ALVERSON, TAYLOR, MORTENSEN & SANDERS

1 ALVERSON, TAYLOR, **MORTENSEN & SANDERS** 2 KURT R. BONDS, ESQ. Nevada Bar No. 6228 3 ADAM R. KNECHT, ESQ. 4 Nevada Bar No. 13166 7401 W. Charleston Boulevard 5 Las Vegas, NV 89117 (702) 384-7000 6 efile@alversontaylor.com Attorneys for Plaintiff 7 8 UNITED STATES DISTRICT COURT 9 DISTRICT OF NEVADA 10 \* 11 VOIP-PAL.COM, INC, a Nevada corporation, CASE NO.: 12 Plaintiff, LAWYERS 7401 WEST CHARLESTON BOULEVARD LAS VEGAS, NEVADA 89117-1401 (702) 384-7000 13 CHART 2 14 v. ASSERTED CLAIMS AND 15 APPLE, INC, a California corporation, **INFRINGEMENT CONDITIONS** 16 Defendants. 17 18 **CHART 2** 19 CHART SUPPORTING ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS 20 CONCERNING U.S. PATENT NO. 9,179,005 21 Apple Inc. ("Apple") manufacturers, supports and operates a messaging platform (the 22 "Apple Messaging System") that includes Apple desktop computers, laptops, tablets and mobile 23 devices, software applications running on such devices and servers associated with iMessage, an 24 instant messaging service. The Apple Messaging System allows smartphone and desktop users to 25 send messages including text, images, video and audio to others. Apple practices certain claims 26 of U.S. Patent No. 9,179,005 ("the '005 patent") as illustrated in the chart below. 27 The Apple Messaging System allows devices to initiate a communication between a 28

caller, or a first participant, and a callee, or a second participant, which may be an Apple subscriber or a non-subscriber. A profile that includes attributes is used as part of the process that classifies a communication.

This chart applies claims 1, 24 – 26, 49, 50, 73 – 77, 79, 83, 84, 88, 89, 92, 94, 96, 98 and 99 of the '005 patent to the <u>Apple Messaging System</u>.

7		U.S. Patent No. 9,179,005
8	Claim	Accused Device/Instrumentality
9	1. [1p] A process for producing a	The Apple Messaging System produce a routing message for routing communications between a caller and a callee in a communication system.
10	routing message for routing	The Apple Messaging System offers messaging services through its
11	communications between a caller	Messages application, which is available for Apple desktop computers, laptops, tablets and mobile devices running OS X, iOS and watchOS
12	and a callee in a	operating systems.
13	communication system, the	
14	process comprising:	Pac Φ Edd Monsagen 27 Bits Bits Context
15	comprising.	C. Stream  To a settled in yer?  Part Zonanet  For a Settled in yer?  True, Sorte V Monot a Intesting Internet  True, Sorte V Monot a Intesting Internet  True Settle Security  True Security  True Settle Security  True Security
16		Messages.
17		Unlimited texting.
18		Unlimited fun.
19		If you're a texter, you'll love Messages on iPhone, iPad and iPod touch. Now they all come with iMessage, a service that's an even
20		better kind of texting. Because it's free for you and anyone texting over Wi-Fi using an
21		iOS device or Mac with iMessage. And it's unlimited.* So say as much as you want.
22		
23		
24		Apple Messages allows iPads and iPhones connected to a cellular network
25		and/or Wi-Fi network to send messages including text, audio, video and
26		images to other users.
27	[1a] using a caller identifier	The Apple Messaging System uses a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling
28	associated with	attributes associated with the caller.
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VPLM00338

U.S. Patent No. 9,179,005				
Claim the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller;		Accused Device/Instrumentality		
		In the Apple Messaging System th or other identifier of the caller. A application. A caller dialing profi information used in the classificat stored on the caller device, inform information obtained regarding th network.	ne ca mes le in ion c nation	ller identifier includes the Apple I sage is initiated by the Messages cluding calling attributes includes of a communication, such as settin n stored on an Apple server, and/o
	[1b] when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet private network classification criteria,	based on the contact list of the sm callee identifier includes a phone of The Apple Messaging System allo and using SMS/MMS. Private ne routing the message using iMessa establish a private network classif One example of calling attributes classification criteria is the use of	a cal ficat form artpl numl ows r twor ge. ( ication bein) calle on the	llee identifier associated with the ion criteria. nation associated with the recipien none or entered by the user. The ber associated with the callee. messages to be sent using iMessag k classification criteria represents Calling attributes are used to on criteria. g used to establish private network er routing settings. If the caller has eir phone and the callee is an Appl
		Settings		Settings Messages
		Mail, Contacts, Calendars	>	
		Notes		iMessage
				iMessages can be sent between iPhone, iPad, iPod touch, and Mac. Learn More
		Reminders		
		S Phone	>	Send Read Receipts
		Messages	_	Allow others to be notified when you have read their messages.
		Tacenine Tacenine Maps	>	Send as SMS
1			_	Send as SMS when iMessage is unavailable. Carrier
		Compass		messaging rates may apply.

	U.S. Patent No. 9,179,005		
Claim	Accused Device/Instrumentality		
	Another example of calling attributes being used to establish private network classification criteria is the use of caller information to interpret		
	the callee identifier. For example, if the callee identifier is an international phone number with international dialing digits (IDD) or national dialing digits (NDD) prepended, information associated with the registered		
	location of the caller and/or the physical location of the caller is used to determine how to reformat the callee identifier before it can be determined		
	if the callee is an Apple subscriber with iMessage available.		
	Another example of calling attributes being used to establish private network classification criteria is the use of saved information on the called		
	device and/or saved information stored on Apple servers regarding recent sent messages. For example, if a message is being sent to a callee that has		
	recently been sent a message using iMessage, the message may be classified as private based on the saved information.		
	Another example of calling attributes being used to establish private network classification criteria is the use of caller account status		
	information. If the account of the caller is active and not configured to block communication with the callee, and the callee is an Apple subscribe with iMessage available, then the message can be sent using iMessage. If		
	an Apple ID is locked, no messages are allowed to be sent using the Appl Messages System.		
	If your Apple ID is locked		
	If you or someone else enters your password, security questions, or other account information incorrectly too many times, your Apple ID automatically locks to protect		
	your security and you can't sign in to any Apple services. You can unlock your Appl ID after you verify your identity.		
	If your Apple ID is locked for security reasons, you might see one of these alerts:		
	<ul> <li>"This Apple ID has been disabled for security reasons"</li> <li>"You can't sign in because your account was disabled for security reasons"</li> </ul>		
	<ul> <li>"This Apple ID has been locked for security reasons"</li> </ul>		
[1c] producing private networ			
routing messa for receipt by	ge network associated with the callee.		
call controller, said private			

	U.S. Patent No.	. 9,179,005
Claim	Accused	Device/Instrumentality
network routing	Notification server which com	nmunicates with the callee's device.
message identifying an address, on the	Apple Push Notifica	tion Service
private network, associated with	and highly efficient service for propagatin	the centerpiece of the remote notifications feature. It is a r ng information to iOS (and, indirectly, watchOS), tvOS, and dited and encrypted IP connection with APNs and receives
the callee; and		ion. If a notification for an app arrives when that app is not
	• • • •	icates that a message is sent using iMessa the message with the color blue.
[1d] when at		determines if at least one of the calling
least one of said calling attributes	attributes and at least a portion classification criteria.	n of the callee identifier meet public netw
and at least a portion of said	The Apple Messaging System	allows messages to be sent using iMessa
callee identifier	and through a gateway to a put	blic network using SMS/MMS. Public
meet a public network	SMS/MMS. Calling attributes	represents routing the message using s are used to establish a public network
classification criterion,	classification criteria.	
,	1 0	utes being used to establish public networe of caller routing settings. If the caller h
	activated the "iMessage" settin	ng on their phone and also the "Send as
	-	s not an Apple subscriber or is an Apple not available, then the message is sent us
	SMS/MMS.	
	Settings	Settings Messages
	Mail, Contacts, Calendars	>
	Notes	iMessage
	Reminders	iMessages can be sent between iPhone, iPad, iPod touch, and Mac. Learn More
	Phone	>
	Messages	Send Read Receipts
	FaceTime	Allow others to be notified when you have read thei messages.
	Maps	Send as SMS
	· · · · · · · · · · · · · · · · · · ·	Cond as SMC when Message is unavailable. Carrie
	Compass	Send as SMS when iMessage is unavailable. Carrie messaging rates may apply.

U.S. Patent No. 9,179,005		
Claim	Accused Device/Instrumentality	
	Another example of calling attributes being used to establish public network classification criteria is the use of caller information to interpret	
	the callee identifier. For example, if the callee identifier is an international phone number with international dialing digits (IDD) or national dialing	
	digits (NDD) prepended, information associated with the registered location of the caller and/or the physical location of the caller is used to	
	determine how to reformat the callee identifier before it can be determined if the callee is an Apple subscriber with iMessage available.	
	Another example of calling attributes being used to establish public network classification criteria is the use of saved information on the caller	
	device and/or saved information stored on Apple servers regarding recentl sent messages. For example, if a message is being sent to a callee that has	
	recently been sent using SMS/MMS, the message may be classified as public based on the saved information.	
	Another example of calling attributes being used to establish public	
	network classification criteria is the use of caller account status information. If the account of the caller is active and not configured to	
	block communication with the callee, and the callee is not an Apple subscriber or is an Apple subscriber but with iMessage not available, then the message is sent using SMS/MMS. If an Apple ID is locked, no messages are allowed to be sent using the Apple Messages System.	
	If your Apple ID is locked	
	If you or someone else enters your password, security questions, or other account information incorrectly too many times, your Apple ID automatically locks to protect	
	your security and you can't sign in to any Apple services. You can unlock your Appl ID after you verify your identity.	
	If your Apple ID is locked for security reasons, you might see one of these alerts:	
	<ul> <li>"This Apple ID has been disabled for security reasons"</li> <li>"You can't sign in because your account was disabled for security reasons"</li> </ul>	
	<ul> <li>"You can't sign in because your account was disabled for security reasons"</li> <li>"This Apple ID has been locked for security reasons"</li> </ul>	
[1e] producin		
public networ routing messa	ge network.	
for receipt by call controller		

VPLM00342

U.S. Patent No. 9,179,005		
Claim	Accused Device/Instrumentality	
network routing	cellular network.	
message identifying a	The Messages application indicates that a message is sent to a non-Appl	
gateway to the	subscriber by filling in the text bubble of the message with the color greater	
public network.		
24 The process	The Apple Messaging System cause the private network routing message	
24. The process of claim 1,	The Apple Messaging System cause the private network routing messag or the public network routing message to be communicated to a call	
further	controller to effect routing of the call.	
comprising		
causing the	The Apple Messaging System uses a call controller apparatus that includ	
private network	one or more Apple servers and/or the caller Apple device.	
routing message or the public		
network routing		
message to be		
communicated to		
a call controller to effect routing		
of the call.		
25. A non-	The Apple Messaging System include a non-transitory computer readable	
transitory	medium encoded with codes for directing a processor to execute the	
computer readable medium	method of claim 1.	
encoded with	The Apple Messaging System uses processors with instructions in the	
codes for	device running the Messages application and Apple servers.	
directing a		
processor to execute the	See claim elements [1p], [1a], [1b], [1c], [1d] and [1e].	
method of claim		
1.		
26. [26p] A call	The Apple Messaging System include a call routing controller apparatus	
routing	for producing a routing message for routing communications between a	
controller	caller and a callee in a communication system.	
apparatus for		
producing a	The Apple Messaging System uses a call routing controller apparatus the	
routing message for routing	includes one or more Apple servers and/or the caller Apple device.	
communications	See claim element [1p].	
between a caller	L	
and a callee in a		
communication		

U.S. Patent No. 9,179,005		
Claim	Accused Device/Instrumentality	
system, the		
apparatus		
comprising:		
[26a] at least one	The Apple Messaging System include at least one processor.	
processor		
operably	The Apple Messaging System uses processors with instructions in the	
configured to:	device running the Messages application and/or Apple servers.	
[26b] use a caller	See claim element [1a].	
identifier		
associated with the caller to		
locate a caller		
dialing profile		
comprising a		
plurality of calling attributes		
associated with		
the caller;		
[26c] when at least one of said	See claim element [1b].	
calling attributes		
and at least a		
portion of a		
callee identifier associated with		
the callee meet		
private network		
classification		
criteria,		
[26d] produce a	See claim element [1c].	
private network		
routing message for receipt by a		
call controller,		
said private		
network routing		
message identifying an		
address, on the		

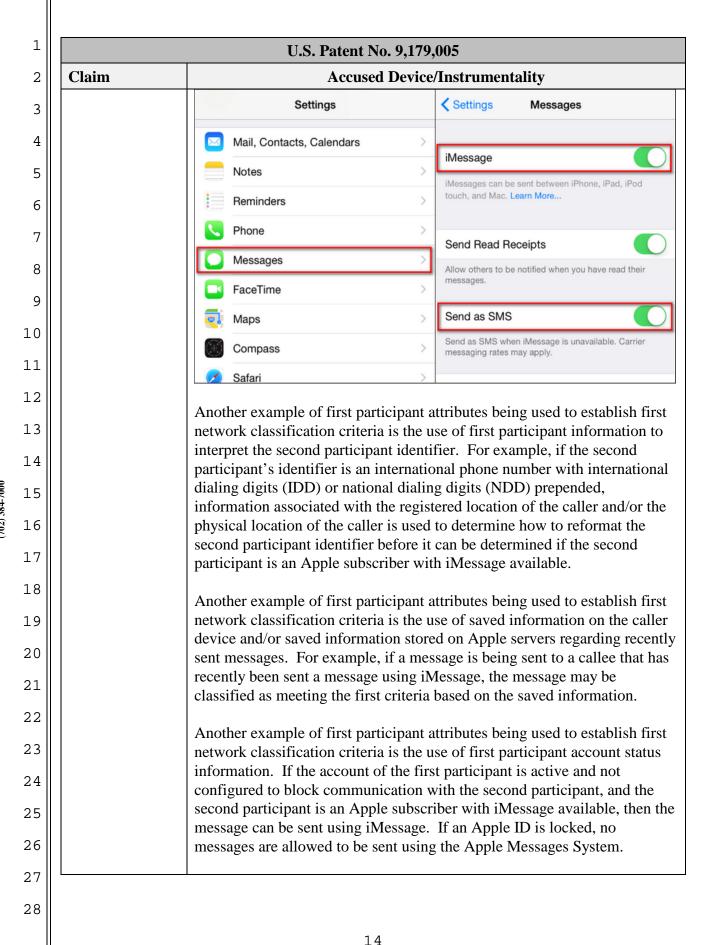
	U.S. Patent No. 9,179,005
Claim	Accused Device/Instrumentality
private network,	
associated with	
the callee; and	
[26e] when at	See claim element [1d].
least one of said	
calling attributes	
and at least a	
portion of said	
callee identifier	
meet a public	
network classification	
criterion,	
[26f] produce a	See claim element [1e].
public network	
routing message	
for receipt by the	
call controller, said public	
network routing	
message	
identifying a	
gateway to the	
public network.	
49. The	The Apple Messaging System cause the private network routing messa
apparatus of	or the public network routing message to be communicated to a call
claim 26,	controller to effect routing of the call.
wherein said at	
least one	The Apple Messaging System uses a call controller that includes one o
processor is	more Apple servers and/or the caller Apple device.
further operably configured to	
cause the private	
network routing	
message or the	
public network	
routing message	
to be	
communicated to	
a call controller	
to effect routing	

ClaimAccused Device/Instrumentalityof the call.Ite Apple Messaging System include a call routing controller appar for producing a routing message for routing communications between caller and a callee in a communication system.apparatus for producing a routing communications between a caller and a callee in a communication system, the apparatus comprising:The Apple Messaging System uses a call routing controller apparatu includes one or more Apple servers and/or the caller Apple device.[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising aSee claim element [1a].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the caller, andSee claim element [1b].[50b] means for, system at least one of a calle eidentifier associated with the caller, andSee claim element [1b].
50. [50p] A call routing       The Apple Messaging System include a call routing controller apparat for producing a routing message for routing communications between caller and a callee in a communication system.         apparatus for producing a routing message for routing communications between a caller and a callee in a communication system, the apparatus comprising:       The Apple Messaging System uses a call routing controller apparatus includes one or more Apple servers and/or the caller Apple device.         50a] means for using a caller identifier associated with the caller to locate a caller calling attributes associated with the caller; and       See claim element [1a].         50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet       See claim element [1b].
routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communications between a caller associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller in the producing a caller of said calling attributes and at least a portion of a callee identifier associated with the calle identifier associated with the calle identifier associated with the calle meet
routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communications between a caller associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller in the producing a caller of said calling attributes and at least a portion of a callee identifier associated with the calle identifier associated with the calle identifier associated with the calle meet
apparatus for producing a routing message for routing communications between a caller and a caller in a communication system, the apparatus comprising:The Apple Messaging System uses a call routing controller apparatus includes one or more Apple servers and/or the caller Apple device.[50a] means for using a caller identifier associated with the caller aller glain gattributes associated with the caller; andSee claim element [1a].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the caller emeetSee claim element [1b].
routing message for routing communications between a caller and a callee in a communication system, the apparatus comprising:
for routing communications between a caller and a callee in a communication system, the apparatus comprising:See claim element [1p].[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andSee claim element [1a].[50b] means for, using a tributes associated with the caller; andSee claim element [1b].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the caller identifier
communications between a caller and a callee in a communication system, the apparatus comprising:See claim element [1p].[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andSee claim element [1a].[50b] means for, using a tributes associated with the caller; andSee claim element [1b].[50b] means for, vhen at least one of said calling attributes and at least a portion of a callee identifier associated with the caller emetSee claim element [1b].
between a caller and a callee in a communication system, the apparatus comprising: [50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the calle reated as a portion of a callee identifier associated with the calle meet
and a callee in a communication system, the apparatus comprising:see claim element [1a].[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andSee claim element [1a].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the caller meetSee claim element [1b].
system, the apparatus comprising: [50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
apparatus comprising:See claim element [1a].[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andSee claim element [1a].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the caller emeetSee claim element [1b].
comprising:[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andSee claim element [1a].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the caller emeetSee claim element [1b].
[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andSee claim element [1a].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meetSee claim element [1b].
using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; and          [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet       See claim element [1b].
identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the caller meet
associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andsee claim element [1b].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meetSee claim element [1b].
locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; andsee claim element [1b].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meetSee claim element [1b].
dialing profile comprising a plurality of calling attributes associated with the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
comprising a plurality of calling attributes associated with the caller; andsee claim element [1b].[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meetSee claim element [1b].
plurality of calling attributes associated with the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
associated with the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
the caller; and [50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
[50b] means for, when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meetSee claim element [1b].
when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet
attributes and at least a portion of a callee identifier associated with the callee meet
least a portion of a callee identifier associated with the callee meet
a callee identifier associated with the callee meet
the callee meet
pilvate network
classification
criteria,
[50a] producing See claim element [1a]
[50c] producing See claim element [1c]. a private network
10

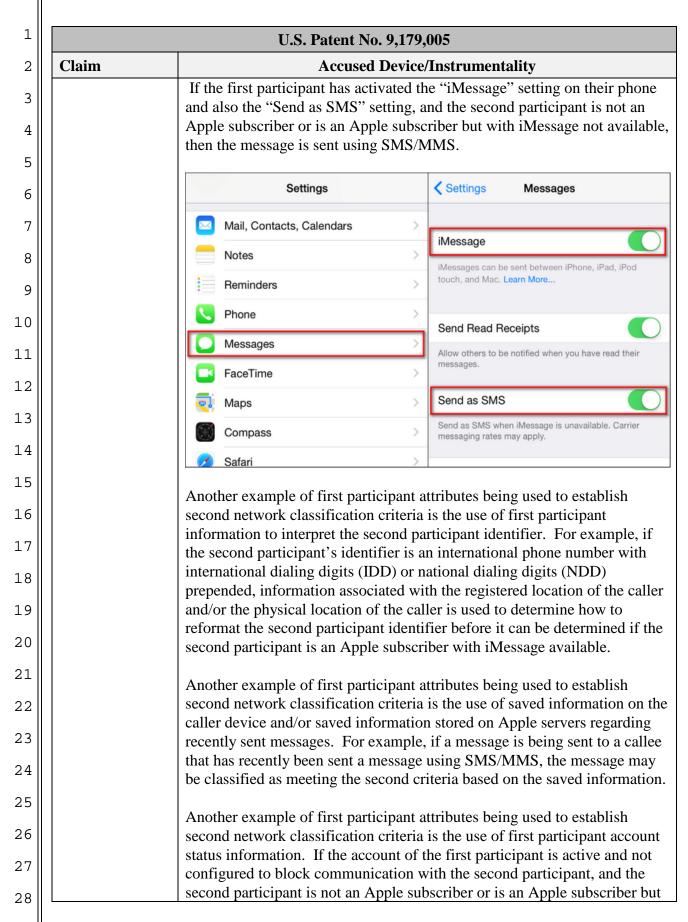
	U.S. Patent No. 9,179,005
Claim	Accused Device/Instrumentality
outing message	
or receipt by a call controller,	
said private	
network routing	
nessage	
dentifying an	
ddress, on the	
rivate network,	
ssociated with he callee; and	
ic cance, and	
50d] means for,	See claim element [1d].
when at least one	
of said calling	
ttributes and at east a portion of	
aid callee	
lentifier meet a	
ublic network	
lassification	
riterion,	
50e] producing	See claim element [1e].
public network	
outing message	
or receipt by the	
call controller,	
aid public network routing	
nessage	
dentifying a	
gateway to the	
oublic network.	
73. The	See claim element [40]
apparatus of	See claim element [49].
claim 50, further	
comprising	
neans for	
causing the	
private network	
outing message or the public	

	U.S. Patent No. 9,179,005
Claim	Accused Device/Instrumentality
network routing message to be communicated to a call controller to effect routing of the call.	
74. [74p] A method of	The Apple Messaging System routes communications in a packet swi network in which a first participant identifier is associated with a first
routing communications in a packet	participant and a second participant identifier is associated with a second participant in a communication.
switched network in which	The Apple Messaging System offers messaging services through its Messages application, which is available for Apple desktop computer
a first participant identifier is	laptops, tablets and mobile devices running OS X, iOS and watchOS operating systems.
associated with a first participant and a second	
participant identifier is associated with a second participant in a communication, the method comprising:	<text><text></text></text>
	Apple Messages allows iPads and iPhones connected to a cellular net and/or Wi-Fi network to send messages including text, audio, video a images to other users.
	The Apple Messaging System communicates over a packet switched network.
	In the Apple Messaging System the first participant identifier includes

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Claim	Accused Device/Instrumentality
	Apple ID or other identifier of the first participant. The second participant identifier includes a phone number associated with the second participant.
[74a] after the first participant has accessed the packet switched network to	The Apple Messaging System, after the first participant has accessed the packet switched network to initiate the communication, uses the first participant identifier to locate a first participant profile comprising a plurality of attributes associated with the first participant.
initiate the communication, using the first participant identifier to	In the Apple Messaging System a message is initiated by the Messages application. A first participant profile including attributes includes information used in the classification of a communication, such as settings stored on the first participant device, information stored on an Apple server, and/or information obtained regarding the connection of the first
locate a first participant profile	participant device to the network.
comprising a plurality of attributes	
associated with the first	
participant;	
[74b] when at least one of the first participant	The Apple Messaging System determines if at least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion.
attributes and at least a portion of the second	The Apple Messaging System allows messages to be sent using iMessage and using SMS/MMS. First network classification criteria represents
participant identifier meet a	routing the message using the iMessage system. First participant attribute are used to establish a private network classification criteria.
first network classification criterion,	One example of first participant attributes being used to establish first network classification criteria is the use of first participant routing settings
	If the first participant has activated the "iMessage" setting on their phone and the second participant is an Apple subscriber with iMessage available
	then the message can be sent using iMessage.
	13



	U.S. Patent No. 9,179,005
Claim	Accused Device/Instrumentality
	If your Apple ID is locked
	If you or someone else enters your password, security questions, or other account information incorrectly too many times, your Apple ID automatically locks to protect your security and you can't sign in to any Apple services. You can unlock your Apple ID after you verify your identity.
	If your Apple ID is locked for security reasons, you might see one of these alerts:
	<ul> <li>"This Apple ID has been disabled for security reasons"</li> <li>"You can't sign in because your account was disabled for security reasons"</li> <li>"This Apple ID has been locked for security reasons"</li> </ul>
[74c] producing	The Apple Messaging System produces a first network routing message for
a first network routing message for receipt by a	receipt by a controller which identifies an address, associated with the second participant, in a first portion of the packet switched network, which is controlled by an entity.
controller, the	is controlled by an entity.
first network routing message	The iMessage protocol is based on the Apple Push Notification Service. I a user message is sent using iMessage, a message is sent to an Apple Push
identifying an address in a first	Notification server which communicates with the second participant's device.
portion of the	
packet switched network, the	Apple Push Notification Service
address being	Apple Push Notification service (APNs) is the centerpiece of the remote notifications feature. It is a robus
associated with the second participant, the	and highly efficient service for propagating information to iOS (and, indirectly, watchOS), tvOS, and OS X devices. Each device establishes an accredited and encrypted IP connection with APNs and receives notifications over this persistent connection. If a notification for an app arrives when that app is not running, the device alerts the user that the app has data waiting for it.
first portion	The Messages application indicates that a message is sent using iMessage
being controlled by an entity; and	by filling in the text bubble of the message with the color blue.
[74d] when at	The Apple Messaging System determines if at least one of the first
least one of the	participant attributes and at least a portion of the second participant
first participant attributes and at	identifier meet a second network classification criterion.
least a portion of the second	The Apple Messaging System allows messages to be sent using iMessage and through a gateway to a public network using SMS/MMS. Second
participant	network classification criteria represents routing the message using
identifier meet a second network	SMS/MMS. First participant attributes are used to establish a second network classification criteria.
classification criterion,	One example of first participant attributes being used to establish second
	network classification criteria is the use of first participant routing settings



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Claim	Accused Device/Instrumentality		
а	with iMessage not available, then the message is sent using SMS/MMS. If an Apple ID is locked, no messages are allowed to be sent using the Apple Messages System.		
	If your Apple ID is locked		
	If you or someone else enters your password, security questions, or other account		
	information incorrectly too many times, your Apple ID automatically locks to protect your security and you can't sign in to any Apple services. You can unlock your Apple ID after you verify your identity.		
	If your Apple ID is locked for security reasons, you might see one of these alerts:		
	"This Apple ID has been disabled for security reasons"		
	<ul> <li>"You can't sign in because your account was disabled for security reasons"</li> </ul>		
	<ul> <li>"This Apple ID has been locked for security reasons"</li> </ul>		
a second network f	The Apple Messaging System produce a second network routing message for receipt by the controller which identifies an address in a second portior		
routing message of for receipt by the	of the packet switched network, which is not controlled by the entity.		
	If a message is sent using SMS/MMS, the device running the Messages application delivers the message using a gateway associated with the		
routing message	cellular network.		
identifying an address in a			
second portion of the packet			
switched			
network, the second portion			
not controlled by the entity.			
75. The method I	In the Apple Messaging System the packet switched network includes the		
of claim 74, I	Internet.		
wherein the packet switched			
network comprises the			
Internet.			
76. The method I	In the Apple Messaging System the first participant identifier comprises a		
	first participant telephone number or username.		

of claim 74, wherein the second participant identifier comprises a second participant telephone number or username.a second participant telephone number or username.79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the packet switched network is access via an Internet service provider.83. The method of claim 74, wherein the packet switchedIn the Apple Messaging System the first network classification criter satisfied when an address associated with the first participant and the address associated with the second participant are both in the first po of the packet switched network.		U.S. Patent No. 9,179,005
participant identifier comprises a first participant telephone number or username.In the Apple Messaging System the second participant identifier com a second participant telephone number or username.77. The method of claim 74, wherein the second participant identifier comprises a second participant telephone number or username.In the Apple Messaging System the second participant identifier comprises a second participant telephone number or username.In the Apple Messaging System the packet switched network is access via an Internet service provider.79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the packet switched network is access via an Internet service provider.83. The method of claim 74, wherein the first network classification criterion is satisfied when anIn the Apple Messaging System the first network classification criter satisfied when an address associated with the first participant and the address associated with the second participant are both in the first po of the packet switched network.	Claim	Accused Device/Instrumentality
identifier comprises a first participant telephone number or username.In the Apple Messaging System the second participant identifier com a second participant telephone number or username.77. The method of claim 74, wherein the second participant telephone number or username.In the Apple Messaging System the second participant identifier comprises a second participant telephone number or username.79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the packet switched network is access via an Internet service provider.83. The method of claim 74, wherein the first network classification criterion is satisfied when anIn the Apple Messaging System the first network classification criter social address associated with the second participant are both in the first po of the packet switched network.		
comprises a first participant telephone number or username.In the Apple Messaging System the second participant identifier com a second participant telephone number or username.77. The method of claim 74, wherein the second participant telephone number or username.In the Apple Messaging System the second participant telephone number or username.79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the packet switched network is access via an Internet service provider.83. The method of claim 74, wherein the first networkIn the Apple Messaging System the first network classification criter satisfied when an address associated with the first participant and the address associated with the second participant are both in the first po of the packet switched network.		
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77. The method of claim 74, wherein the second participant identifier comprises a second participant telephone number or username.In the Apple Messaging System the second participant a second participant telephone number or username.79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the packet switched network is access via an Internet service provider.83. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the first network classification criter satisfied when an address associated with the first participant and the address associated with the second participant are both in the first po of the packet switched network.		
of claim 74, wherein the second participant identifier comprises a second participant telephone number or username.a second participant telephone number or username.79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the packet switched network is access via an Internet service provider.83. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the first network classification criter satisfied when an address associated with the first participant and the address associated with the second participant are both in the first po of the packet switched network.	username.	
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79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.In the Apple Messaging System the packet switched network is access e provider.83. The method of claim 74, wherein the first network classification criterion is satisfied when anIn the Apple Messaging System the first network classification criter of the packet switched network.	_	
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of claim 74, wherein the first network classification criterion is satisfied when ansatisfied when an address associated with the first participant and the address associated with the second participant are both in the first po of the packet switched network.		
wherein the first network classification criterion is satisfied when anaddress associated with the second participant are both in the first po of the packet switched network.		
networkof the packet switched network.classificationcriterion issatisfied when an	-	
classification criterion is satisfied when an		
satisfied when an		1
address		
	address	
associated with		
the first		
participant and the address		
associated with		

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Claim	Accused Device/Instrumentality		
the second			
participant are			
both in the first portion of the			
packet switched			
network.			
84. The method	In the Apple Messaging System the address in the first portion is accessib		
of claim 74,	through the first participant's Internet service provider.		
wherein the address in the			
first portion is			
accessible			
through the first			
participant's			
Internet service			
provider.			
88. The method	In the Apple Messaging System the entity is an entity supplying		
of claim 74,	communication services for the first portion.		
wherein the			
entity is an entity			
supplying communication			
services for the			
first portion.			
89. The method	In the Apple Messaging System the second network classification criterio		
of claim 74, wherein the	is satisfied when access to the second participant requires routing through portion of the packet switched network operated by a communication		
second network	service supplier.		
classification	Service Supprov.		
criterion is			
satisfied when			
access to the			
second			
participant requires routing			
through a portion			
of the packet			
switched			
network operated			
by a			
communication			

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service supplier.	
92. The method of claim 74,	In the Apple Messaging System the address in the second portion of the packet switched network comprises an address accessed by a
wherein the address in the	communication service supplier.
second portion of	
the packet switched	
network comprises an	
address accessed	
by a communication	
service supplier.	
94. [94p] A	The Apple Messaging System routes communications in a packet switche
system for routing	network in which a first participant in a communication has an associated first participant identifier and a second participant in the communication
communications in a packet	has an associated second participant identifier.
switched	See claim element [74p].
network in which a first participant	
in a	
communication has an associated	
first participant identifier and a	
second participant in the	
communication has an associated	
second	
participant identifier, the	
system	
comprising:	
[94a] a controller comprising:	The Apple Messaging System include a controller comprising a processo operably configured to access a memory.
a processor	
operably configured to	The Apple Messaging System uses a controller with processors, memory and instructions that includes the device running the Messages application

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access a memory, wherein the processor is configured to:	and/or Apple servers.
[94b] after the first participant has accessed the packet switched network to initiate the communication, locate a first participant profile in the memory using the first participant identifier, the first participant profile comprising a plurality of attributes associated with the first participant;	See claim element [74a].
[94c] produce a first network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion,	See claim element [74b].

ClaimAccused Device/Instrumentality[94d] the first network routing message identifying an address in a first portion of the associated with the second participant, the first portion being controlled by an entity; andSee claim element [74d].[94e] produce a second network routing message when at least one of the first participant identifier meet a second network classification criterion,See claim element [74d].[94f] the second participant identifier meet a second network routing message identifying an address to portion of the second participant identifier meet a second network classificationSee claim element [74e].[94f] the second network routing message identifying an second portion of the packet switchedSee claim element [74e].	U.S. Patent No. 9,179,005				
network routing message identifying an address in a first portion of the packet switched network, the address being associated with the second participant, the first portion being controlled by an entity; and [94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by	Claim	Accused Device/Instrumentality			
message       identifying an         address in a first       portion of the         packet switched       network, the         address being       associated with         the second       participant, the         first portion       being controlled         by an entity; and       See claim element [74d].         [94e] produce a       second network         routing message       when at least one         of the first       participant         attributes and at       least a portion of         the second       participant         attributes and at       least a portion of         the second network       classification         criterion,       See claim element [74e].         [94f] the second       sec claim element [74e].         metwork routing       message         identifying an       address in a         second portion of       the packet         switched       network, the         second portion of       the packet         switched       network, the         second portion of       second portion of         the second       network, the         second portion of       second portion of		See claim element [74c].			
identifying an address in a first portion of the packet switched network, the address being associated with the second participant, the first portion being controlled by an entity; and [94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion ot controlled by					
address in a first         portion of the         packet switched         network, the         address being         associated with         the second         participant, the         first portion         being controlled         by an entity; and         [94e] produce a         second network         routing message         when at least one         of the first         participant         attributes and at         least a portion of         the second         participant         identifier meet a         second network         classification         criterion,         [94f] the second         network routing         message         identifying an         address in a         second portion of         the packet         switched         network, the         second portion of         the packet         switched         network, the         second portion         he packet         switched         network, the	-				
portion of the packet switched network, the address being associated with the second participant, the first portion being controlled by an entity; andSee claim element [74d].[94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant attributes and at least a portion of the second participant address in a second portion of the packet switched network, the second portion of the packet switched network the second portion of the packet switched network the second portion of the packet switched networ					
packet switched network, the address being associated with the second participant, the first portion being controlled by an entity; andSee claim element [74d].[94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,See claim element [74d].[94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled bySee claim element [74e].					
network, the address being associated with the second participant, the first portion being controlled by an entity; and       See claim element [74d].         [94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,       See claim element [74d].         [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by       See claim element [74e].	_				
address being associated with the second participant, the first portion being controlled by an entity; andSee claim element [74d].[94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant attributes and at least a portion of the second participant attributes and at least a portion of the second network classification criterion,See claim element [74d].[94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled bySee claim element [74e].					
associated with the second participant, the first portion being controlled by an entity; and     See claim element [74d].       [94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,     See claim element [74d].       [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by     See claim element [74e].					
the second         participant, the         first portion         being controlled         by an entity; and         [94e] produce a         second network         routing message         when at least one         of the first         participant         attributes and at         least a portion of         the second         participant         identifier meet a         second network         classification         criterion,         [94f] the second         network routing         message         identifying an         address in a         second portion of         the packet         switched         network, the         second portion         network by					
participant, the first portion being controlled by an entity; andSee claim element [74d].[94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,See claim element [74d].[94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled bySee claim element [74e].					
first portion being controlled by an entity; andSee claim element [74d].[94e] produce a second network routing message when at least one of the first 					
being controlled by an entity; and       See claim element [74d].         [94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,       See claim element [74e].         [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by       See claim element [74e].					
by an entity; and       [94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,       See claim element [74d].         [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion on to controlled by       See claim element [74e].					
[94e] produce a second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,       See claim element [74d].         [94f] the second network classification criterion,       See claim element [74e].         [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by       See claim element [74e].					
second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by	- ,				
second network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by	[94e] produce a	See claim element [74d].			
when at least one       of the first         participant       attributes and at         least a portion of       the second         participant       identifier meet a         second network       classification         criterion,       See claim element [74e].         [94f] the second       See claim element [74e].         network routing       second portion of         identifying an       address in a         second portion of       the packet         switched       network, the         second portion       not controlled by					
of the first         participant         attributes and at         least a portion of         the second         participant         identifier meet a         second network         classification         criterion,         [94f] the second         network routing         message         identifying an         address in a         second portion of         the packet         switched         network, the         second portion         not controlled by	routing message				
participant attributes and at least a portion of the second participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by					
attributes and at least a portion of the second participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by	of the first				
least a portion of the second participant identifier meet a second network classification criterion,       second network         [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by       See claim element [74e].					
the second participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by					
participant identifier meet a second network classification criterion, [94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by					
identifier meet a         second network         classification         criterion,         [94f] the second         network routing         message         identifying an         address in a         second portion of         the packet         switched         network, the         second portion         not controlled by					
second network         classification         criterion,         [94f] the second         network routing         message         identifying an         address in a         second portion of         the packet         switched         network, the         second portion         not controlled by	1 I				
classification criterion,See claim element [74e].[94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled bySee claim element [74e].					
criterion,[94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled bySee claim element [74e].					
[94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled bySee claim element [74e].					
network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by					
network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by	[94f] the second	See claim element [74e].			
message identifying an address in a second portion of the packet switched network, the second portion not controlled by					
identifying an address in a second portion of the packet switched network, the second portion not controlled by					
address in a second portion of the packet switched network, the second portion not controlled by	-				
the packet switched network, the second portion not controlled by					
switched network, the second portion not controlled by					
network, the second portion not controlled by	the packet				
second portion not controlled by					
not controlled by					
the entity.					
	the entity.				

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Claim	Accused Device/Instrumentality
96. The system	See claim 79.
of claim 94,	
wherein the packet switched	
network is	
accessed via an	
Internet service	
provider.	
98. The system of claim 94,	See claim 89.
wherein the	
second network	
classification	
criterion is	
satisfied when	
access to the second	
participant	
requires routing	
through a portion	
of the packet	
switched	
network operated by a	
communication	
service supplier.	
99. [99p] A non-	The Apple Messaging System include a non-transitory computer readable
transitory computer	medium comprising instructions that when executed cause a processor to perform a method of routing communications in a packet switched networ
readable medium	in which a first participant identifier is associated with a first participant
comprising	and a second participant identifier is associated with a second participant i
instructions that	a communication
when executed	
cause a processor	The Apple Messaging System uses processors with instructions in the davice running the Messages application and/or Apple services
to perform a method of	device running the Messages application and/or Apple servers.
routing	See claim element [74p].
communications	
in a packet	
switched	
network in which	
a first participant	

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Claim	Accused Device/Instrumentality			
identifier is				
associated with a				
first participant				
and a second				
participant				
identifier is				
associated with a				
second				
participant in a				
communication,				
the method				
comprising:				
comprising.				
[99a] after the	See claim element [74a].			
first participant				
has accessed the				
packet switched				
network to				
initiate the				
communication,				
using the first				
participant				
identifier to				
locate a first				
participant				
profile				
comprising a				
plurality of				
attributes				
associated with				
the first				
participant;				
participant,				
[99b] when at	See claim element [74b].			
least one of the	see chaim cloment [7 10].			
first participant				
attributes and at				
least a portion of				
the second				
participant				
identifier meet a				
first network				
classification				
criterion,				

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Claim	Accused Device/Instrumentality			
[99c] producing	See claim element [74c].			
a first network	See claim element [/4c].			
routing message				
for receipt by a				
controller, the				
first network				
routing message				
identifying an				
address in a first				
portion of the				
packet switched				
network, the				
address being				
associated with				
the second				
participant, the				
first portion				
being controlled				
by an entity; and				
[99d] when at	See claim element [74d].			
least one of the	see chann clement [/4d].			
first participant				
attributes and at				
least a portion of				
the second				
participant				
identifier meet a				
second network				
classification				
criterion,				
[00 a] a	See alaim alamant [74a]			
[99e] producing	See claim element [74e].			
a second network				
routing message for receipt by the				
controller, the				
second network				
routing message				
identifying an				
address in a				
second portion of				
the packet				

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Claim		Accused Device/	Instrumentality	
switched network, the				
second portion				
not controlled by the entity.				