre-authorized QoS information, whether a radio resource has been configured for a data packet group corresponding to the QoS parameter, whether data of the data packet group corresponding to the QoS parameter has been sent, and whether the data of the data packet group corresponding to the QoS parameter is being transmitted.” Han 222 at 31:54-64. “The first access network device sends a handover response message to the second access network device, where the handover response message may be a handover preparation failure message or a handover preparation success message.” Han 222 at 32:8-12. “Specifically, when determining that none of resources requested in the handover request message is admitted, the first access network device sends the handover preparation failure message, where the handover preparation failure message is used to indicate that none of the resources requested in the handover request message is admitted; or when determining that all or some resources requested in the handover request message are admitted, the first access network device sends a handover preparation success message. That some of the resources requested in the handover request message are not admitted may include that some data packet groups in the pre-authorized QoS information for which radio bearers need to be pre-established are not admitted by the first access network device.” Han 222 at 32:13-26. “Further, the handover preparation failure message may further carry a handover failure cause. A failure cause may be provided for each data packet group of the

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		handover request. The failure cause includes but is not limited to: there is no available radio resource, pre-establishment of a radio bearer with pre-authorized QoS is not supported, a QoS parameter is not supported, a geographic area is not supported, and the like. That a geographic area is not supported is that the traffic is not supported in a target cell of the target access network device, for example, some traffics are effective only in a particular geographic area. That a QoS parameter is not supported is that a traffic corresponding to the QoS parameter cannot be supported in the target access network device.” Han 222 at 32:27-40. “Further, the handover preparation success message may further carry a handover failure cause. Still further, a failure cause may be provided for each data packet group for which a resource is unsuccessfully prepared. For example, a list is carried, where the list includes an identifier of a data packet group for which a resource is unsuccessfully prepared and a corresponding failure cause. The failure cause includes but is not limited to: there is no available radio resource, pre-establishment of a radio bearer with pre-authorized QoS is not supported, a QoS parameter is not supported, a geographic area is not supported, and the like. That a geographic area is not supported is that the traffic is not supported in a target cell of the target access network device, for example, some traffics are effective only in a particular geographic area. That a QoS parameter is not supported is that a traffic corresponding to the QoS parameter cannot be supported in the target access network device.” Han 222 at 32:41-57. “The second access network device receives the handover response message, and determines, based on the handover response message, whether to initiate handover execution.” Han 222 at 32:62-65. “In a feasible design, the quality of service information further includes at least one of PDU session information and identification information of network slice of the traffic.” Han 222 at 13:19-21.

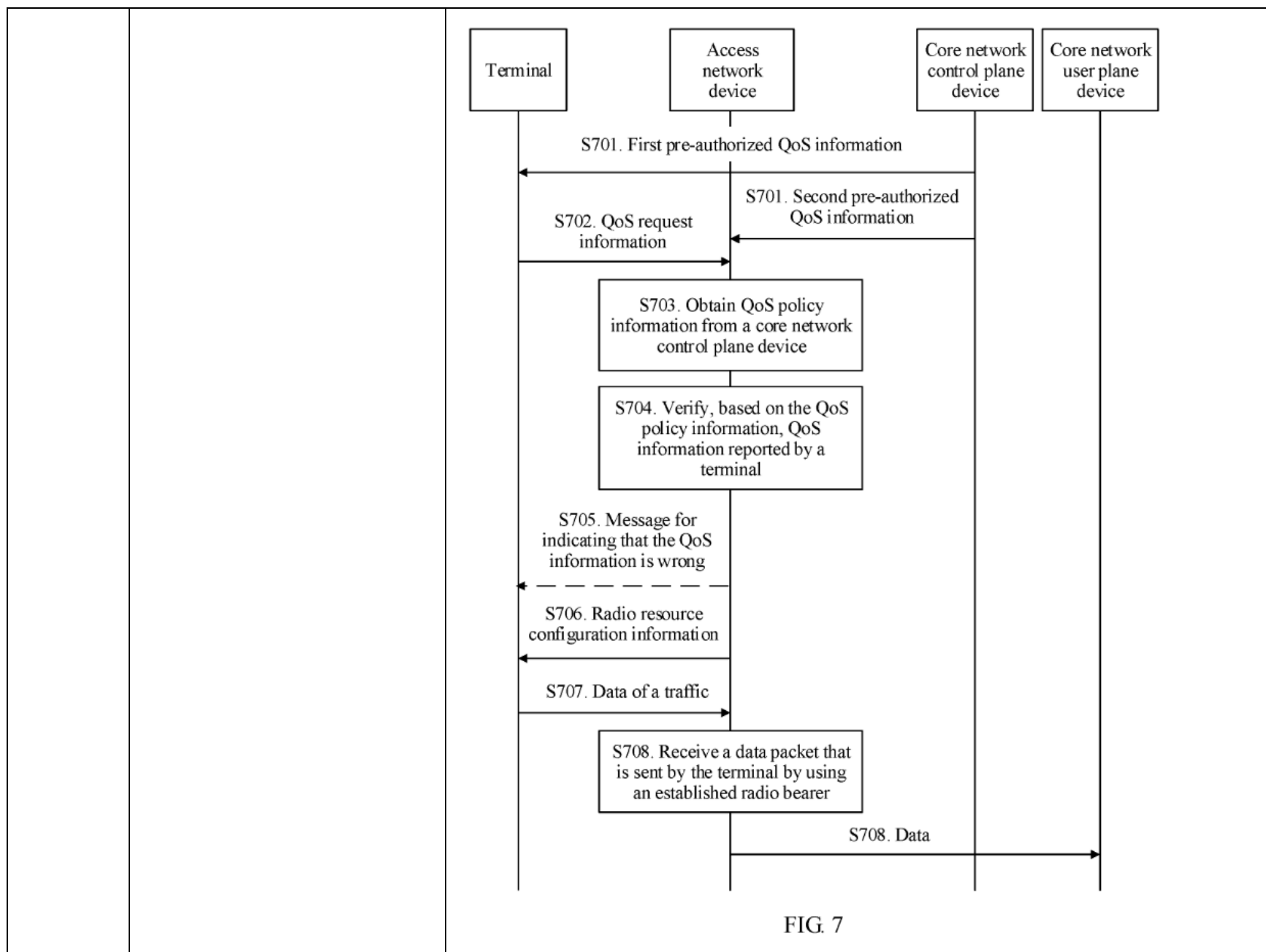
Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		“The first access network device receives the handover request message, and determines, based on pre-authorized QoS information in the handover request message, to perform judgment on request admission, to determine whether to admit a radio resource requested in the handover request message.” Han 222 at 31:42-47. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 78, 86, 87, 116. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

2. Claim 2

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
2	The method according to claim 1, further comprising: receiving, by the source BS from a user equipment (UE), a non-access stratum (NAS) message including network slice request information.	At least under Pegasus’s apparent infringement theory, Han 222 discloses receiving, by the source BS from a user equipment (UE), a non-access stratum (NAS) message including network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations:



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6.



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 7. “Optionally, the timer is set by the core network control plane device, the timer is carried in the first pre-authorized QoS information and is sent to the terminal (for example, is sent to the terminal by using a non-access stratum (NAS) message); or the timer is set by the access network device, and the timer is sent to the terminal by using a radio resource control RRC message or a user plane control protocol data unit PDU.” Han 222 at 9:13-20. “In another implementation, the core network control plane device sends the second authorized QoS information to the first access network device by using an AS message, and the core network control plane device sends the first authorized QoS information to the terminal by using a non-access stratum (English: Non-Access Stratum, NAS for short) message, as shown in FIG. 5.” Han 222 at 20:33-40. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 34, 36, 38, 58, 108-109. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

3. Claim 3

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
3	The method according to claim 2, further comprising: receiving, by the source BS from a core network entity, the network slice information, wherein the network slice information is configured by the network slice request information.	At least under Pegasus's apparent infringement theory, Han 222 discloses receiving, by the source BS from a core network entity, the network slice information, wherein the network slice information is configured by the network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations:

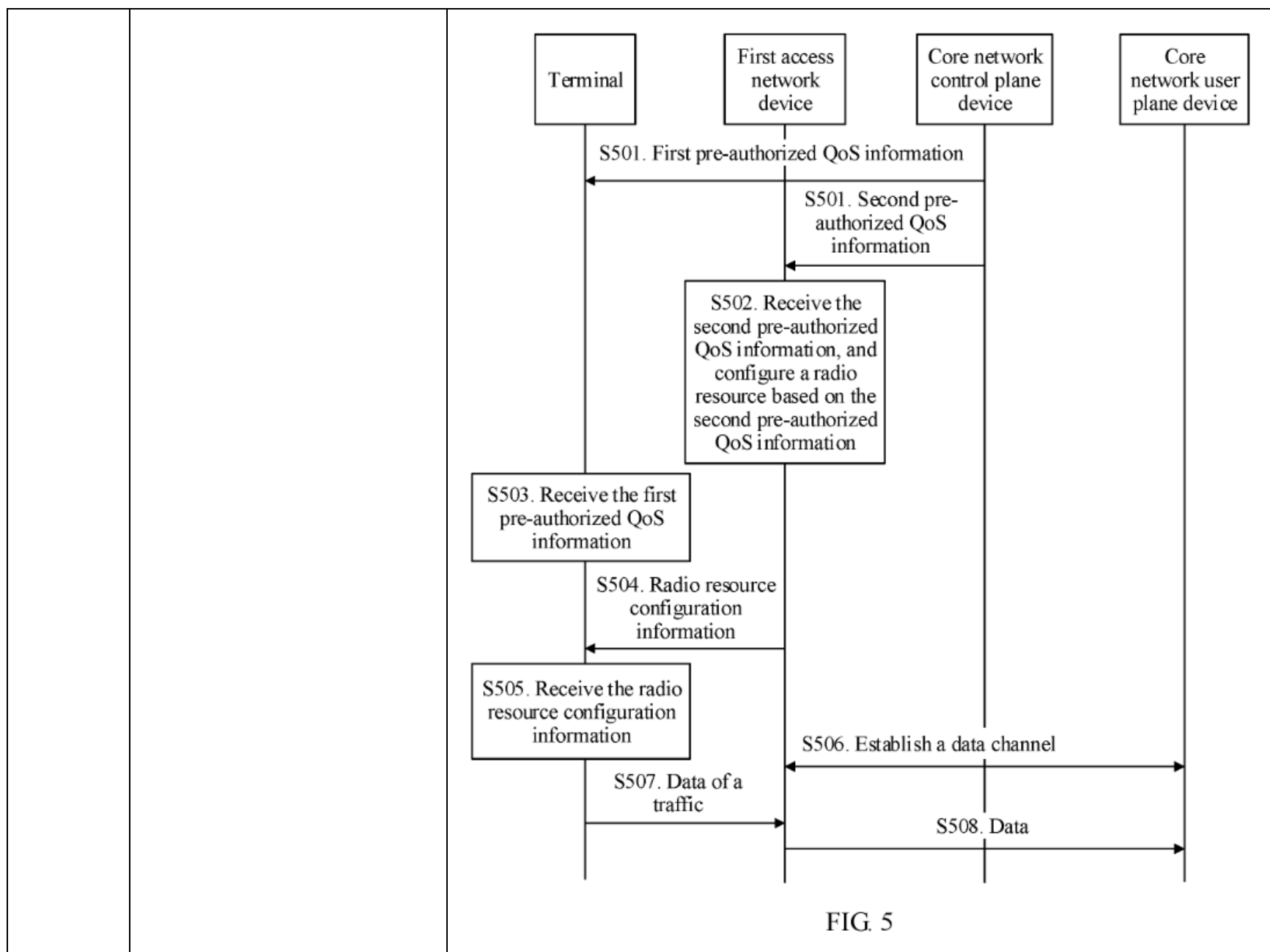
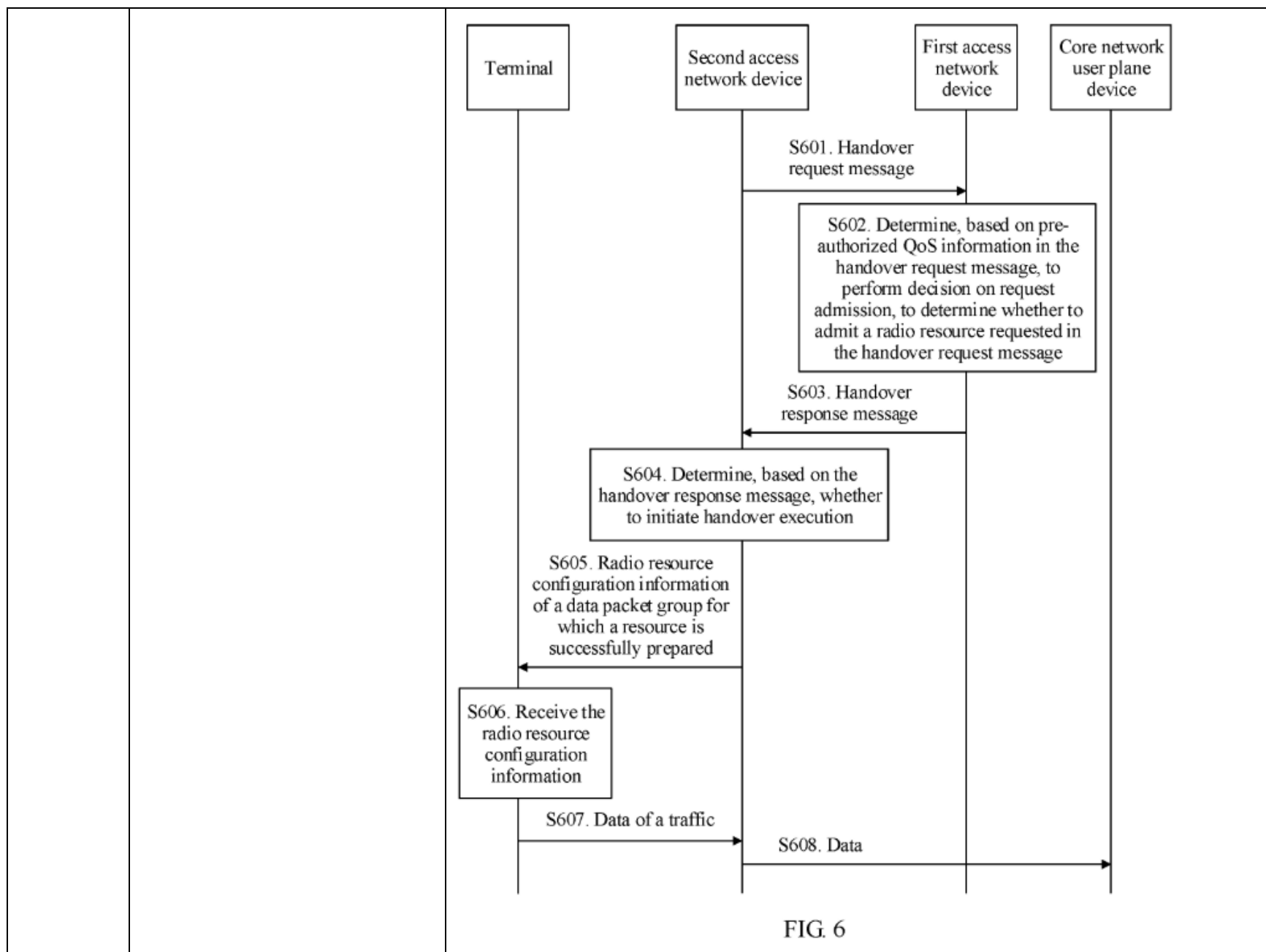


FIG. 5

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 5.

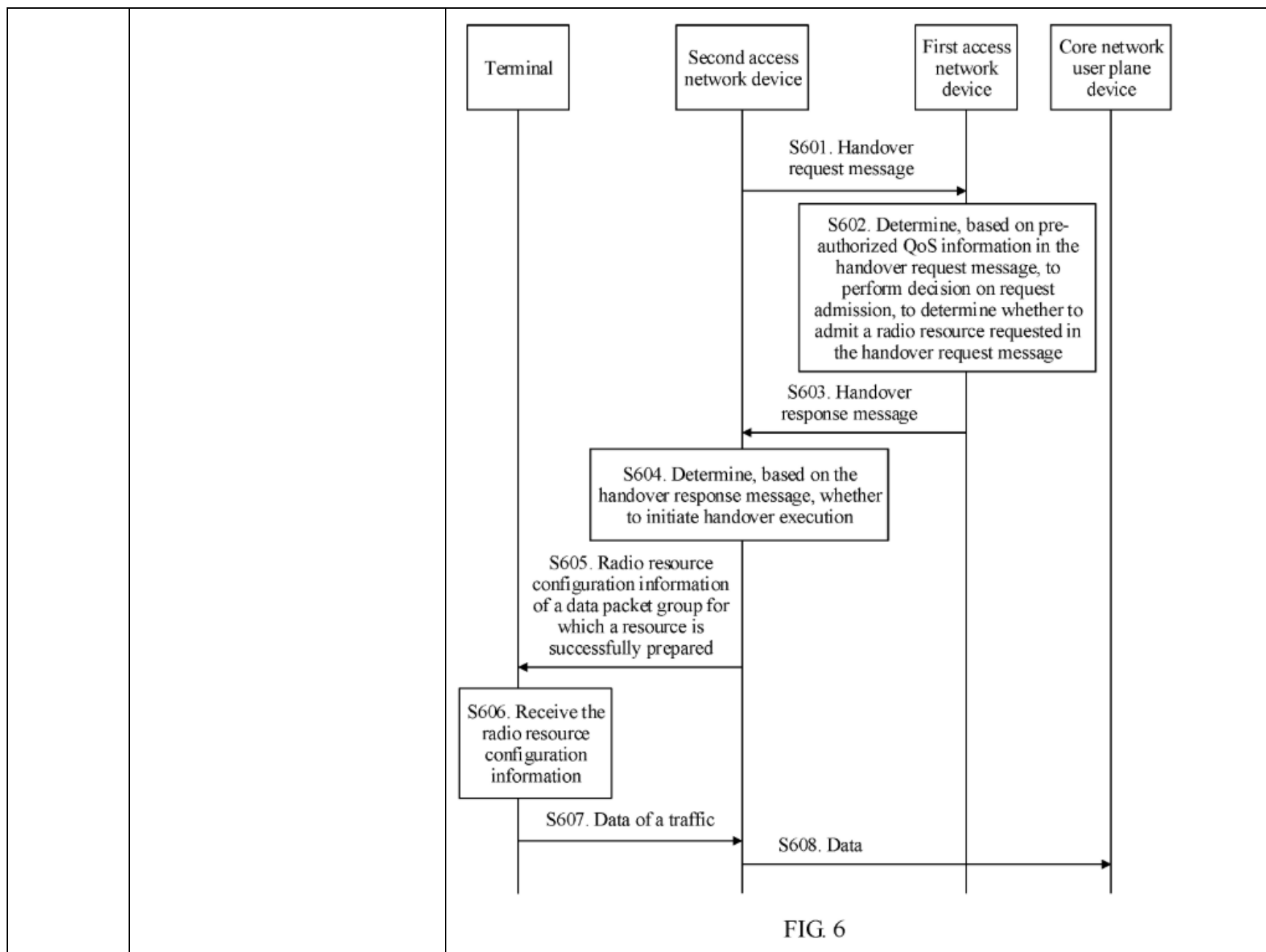


Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “The first QoS information includes at least one of first pre-authorized QoS information and reflective characteristic information, and the reflective characteristic information includes a downlink QoS parameter of the traffic and indication information that is used to indicate a capability of obtaining an uplink QoS parameter based on the downlink QoS parameter of the traffic. In this embodiment of the present invention, the pre-authorized QoS information (including the first pre-authorized QoS information and second pre-authorized QoS information in the following specification) is proactively configured by the core network control plane device for the terminal based on subscription information of the terminal or based on a common traffic (such as email or Taobao).” Han 222 at 2:48-61. “A core network control plane device sends first pre-authorized QoS information to a terminal, and sends second pre-authorized QoS information to a first access network device.” Han 222 at 20:13-16. “The core network control plane device may configure the pre-authorized QoS information (including the first pre-authorized QoS information and the second pre-authorized QoS information) for the terminal based on subscription information (for example, subscription information of the terminal obtained from a home subscriber server (English: Home Subscriber Server, HSS for short)) of the terminal. In addition, the core network control plane device may further configure the pre-authorized QoS information for the terminal based on a common traffic (such as email or Taobao). The two cases may be combined.” Han 222 at 20:17-27. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 6, 10, 59, 62, 69-71, 93-94, 119. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not

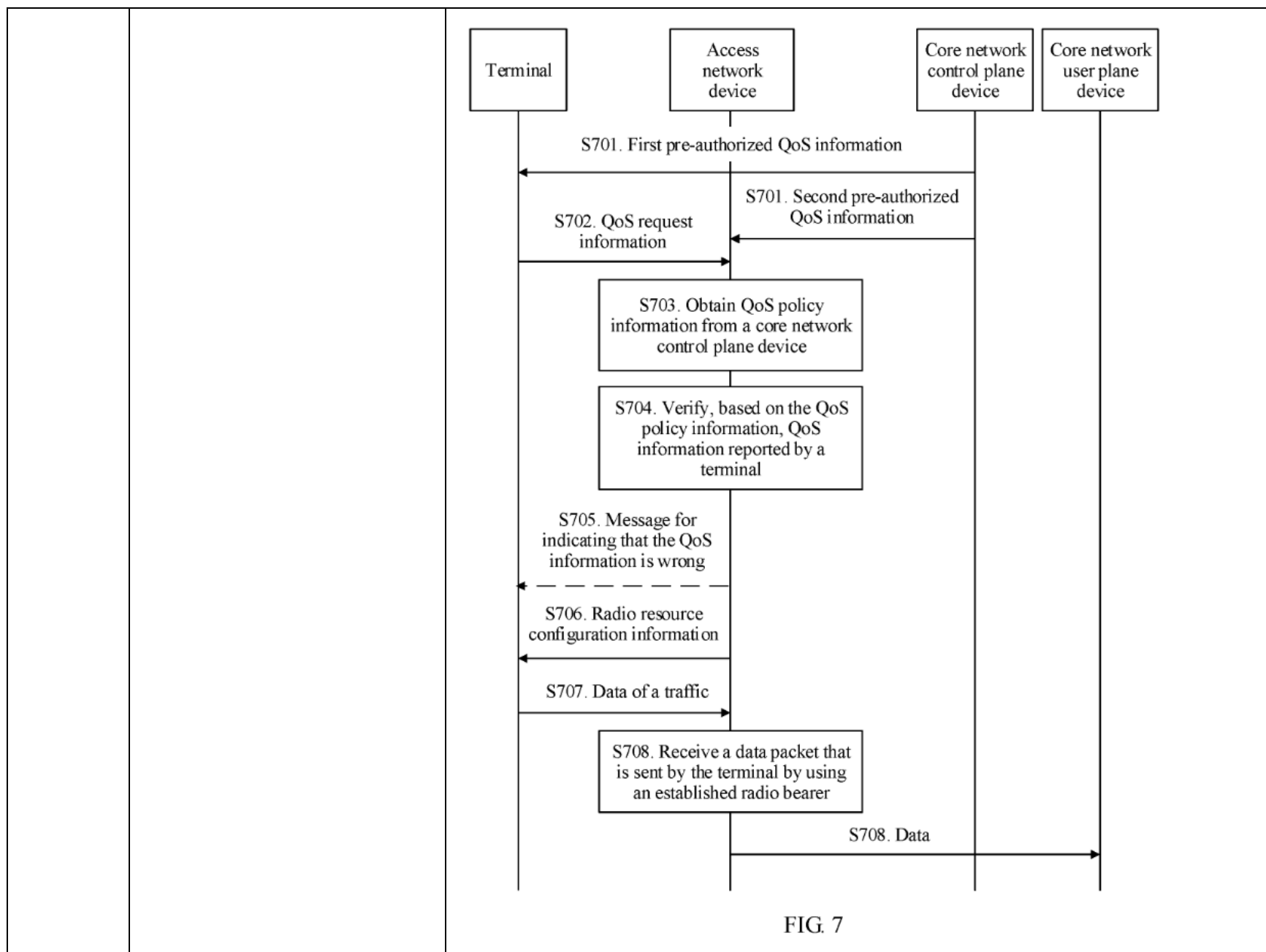
Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

4. Claim 4

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
4	The method according to claim 2, wherein the NAS message including the network slice request information is included in a radio resource control (RRC) connection setup completion message.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the NAS message including the network slice request information is included in a radio resource control (RRC) connection setup completion message. For example, Han 222 discloses this limitation based on the following exemplary citations:



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6.



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 7. “Optionally, the timer is set by the core network control plane device, the timer is carried in the first pre-authorized QoS information and is sent to the terminal (for example, is sent to the terminal by using a non-access stratum (NAS) message); or the timer is set by the access network device, and the timer is sent to the terminal by using a radio resource control RRC message or a user plane control protocol data unit PDU.” Han 222 at 9:13-20. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 34, 36, 38, 58, 108-109. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

5. Claim 5

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
5	The method according to claim 3, wherein the network slice information is configured by	At least under Pegasus’s apparent infringement theory, Han 222 discloses receiving, by the source BS from a core network entity, the network slice information, wherein the network slice information is configured by the core network entity based on the

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
	the core network entity based on the network slice request information.	network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations:

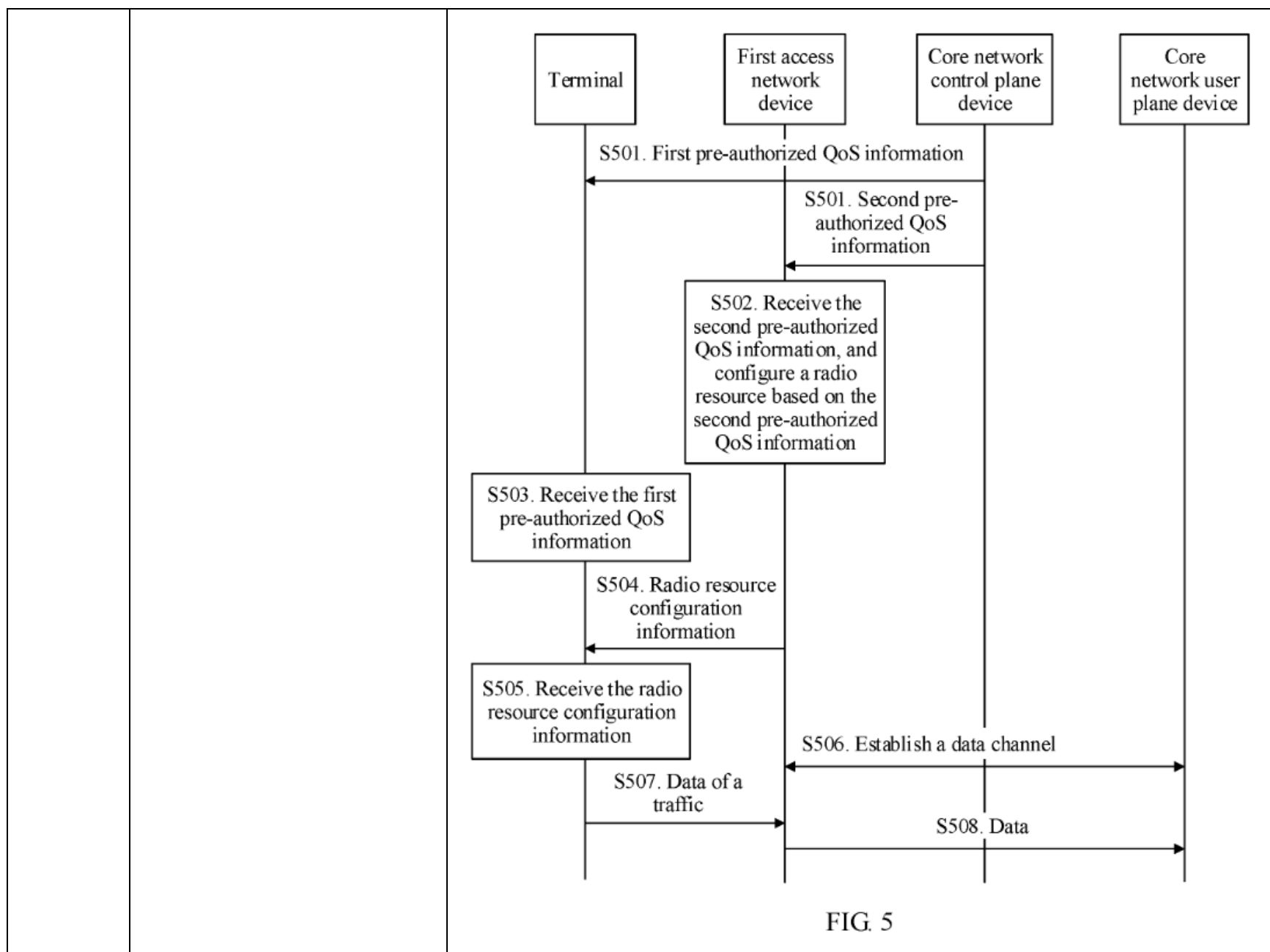
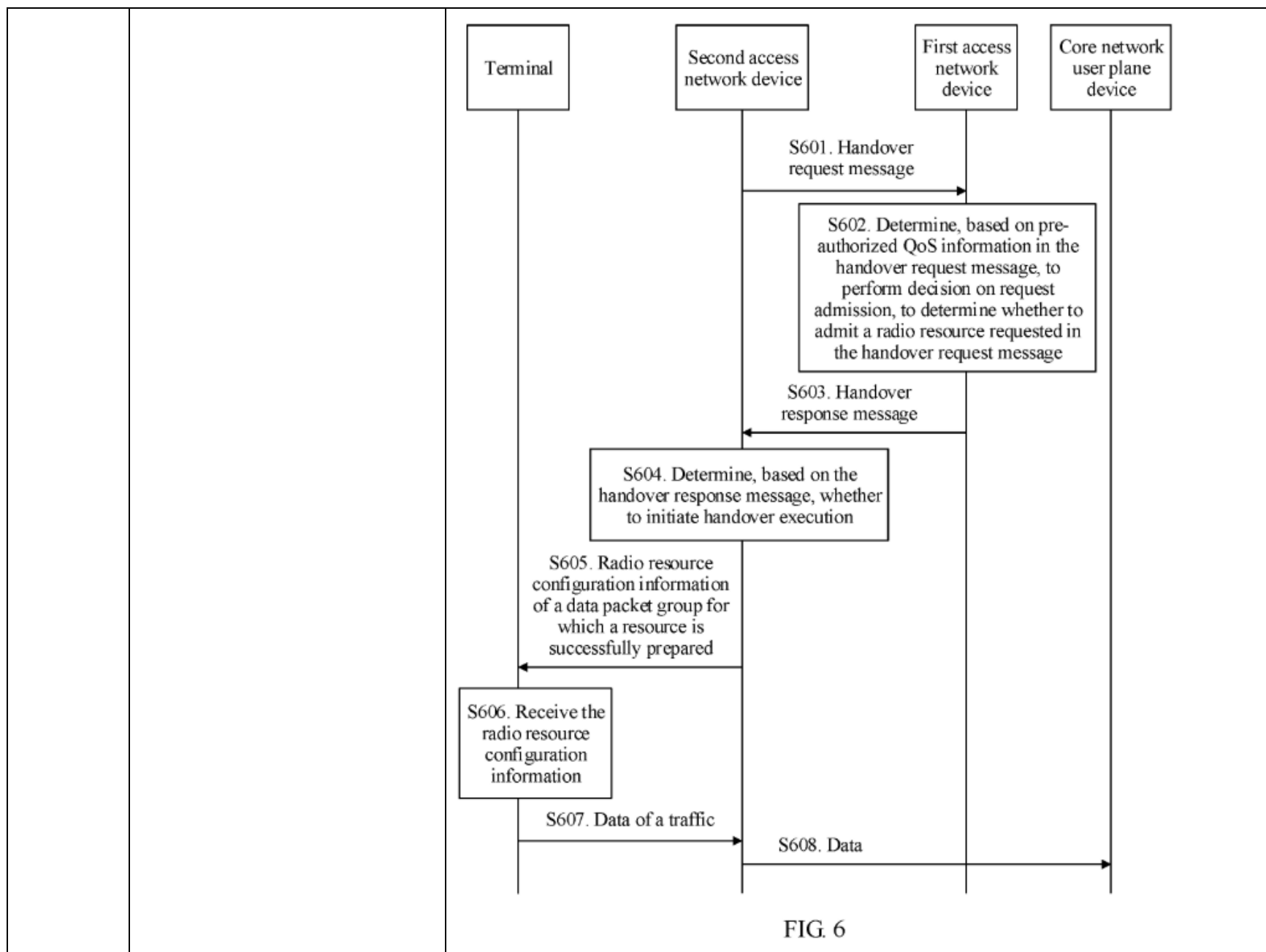


FIG. 5

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 5.

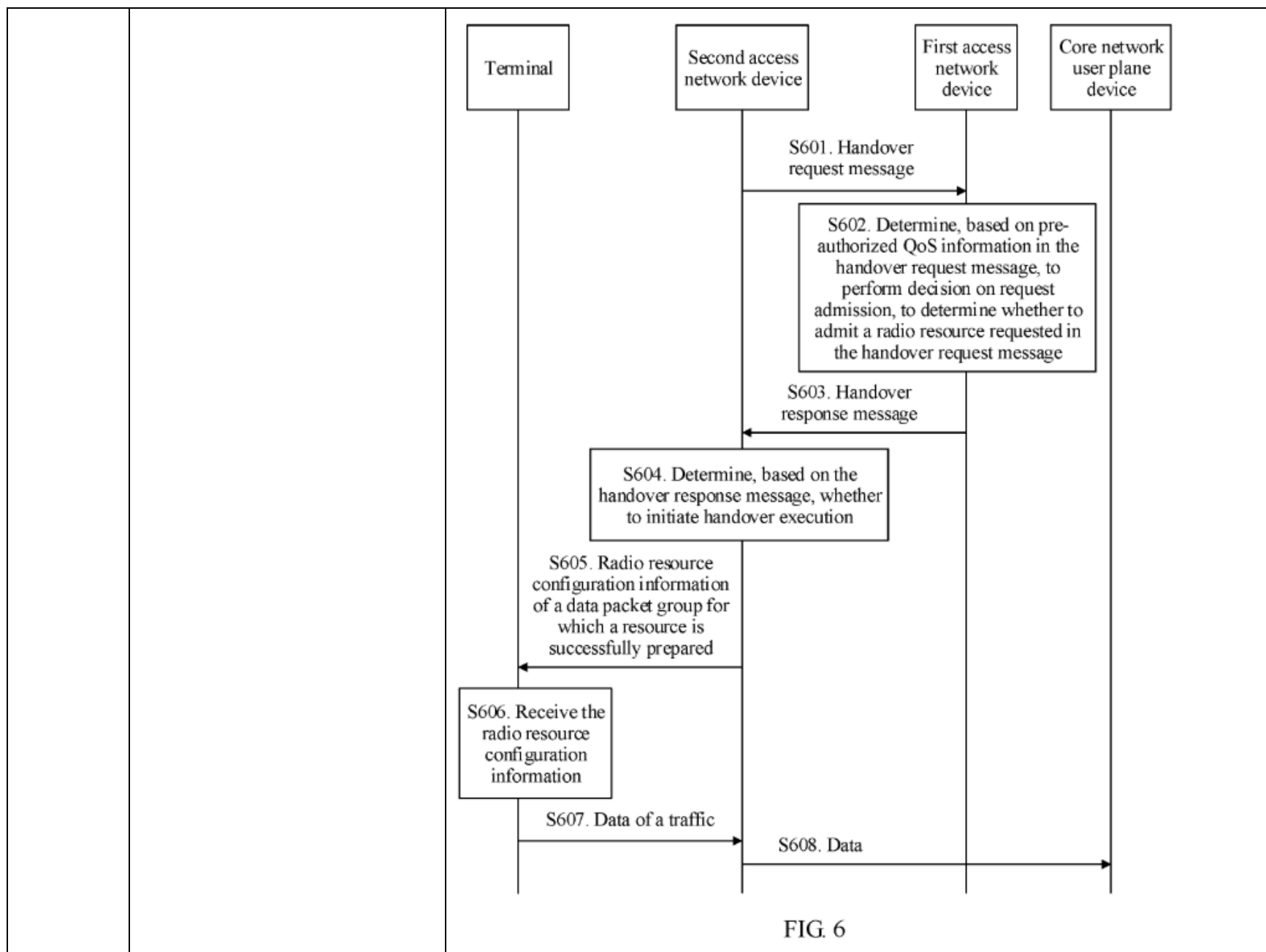


Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “The first QoS information includes at least one of first pre-authorized QoS information and reflective characteristic information, and the reflective characteristic information includes a downlink QoS parameter of the traffic and indication information that is used to indicate a capability of obtaining an uplink QoS parameter based on the downlink QoS parameter of the traffic. In this embodiment of the present invention, the pre-authorized QoS information (including the first pre-authorized QoS information and second pre-authorized QoS information in the following specification) is proactively configured by the core network control plane device for the terminal based on subscription information of the terminal or based on a common traffic (such as email or Taobao).” Han 222 at 2:48-61. “A core network control plane device sends first pre-authorized QoS information to a terminal, and sends second pre-authorized QoS information to a first access network device.” Han 222 at 20:13-16. “The core network control plane device may configure the pre-authorized QoS information (including the first pre-authorized QoS information and the second pre-authorized QoS information) for the terminal based on subscription information (for example, subscription information of the terminal obtained from a home subscriber server (English: Home Subscriber Server, HSS for short)) of the terminal. In addition, the core network control plane device may further configure the pre-authorized QoS information for the terminal based on a common traffic (such as email or Taobao). The two cases may be combined.” Han 222 at 20:17-27. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 6, 10, 59, 62, 69-71, 93, 94, 119. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

6. Claim 6

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
6	The method according to claim 5, wherein the transmission of the handover request message is performed through a direct interface associated with the target base station.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the transmission of the handover request message is performed through a direct interface associated with the target base station. For example, Han 222 discloses this limitation based on the following exemplary citations:



Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		Han 222 at Fig. 6. “The second access network device may also be referred to as a source-side access network device, and the first access network device may also be referred to as a target-side access network device. A handover process message between the first access network device and the second access network device may be sent and received through a direct interface between the first access network device and the second access network device (a handover process between peer entities), or may be forwarded by a third party, for example, by a core network control plane device (a handover process performed by using a core network).” Han 222 at 30:19-29. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 11-12, 27-28. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

7. Claim 7

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
7[pre]	A controller for transmitting and receiving data, the controller comprising:	To the extent the preamble is limiting, at least under Pegasus's apparent infringement theory, Han 222 discloses a controller for transmitting and receiving data. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[pre]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
7[a]	a processor performs:	At least under Pegasus's apparent infringement theory, Han 222 discloses a processor. For example, Han 222 discloses this limitation based on the following exemplary citations:

Invalidity of U.S. Patent 11,627,631 in view of Han 222

Claim Language

Exemplary Citations to Han 222

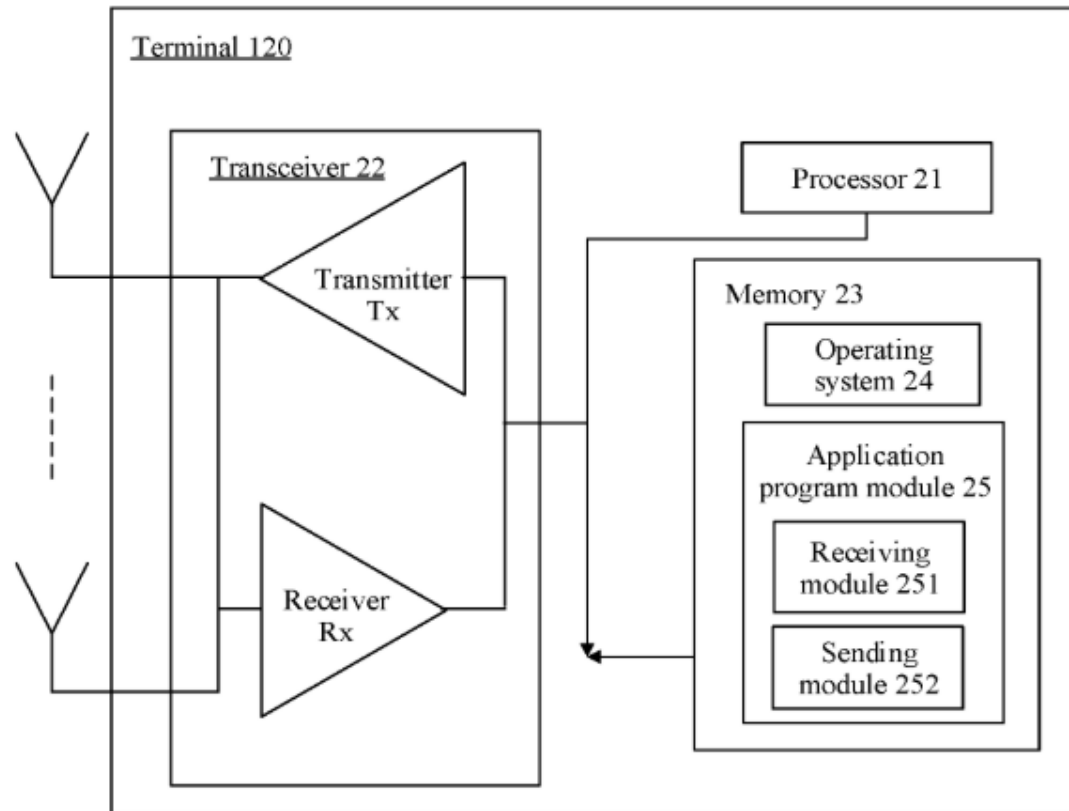


FIG. 2

Han 222 at Fig. 2.

Invalidity of U.S. Patent 11,627,631 in view of Han 222

Claim Language

Exemplary Citations to Han 222

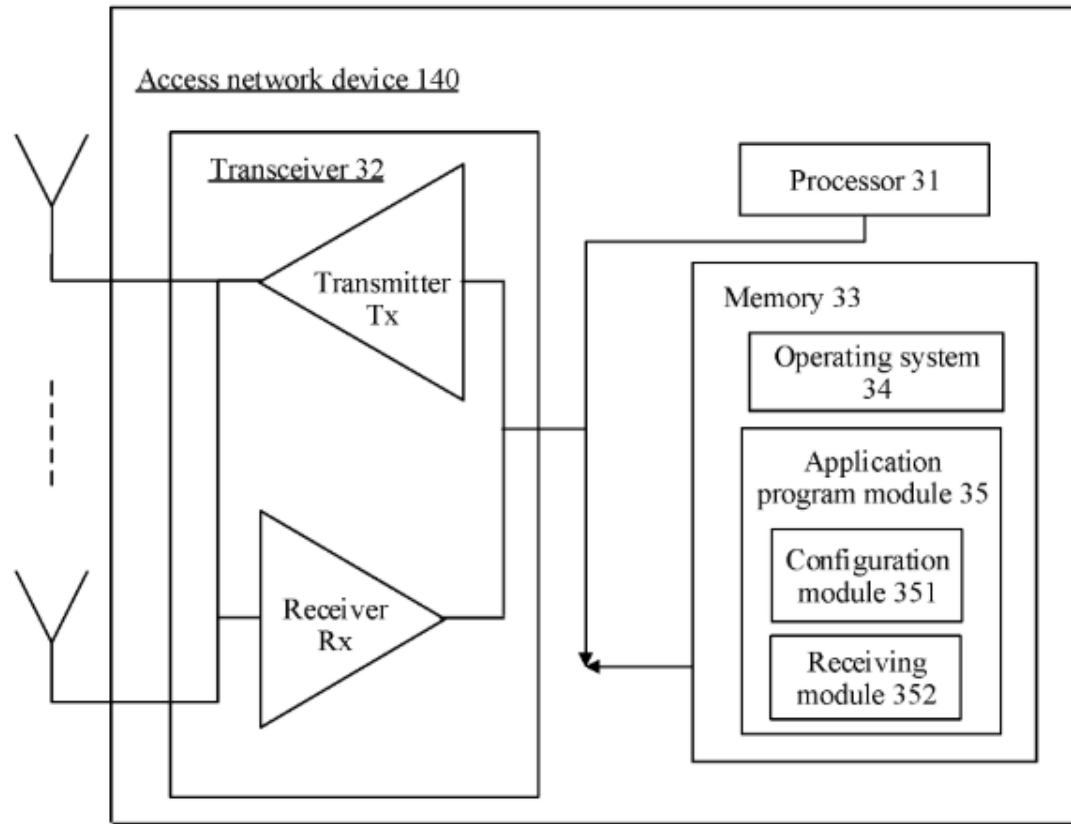


FIG. 3

Han 222 at Fig. 3.

Invalidity of U.S. Patent 11,627,631 in view of Han 222

Claim Language

Exemplary Citations to Han 222

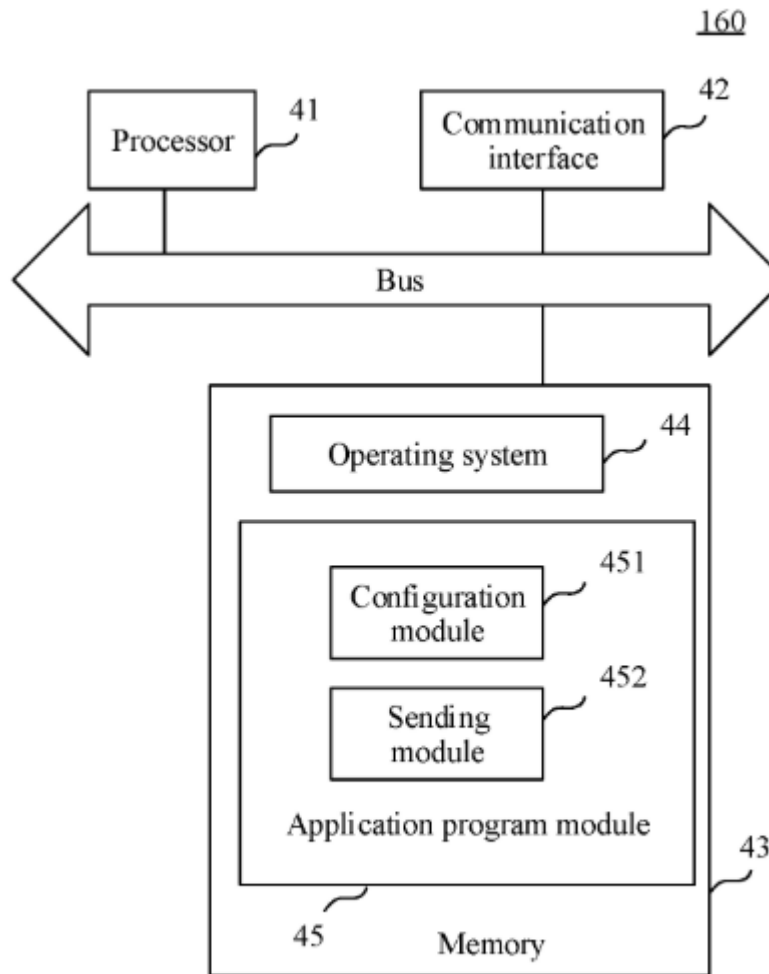


FIG. 4

Han 222 at Fig. 4.

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		“The processor 41 is a control center of the core network control plane device 160, connects to all components of the whole core network control plane device 160 by using various interfaces and circuits, and executes functions of the core network control plane device 160 and processes data by running or executing a software program and/or an application program module stored in the memory 42 and invoking data stored in the memory 42, to perform overall monitoring on the core network control plane device 160. Optionally, the processor 41 may include one or more processing units. The processing unit may be a central processing unit (English: Central Processing Unit, CPU for short), a network processor (English: Network Processor, NP for short), or the like.” Han 222 at 19:29-42. The 2016 Application supports these disclosures. <i>See, e.g.</i>, Translation of 2016 Application at pages 13, 41-43, 50-56, 120, 125. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
7[b]	to decide whether to perform a handover,	At least under Pegasus’s apparent infringement theory, Han 222 discloses to decide whether to perform a handover. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[a].

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
7[c]	to transmit a handover request message when it is decided to perform the handover,	At least under Pegasus's apparent infringement theory, Han 222 discloses to transmit a handover request message when it is decided to perform the handover. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[b]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
7[d]	wherein the handover request message includes network slice information; and	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the handover request message includes network slice information. For example, Han 222 discloses this limitation based on the following exemplary citations:

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		<i>See</i> limitation 1[c]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
7[e]	to receive a handover request confirmation message in response to the handover request message,	At least under Pegasus’s apparent infringement theory, Han 222 discloses to receive a handover request confirmation message in response to the handover request message. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[d]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
7[f]	wherein, if one or more protocol data unit (PDU) sessions are associated with one or more network slices that are not supported by a target BS, the handover request confirmation message includes information for indicating a rejection of the one or more PDU sessions by the target BS.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein, if one or more protocol data unit (PDU) sessions are associated with one or more network slices that are not supported by a target BS, the handover request confirmation message includes information for indicating a rejection of the one or more PDU sessions by the target BS. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[e]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

8. Claim 8

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
8	The controller according to claim 7, wherein the processor further performs to receive a non-access stratum (NAS) message including network slice request information.	At least under Pegasus's apparent infringement theory, Han 222 wherein the processor further performs to receive a non-access stratum (NAS) message including network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> claim 2.

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

9. Claim 9

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
9	The controller according to claim 8, wherein the processor further performs to receive the network slice information from a core network, wherein the network slice information is configured by the network slice request information.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the processor further performs to receive the network slice information from a core network, wherein the network slice information is configured by the network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 3.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

10. Claim 10

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
10	The controller according to claim 8, wherein the NAS message including the network slice request information is included in a radio resource control (RRC) connection setup completion message.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the NAS message including the network slice request information is included in a radio resource control (RRC) connection setup completion message. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 4.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

11. Claim 11

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
11	The controller according to claim 9, wherein the network slice information is configured by the core network entity based on the network slice request information.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the network slice information is configured by the core network entity based on the network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 5.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

12. Claim 12

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
12	The controller according to claim 11, wherein the transmission of the handover request message is performed through a direct interface	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the transmission of the handover request message is performed through a direct interface associated with the target base station. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 6.</i>

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
	associated with the target base station.	To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

13. Claim 13

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
13[pre]	An apparatus for transmitting and receiving data, the apparatus comprising:	To the extent the preamble is limiting, at least under Pegasus's apparent infringement theory, Han 222 discloses an apparatus for transmitting and receiving data. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[pre]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
13[a]	a controller configured to decide whether to perform a handover,	At least under Pegasus's apparent infringement theory, Han 222 discloses a controller configured to decide whether to perform a handover. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[a]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
13[b]	a transmitter configured to transmit a handover request message when it is decided to perform the handover,	At least under Pegasus's apparent infringement theory, Han 222 discloses a transmitter configured to transmit a handover request message when it is decided to perform the handover. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See</i> limitation 1[b]. To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
13[c]	wherein the handover request message includes network slice information; and	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the handover request message includes network slice information. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See limitation 1[c].</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
13[d]	a receiver configured to receive a handover request confirmation message in response to the handover request message,	At least under Pegasus's apparent infringement theory, Han 222 discloses a receiver configured to receive a handover request confirmation message in response to the handover request message. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See limitation 1[d].</i>

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.
13[e]	wherein, if one or more protocol data unit (PDU) sessions are associated with one or more network slices that are not supported by a target BS, the handover request confirmation message includes information for indicating a rejection of the one or more PDU sessions by the target BS.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein, if one or more protocol data unit (PDU) sessions are associated with one or more network slices that are not supported by the target BS, the handover request confirmation message includes information for indicating a rejection of the one or more PDU sessions by the target BS. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See limitation 1[e].</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

14. Claim 14

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
14	The apparatus according to claim 13, wherein the processor further performs to receive a non-access stratum (NAS) message including network slice request information.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the processor further performs to receive a non-access stratum (NAS) message including network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 2.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

15. Claim 15

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
15	The apparatus according to claim 14, wherein the processor further performs to receive the network slice information from a core network, wherein the network	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the processor further performs to receive the network slice information from a core network, wherein the network slice information is configured by the network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations:

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
	slice information is configured by the network slice request information.	<i>See claim 3.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

16. Claim 16

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
16	The apparatus according to claim 14, wherein the NAS message including the network slice request information is included in a radio resource control (RRC) connection setup completion message.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the NAS message including the network slice request information is included in a radio resource control (RRC) connection setup completion message. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 4.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
		the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

17. Claim 17

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
17	The apparatus according to claim 15, wherein the network slice information is configured by the core network entity based on the network slice request information.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the network slice information is configured by the core network entity based on the network slice request information. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 5.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.

18. Claim 18

Invalidity of U.S. Patent 11,627,631 in view of Han 222		
Claim Language		Exemplary Citations to Han 222
18	The apparatus according to claim 17, wherein the transmission of the handover request message is performed through a direct interface associated with the target base station.	At least under Pegasus's apparent infringement theory, Han 222 discloses wherein the transmission of the handover request message is performed through a direct interface associated with the target base station. For example, Han 222 discloses this limitation based on the following exemplary citations: <i>See claim 6.</i> To the extent it is found that Han 222 does not expressly disclose this limitation, the limitation is inherent. Moreover, to the extent it is found that Han 222 does not anticipate this claim, Han 222 renders it obvious, either alone, in combination with the knowledge of a person of ordinary skill in the art, and/or in combination with other prior art references identified in the cover pleading or herein. A person of ordinary skill in the art would have been motivated to combine Han 222 with any of the other prior art references identified in the cover pleading or herein with a reasonable expectation of success because each of these references contains familiar elements within the same field of endeavor to address the same known problems, according to known methods which would yield predictable results.