

Chart 2 to Exhibit D

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8 UNITED STATES DISTRICT COURT

9 DISTRICT OF NEVADA

10 * * *

11 VOIP-PAL.COM, INC, a Nevada corporation,
12
13 Plaintiff,
14 v.
15 TWITTER, INC, a California corporation,
16
17 Defendants.

CASE NO.:

CHART 2

**ASSERTED CLAIMS AND
INFRINGEMENT CONDITIONS**

18 **CHART 2**

19
20 **CHART SUPPORTING ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS
21 CONCERNING U.S. PATENT NO. 9,179,005**

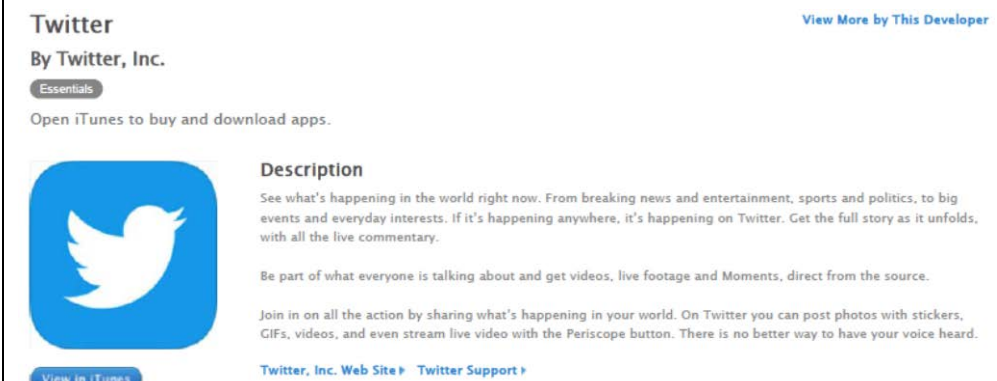
22 Twitter, Inc. (“Twitter”) operates and supports a messaging platform (the “Twitter System”) that includes desktop computers, laptops, tablets and mobile devices such as smartphones, software applications running on mobile devices, and servers and gateways communicating with such devices.
23
24 The Twitter System allows smartphone, tablet, laptop and desktop users to send messages that are
25 routed to other users. Twitter directly or indirectly (e.g., through its subsidiaries, affiliates, partners
26 and/or other intermediaries) practices certain claims of U.S. Patent 9,179,005 (the “’005 patent”) as
27 illustrated in the chart below.
28

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The Twitter System allows devices to initiate a communication between a caller (or a first participant), and a callee (or a second participant). In the case of messages referred to as “Mentions” (in which one or more Twitter users is identified in the message, such as in a “Reply Tweet” or a “Re-Tweet”) and “Direct Messages” (in which one or more specific Twitter users are identified as the recipient(s) of the message), a callee identifier (e.g., username) is part of the message. A profile that includes attributes associated with the caller is used as part of the process that classifies the communication using public and/or private network classification criteria. For example, the message can be delivered to the callee, or second participant, using the public SMS network and/or over a private network to an application running on a mobile device.

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 Twitter System.

| U.S. Patent No. 9,179,005 | |
|--|---|
| Claim | Accused Device/Instrumentality |
| <p>1. [1p] A process for producing a routing message for routing communications between a caller and a callee in a communication system, the process comprising:</p> | <p>The Twitter System produces a routing message for routing communications between a caller and a callee in a communication system.</p> <p>The Twitter System offers messaging services through its Web-based application, its mobile applications and through SMS messaging. A Twitter application is available for iOS and for Android, and Twitter also allows smartphones to send and receive messages using SMS messages. Twitter communications between a caller and a callee include Direct Messages (in which at least one Twitter user is identified as the recipient of the message), and Mentions (in which one or more Twitter users are identified in the message, which could be a “Re-Tweet” or a “Reply Tweet,” for example). Mentions (including Reply Tweets and Re-Tweets) may be delivered to the user identified in the message as a “notification”.</p>  |

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| U.S. Patent No. 9,179,005 | |
|---|--|
| Claim | Accused Device/Instrumentality |
| | <p style="text-align: center;">Notifications delivered as SMS text messages</p> <p>Once you have a phone number attached to your account, you may choose to receive notifications delivered as SMS text messages alerting you to activity around your account (like Retweets, mentions, likes, etc.). If you don't have a phone number attached to your account, you can find instructions here (/articles/110250).</p> <p>You can adjust your SMS notification settings:</p> <ul style="list-style-type: none"> • Logged in on the web at twitter.com • Via SMS text message <p style="text-align: center;">Choose between two types of notifications</p> <p>You can opt to have mobile notifications delivered in one of two ways:</p> <ul style="list-style-type: none"> • SMS text messages SMS instructions (/articles/20169920) Note: You'll need to add a phone number (/articles/110250) to your account to receive SMS text messages. • Push notifications iOS instructions Android instructions |
| [1a] using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes | <p>The Twitter System uses a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller.</p> <p>In the Twitter System, the caller identifier includes the Twitter username or other identifier of the caller. A Direct Message and a Mention can be initiated by the Twitter application and through an SMS application on a mobile device. A caller dialing profile including calling attributes includes information used in the classification of a communication, such as settings</p> |



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| U.S. Patent No. 9,179,005 | |
|---|--|
| Claim | Accused Device/Instrumentality |
| <p>associated with the caller;</p> | <p>stored on the mobile device and information stored on Twitter servers. Examples of calling attributes are: 1. the list of users that are currently following the caller, 2. the list of users that are blocked by the caller, and 3. the security and privacy settings for the caller including whether Tweets are protected.</p> |
| <p>[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,</p> | <p>The Twitter System determines if at least one of the calling attributes and at least a portion of a callee identifier associated with the callee meet private network classification criteria.</p> <p>The message includes a callee identifier, such as a Twitter username. The Twitter System allows messages to be sent over a private network to a Twitter application and using the public SMS network. Private network classification criteria represents sending the message over a private network to a Twitter application. The calling attributes are used to establish the private network classification criteria.</p> <p>One example of calling attributes being used to establish private network classification criteria is the use of the list of users that are currently following the caller. For example, if the callee is a follower of the caller and if the callee has configured their Twitter application to receive notifications, then the message will be sent to the callee over a private network.</p> <h2 style="text-align: center;">About Direct Messages</h2> <p style="text-align: center;">Direct Messages are the private side of Twitter. You can use Direct Messages to have private conversations with Twitter users about Tweets and other content.</p> <h3 style="text-align: center;">The basics</h3> <ul style="list-style-type: none"> • You can start a private conversation or create a group conversation with anyone who follows you. <p>Another example of calling attributes being used to establish private network classification criteria is the use of the list of users that are blocked by the caller. For example, if the callee is not blocked by the caller and the callee has configured their Twitter application to receive notifications, then the message will be sent to the callee over a private network.</p> <ul style="list-style-type: none"> • In both group and one-on-one conversations, you cannot be in a conversation with someone you block. <p>Another example of calling attributes being used to establish private network classification criteria is the use of the security and privacy settings for the caller. For example, if the caller has designated that their Tweets are public or if the caller has designated that their Tweets are protected and the callee is a</p> |

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| U.S. Patent No. 9,179,005 | |
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| Claim | Accused Device/Instrumentality |
| | <p>follower of the caller, and if the callee has configured their Twitter application to receive notifications, then the message will be sent to the callee over a private network.</p> <p>When you protect your Tweets:</p> <ul style="list-style-type: none"> • You'll receive a request when new people want to follow you, which you can approve or deny. Learn more (/articles/20169376). • Your Tweets, including permanent links to your Tweets (/articles/80586), will only be visible to your followers. • Your followers will not be able to use the Retweet button to Retweet or quote your Tweets. Learn more (/articles/77606#protectedtweets_notretweeted). • Protected Tweets will not appear in third-party search engines (like Google search or Bing). • Your protected Tweets will only be searchable on Twitter by you and your followers. • Replies you send to an account that isn't following you will not be seen by that account (because only your followers will see your Tweets). |
| <p>[1c] producing a private network routing message for receipt by a call controller, said private network routing message identifying an address, on the private network, associated with the callee; and</p> | <p>When at least one of the calling attributes and at least a portion of a callee identifier associated with the callee meet private network classification criteria, the Twitter System produces a private network routing message for receipt by a call controller which identifies an address on the private network associated with the callee.</p> <p>The Twitter application routing is based on push notifications to iOS or Android. Direct Messages and Mentions are sent, e.g., to the smartphone of the callee using cellular data or Wi-Fi networks, over a private network using TCP/IP.</p> <p>Push notifications delivered through the Twitter for iOS app: To view Tweet notifications from accounts you follow:</p> <ol style="list-style-type: none"> 1. From your profile, tap the gear icon  2. Select Settings. 3. Under Notifications, tap Mobile notifications. 4. Tap Tweets. <p>Push notifications delivered through the Twitter for Android app: To view Tweet notifications from accounts you follow:</p> <ol style="list-style-type: none"> 1. In the top menu, you will either see a navigation menu icon  or your profile icon. Tap whichever icon you have and select Settings. 2. Under Notifications, tap Mobile notifications. 3. Tap Tweets. |
| [1d] when at | The Twitter System determines if at least one of the calling attributes and at |

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| U.S. Patent No. 9,179,005 | |
|--|---|
| Claim | Accused Device/Instrumentality |
| <p>least one of said calling attributes and at least a portion of said callee identifier meet a public network classification criterion,</p> | <p>least a portion of the callee identifier meet a public network classification criterion.</p> <p>The Twitter System allows messages to be sent over a private network to a Twitter application and using the public SMS network. Public network classification criteria represents sending the message using the public SMS network. The calling attributes are used to establish the public network classification criterion.</p> <p>One example of calling attributes being used to establish public network classification criteria is the use of the list of users that are currently following the caller. For example, if the callee is a follower of the caller and the callee has configured their Twitter account to receive SMS notifications, then the message will be sent to the callee using the public SMS network.</p> <h2 style="text-align: center;">About Direct Messages</h2> <p>Direct Messages are the private side of Twitter. You can use Direct Messages to have private conversations with Twitter users about Tweets and other content.</p> <h3 style="text-align: center;">The basics</h3> <ul style="list-style-type: none"> • You can start a private conversation or create a group conversation with anyone who follows you. <p>Another example of calling attributes being used to establish public network classification criteria is the use of the list of users that are blocked by the caller. For example, if the callee is not blocked by the caller and the callee has configured their Twitter account to receive SMS notifications, then the message will be sent to the callee over the public SMS network.</p> <ul style="list-style-type: none"> • In both group and one-on-one conversations, you cannot be in a conversation with someone you block. <p>Another example of calling attributes being used to establish public network classification criteria is the use of the security and privacy settings for the caller. For example, if the caller has designated that their Tweets are public or if the caller has designated that their Tweets are protected and the callee is a follower of the caller, and if the callee has configured their Twitter account to receive SMS notifications, then the message will be sent to the callee over the public SMS network.</p> |

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| U.S. Patent No. 9,179,005 | | | | | | | | | | | | | | | | |
|---|--|-----------|------------------------|---|------------------------|-------|-----|--|--|--|--|----|--|-------|---|---|
| Claim | Accused Device/Instrumentality | | | | | | | | | | | | | | | |
| | <p>When you protect your Tweets:</p> <ul style="list-style-type: none"> • You'll receive a request when new people want to follow you, which you can approve or deny. Learn more (/articles/20169376). • Your Tweets, including permanent links to your Tweets (/articles/80586), will only be visible to your followers. • Your followers will not be able to use the Retweet button to Retweet or quote your Tweets. Learn more (/articles/77606#protectedtweets_notretweeted). • Protected Tweets will not appear in third-party search engines (like Google search or Bing). • Your protected Tweets will only be searchable on Twitter by you and your followers. • Replies you send to an account that isn't following you will not be seen by that account (because only your followers will see your Tweets). | | | | | | | | | | | | | | | |
| <p>[1e] producing a public network routing message for receipt by the call controller, said public network routing message identifying a gateway to the public network.</p> | <p>When at least one of the calling attributes and at least a portion of said callee identifier meet the public network classification criterion, the Twitter System produces a public network routing message for receipt by a call controller which identifies a gateway to the public network.</p> <p>If a message is sent using SMS, then the Twitter servers deliver the message using an SMS gateway.</p> <h3>Twitter's supported mobile carriers</h3> <table border="1"> <thead> <tr> <th>Country</th> <th>Mobile Operator</th> <th>ShortCode</th> <th>Supporting: SMS MMS</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>...</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>US</td> <td></td> <td>40404</td> <td>✓</td> <td>SMS support for all US carriers and Google Voice numbers; MMS Support for AT&T, Verizon, C Spire, US Cellular, MetroPCS</td> </tr> </tbody> </table> <h3>Notifications delivered as SMS text messages</h3> <p>Once you have a phone number attached to your account, you may choose to receive notifications delivered as SMS text messages alerting you to activity around your account (like Retweets, mentions, likes, etc.). If you don't have a phone number attached to your account, you can find instructions here (/articles/110250).</p> <p>You can adjust your SMS notification settings:</p> <ul style="list-style-type: none"> • Logged in on the web at twitter.com • Via SMS text message | Country | Mobile Operator | ShortCode | Supporting: SMS MMS | Notes | ... | | | | | US | | 40404 | ✓ | SMS support for all US carriers and Google Voice numbers; MMS Support for AT&T, Verizon, C Spire, US Cellular, MetroPCS |
| Country | Mobile Operator | ShortCode | Supporting: SMS MMS | Notes | | | | | | | | | | | | |
| ... | | | | | | | | | | | | | | | | |
| US | | 40404 | ✓ | SMS support for all US carriers and Google Voice numbers; MMS Support for AT&T, Verizon, C Spire, US Cellular, MetroPCS | | | | | | | | | | | | |
| <p>24. The process of claim 1,</p> | <p>The Twitter System causes the private network routing message or the public network routing message to be communicated to a call controller to effect</p> | | | | | | | | | | | | | | | |

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| U.S. Patent No. 9,179,005 | |
|---|--|
| Claim | Accused Device/Instrumentality |
| further comprising causing the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call. | <p>routing of the call.</p> <p>The Twitter System uses a call controller apparatus that includes one or more Twitter servers and/or the caller device.</p> |
| 25. A non-transitory computer readable medium encoded with codes for directing a processor to execute the method of claim 1. | <p>The Twitter System includes a non-transitory computer readable medium encoded with codes for directing a processor to execute the method of claim 1.</p> <p>The Twitter System uses various computing devices with processors and memories encoded with executable instruction codes for running the Twitter application and operating the Twitter servers and gateways.</p> <p>See claim elements [1p], [1a], [1b], [1c], [1d] and [1e].</p> |
| 26. [26p] A call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system, the apparatus comprising: | <p>The Twitter System includes a call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system.</p> <p>The Twitter System uses a call routing controller apparatus that includes one or more Twitter servers and/or the caller device.</p> <p>See claim element [1p].</p> |
| [26a] at least one processor operably configured to: | <p>The Twitter System include at least one processor.</p> <p>The Twitter System uses various computing devices with processors and memories encoded with executable instruction codes for running the Twitter</p> |

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| U.S. Patent No. 9,179,005 | |
|--|--|
| Claim | Accused Device/Instrumentality |
| | application and/or operating the Twitter servers/gateways. |
| [26b] use a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; | See claim element [1a]. |
| [26c] 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, | See claim element [1b]. |
| [26d] produce a private network routing message for receipt by a call controller, said private network routing message identifying an address, on the private network, associated with the callee; and | See claim element [1c]. |
| [26e] when at least one of said calling attributes | See claim element [1d]. |

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| U.S. Patent No. 9,179,005 | |
|---|---|
| Claim | Accused Device/Instrumentality |
| and at least a portion of said callee identifier meet a public network classification criterion, | |
| [26f] produce a public network routing message for receipt by the call controller, said public network routing message identifying a gateway to the public network. | See claim element [1e]. |
| 49. The apparatus of claim 26, wherein said at least one processor is 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 of the call. | <p>The Twitter System cause the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call.</p> <p>The Twitter System uses a call controller that includes one or more Twitter servers and/or the caller device.</p> |
| 50. [50p] A call routing controller apparatus for producing a | <p>The Twitter System include a call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system.</p> <p>The Twitter System uses a call routing controller apparatus that includes one</p> |

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| U.S. Patent No. 9,179,005 | |
|--|--|
| Claim | Accused Device/Instrumentality |
| routing message for routing communications between a caller and a callee in a communication system, the apparatus comprising: | or more Twitter servers and/or the caller device. 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; 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 private network classification criteria, | See claim element [1b]. |
| [50c] producing a private network routing message for receipt by a call controller, said private network routing message identifying an | See claim element [1c]. |

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| U.S. Patent No. 9,179,005 | |
|--|---------------------------------------|
| Claim | Accused Device/Instrumentality |
| address, on the private network, associated with the callee; and | |
| [50d] means for, when at least one of said calling attributes and at least a portion of said callee identifier meet a public network classification criterion, | See claim element [1d]. |
| [50e] producing a public network routing message for receipt by the call controller, said public network routing message identifying a gateway to the public network. | See claim element [1e]. |
| 73. The apparatus of claim 50, further comprising means for causing the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call. | See claim element [49]. |

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| U.S. Patent No. 9,179,005 | |
|--|--|
| Claim | Accused Device/Instrumentality |
| <p>74. [74p] A method of routing communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication, the method comprising:</p> | <p>The Twitter System routes communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication.</p> <p>The Twitter System offers messaging services through its Web-based application, its mobile applications and through SMS messaging. A Twitter application is available for iOS and for Android, and Twitter also allow smartphones to send and receive messages using SMS messages. Twitter communications between a first participant and a second participant include Direct Messages (in which at least one Twitter user is identified as the recipient of the message), and Mentions (in which one or more Twitter users are identified in the message, which could be a “Re-Tweet” or a “Reply Tweet,” for example). Mentions (including Reply Tweets and Re-Tweets) may be delivered to the user identified in the message as a “notification”.</p> <p>The first participant identifier includes the Twitter username or other identifier of the first participant. The message includes a second participant identifier, such as a Twitter username.</p>  |

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| U.S. Patent No. 9,179,005 | |
|--|---|
| Claim | Accused Device/Instrumentality |
| | <p style="text-align: center;">Notifications delivered as SMS text messages</p> <p>Once you have a phone number attached to your account, you may choose to receive notifications delivered as SMS text messages alerting you to activity around your account (like Retweets, mentions, likes, etc.). If you don't have a phone number attached to your account, you can find instructions here (/articles/110250).</p> <p>You can adjust your SMS notification settings:</p> <ul style="list-style-type: none"> • Logged in on the web at twitter.com • Via SMS text message <p style="text-align: center;">Choose between two types of notifications</p> <p>You can opt to have mobile notifications delivered in one of two ways:</p> <ul style="list-style-type: none"> • SMS text messages SMS instructions (/articles/20169920) Note: You'll need to add a phone number (/articles/110250) to your account to receive SMS text messages. • Push notifications iOS instructions Android instructions |
| [74a] after the 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; | <p>In the Twitter System, after the first participant has accessed the packet switched network to initiate the communication, uses the first participant identifier (e.g., Twitter username) to locate a first participant profile comprising a plurality of attributes associated with the first participant.</p> <p>A Direct Message and a Mention can be initiated by the Twitter application and through an SMS application on a mobile device. A first participant profile including first participant attributes includes information used in the classification of a communication, such as settings stored on the mobile device and information stored on Twitter servers. Examples of first participant attributes are: 1. the list of users that are currently following the first participant, 2. the list of users that are blocked by the first participant, and 3. the security and privacy settings for the first participant including whether Tweets are protected.</p> |
| [74b] when at | The Twitter System determines if at least one of the first participant attributes |



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| U.S. Patent No. 9,179,005 | |
|---|--|
| Claim | Accused Device/Instrumentality |
| <p>least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion,</p> | <p>and at least a portion of the second participant identifier meet a first network classification criterion.</p> <p>The Twitter System allows messages to be sent over a private network to a Twitter application and using the public SMS network. First network classification criteria represents routing the message over a private network to a Twitter application. The first participant attributes are used to establish the first network classification criterion.</p> <p>One example of first participant attributes being used to establish a first network classification criterion is the use of the list of users that are currently following the first participant. For example, if the second participant is a follower of the first participant and the second participant has configured their Twitter application to receive notifications, then the message will be sent to the second participant over a private network.</p> <h2 style="text-align: center;">About Direct Messages</h2> <p>Direct Messages are the private side of Twitter. You can use Direct Messages to have private conversations with Twitter users about Tweets and other content.</p> <h3 style="text-align: center;">The basics</h3> <ul style="list-style-type: none"> • You can start a private conversation or create a group conversation with anyone who follows you. <p>Another example of first participant attributes being used to establish a first network classification criteria is the use of the list of users that are blocked by the first participant. For example, if the second participant is not blocked by the first participant and the second participant has configured their Twitter application to receive notifications, then the message will be sent to the second participant over a private network.</p> <ul style="list-style-type: none"> • In both group and one-on-one conversations, you cannot be in a conversation with someone you block. <p>Another example of first participant attributes being used to establish a first network classification criteria is the use of the security and privacy settings for the first participant. For example, if the first participant has designated that their Tweets are public or if the first participant has designated that their Tweets are protected and the second participant is a follower of the first participant, and if the second participant has configured their Twitter application to receive notifications, then the message will be sent to the second participant over a private network.</p> |

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| U.S. Patent No. 9,179,005 | |
|--|---|
| Claim | Accused Device/Instrumentality |
| | <p>When you protect your Tweets:</p> <ul style="list-style-type: none"> • You'll receive a request when new people want to follow you, which you can approve or deny. Learn more (/articles/20169376). • Your Tweets, including permanent links to your Tweets (/articles/80586), will only be visible to your followers. • Your followers will not be able to use the Retweet button to Retweet or quote your Tweets. Learn more (/articles/77606#protectedtweets_notretweeted). • Protected Tweets will not appear in third-party search engines (like Google search or Bing). • Your protected Tweets will only be searchable on Twitter by you and your followers. • Replies you send to an account that isn't following you will not be seen by that account (because only your followers will see your Tweets). |
| <p>[74c] producing a first network 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</p> | <p>When at least one of the first participant attributes and at least a portion of the second participant identifier meet the first network classification criterion, the Twitter System produces a first network routing message for 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.</p> <p>The Twitter application protocol is based on a push notifications to iOS or Android. Reply Tweets and Direct Messages are sent, e.g., to the smartphone of the second participant using cellular data or Wi-Fi networks, over a private network using TCP/IP.</p> <p>Push notifications delivered through the Twitter for iOS app: To view Tweet notifications from accounts you follow:</p> <ol style="list-style-type: none"> 1. From your profile, tap the gear icon  2. Select Settings. 3. Under Notifications, tap Mobile notifications. 4. Tap Tweets. <p>Push notifications delivered through the Twitter for Android app: To view Tweet notifications from accounts you follow:</p> <ol style="list-style-type: none"> 1. In the top menu, you will either see a navigation menu icon  or your profile icon. Tap whichever icon you have and select Settings. 2. Under Notifications, tap Mobile notifications. 3. Tap Tweets. |
| <p>[74d] when at least one of the first participant attributes and at</p> | <p>The Twitter System determines if at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion.</p> |

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| U.S. Patent No. 9,179,005 | |
|---|---|
| Claim | Accused Device/Instrumentality |
| <p>least a portion of the second participant identifier meet a second network classification criterion,</p> | <p>The Twitter System allows messages to be sent over a private network to a Twitter application and using the public SMS network. Second network classification criteria represents routing the message using the public SMS network. The first participant attributes are used to establish the second network classification criterion.</p> <p>One example of first participant attributes being used to establish a second network classification criterion is the use of the list of users that are currently following the first participant. For example, if the second participant is a follower of the first participant and the second participant has configured their Twitter account to receive SMS notifications, then the message will be sent to the second participant using the public SMS network.</p> <h2 style="text-align: center;">About Direct Messages</h2> <p>Direct Messages are the private side of Twitter. You can use Direct Messages to have private conversations with Twitter users about Tweets and other content.</p> <h3 style="text-align: center;">The basics</h3> <ul style="list-style-type: none"> • You can start a private conversation or create a group conversation with anyone who follows you. <p>Another example of first participant attributes being used to establish a second network classification criterion is the use of the list of users that are blocked by the first participant. For example, if the second participant is not blocked by the first participant and the second participant has configured their Twitter account to receive SMS notifications, then the message will be sent to the second participant over the public SMS network.</p> <ul style="list-style-type: none"> • In both group and one-on-one conversations, you cannot be in a conversation with someone you block. <p>Another example of first participant attributes being used to establish a second network classification criteria is the use of the security and privacy settings for the first participant. For example, if the first participant has designated that their Tweets are public or if the first participant has designated that their Tweets are protected and the second participant is a follower of the first participant, and if the second participant has configured their Twitter account to receive SMS notifications, then the message will be sent to the second participant over the public SMS network.</p> |

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| U.S. Patent No. 9,179,005 | | | | | | | | | | | | | | | | | | | | | |
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| Claim | Accused Device/Instrumentality | | | | | | | | | | | | | | | | | | | | |
| | <p>When you protect your Tweets:</p> <ul style="list-style-type: none"> • You'll receive a request when new people want to follow you, which you can approve or deny. Learn more (/articles/20169376). • Your Tweets, including permanent links to your Tweets (/articles/80586), will only be visible to your followers. • Your followers will not be able to use the Retweet button to Retweet or quote your Tweets. Learn more (/articles/77606#protectedtweets_notretweeted). • Protected Tweets will not appear in third-party search engines (like Google search or Bing). • Your protected Tweets will only be searchable on Twitter by you and your followers. • Replies you send to an account that isn't following you will not be seen by that account (because only your followers will see your Tweets). | | | | | | | | | | | | | | | | | | | | |
| <p>[74e] producing 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 switched network, the second portion not controlled by the entity.</p> | <p>When at least one of the first participant attributes and at least a portion of the second participant identifier meet the second network classification criterion, the Twitter System produces a second network routing message for receipt by the controller which identifies an address in a second portion of the packet switched network, which is not controlled by the entity.</p> <p>If a message is sent using SMS, the Twitter servers deliver the message using an SMS gateway.</p> <h3 style="text-align: center;">Twitter's supported mobile carriers</h3> <table border="1"> <thead> <tr> <th rowspan="2">Country</th> <th rowspan="2">Mobile Operator</th> <th rowspan="2">ShortCode</th> <th colspan="2">Supporting:</th> <th rowspan="2">Notes</th> </tr> <tr> <th>SMS</th> <th>MMS</th> </tr> </thead> <tbody> <tr> <td>...</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>US</td> <td></td> <td>40404</td> <td style="text-align: center;">✓</td> <td></td> <td>SMS support for all US carriers and Google Voice numbers; MMS Support for AT&T, Verizon, C Spire, US Cellular, MetroPCS</td> </tr> </tbody> </table> <h3 style="text-align: center;">Notifications delivered as SMS text messages</h3> <p>Once you have a phone number attached to your account, you may choose to receive notifications delivered as SMS text messages alerting you to activity around your account (like Retweets, mentions, likes, etc.). If you don't have a phone number attached to your account, you can find instructions here (/articles/110250).</p> <p>You can adjust your SMS notification settings:</p> <ul style="list-style-type: none"> • Logged in on the web at twitter.com • Via SMS text message | Country | Mobile Operator | ShortCode | Supporting: | | Notes | SMS | MMS | ... | | | | | | US | | 40404 | ✓ | | SMS support for all US carriers and Google Voice numbers; MMS Support for AT&T, Verizon, C Spire, US Cellular, MetroPCS |
| Country | Mobile Operator | | | | ShortCode | Supporting: | | Notes | | | | | | | | | | | | | |
| | | SMS | MMS | | | | | | | | | | | | | | | | | | |
| ... | | | | | | | | | | | | | | | | | | | | | |
| US | | 40404 | ✓ | | SMS support for all US carriers and Google Voice numbers; MMS Support for AT&T, Verizon, C Spire, US Cellular, MetroPCS | | | | | | | | | | | | | | | | |

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| U.S. Patent No. 9,179,005 | |
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| Claim | Accused Device/Instrumentality |
| 75. The method of claim 74, wherein the packet switched network comprises the Internet. | In the Twitter System, the packet switched network includes the Internet. |
| 76. The method of claim 74, wherein the first participant identifier comprises a first participant telephone number or username. | In the Twitter System, the first participant identifier comprises a first 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 Twitter 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 Twitter System, the packet switched network is accessed via an Internet service provider. |
| 83. The method of claim 74, wherein the first | In the Twitter System, the first network classification criterion is satisfied when an address associated with the first participant and the address associated with the second participant are both in the first portion of the |

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| U.S. Patent No. 9,179,005 | |
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| Claim | Accused Device/Instrumentality |
| network classification criterion is satisfied when an address associated with the first participant and the address associated with the second participant are both in the first portion of the packet switched network. | packet switched network (e.g., the Internet). |
| 84. The method of claim 74, wherein the address in the first portion is accessible through the first participant's Internet service provider. | In the Twitter System, the address in the first portion is accessible through the first participant's Internet service provider. |
| 88. The method of claim 74, wherein the entity is an entity supplying communication services for the first portion. | In the Twitter System, the entity is an entity supplying communication services for the first portion. |
| 89. The method of claim 74, wherein the second network classification criterion is satisfied when | In the Twitter System, 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. |

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| Claim | Accused Device/Instrumentality |
| access to the second participant requires routing through a portion of the packet switched network operated by a communication service supplier. | |
| 92. The method of claim 74, wherein the address in the second portion of the packet switched network comprises an address accessed by a communication service supplier. | In the Twitter System, the address in the second portion of the packet switched network comprises an address accessed by a communication service supplier. |
| 94. [94p] A system for routing communications in a packet switched 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 Twitter System routes communications in a packet switched 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. See claim element [74p]. |

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| Claim | Accused Device/Instrumentality |
| participant identifier, the system comprising: | |
| [94a] a controller comprising: a processor operably configured to access a memory, wherein the processor is configured to: | <p>The Twitter System includes a controller comprising a processor operably configured to access a memory.</p> <p>The Twitter System uses a controller with at least one processor, memory and processor-executable instructions that includes the devices running the Twitter application and/or the Twitter servers/gateways.</p> |
| [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 | See claim element [74b]. |

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| U.S. Patent No. 9,179,005 | |
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| Claim | Accused Device/Instrumentality |
| participant attributes and at least a portion of the second participant identifier meet a first network classification criterion, | |
| [94d] 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 | See claim element [74c]. |
| [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 | See claim element [74e]. |

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| U.S. Patent No. 9,179,005 | |
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| Claim | Accused Device/Instrumentality |
| identifying an address in a second portion of the packet switched network, the second portion not controlled by the entity. | |
| 96. The system of claim 94, wherein the packet switched network is accessed via an Internet service provider. | See claim 79. |
| 98. The system of claim 94, 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. | See claim 89. |
| 99. [99p] A non-transitory computer readable medium comprising instructions that | The Twitter System includes a non-transitory computer readable medium comprising instructions that when executed cause a processor to perform a method of routing communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication. |

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| U.S. Patent No. 9,179,005 | |
|---|---|
| Claim | Accused Device/Instrumentality |
| when executed cause a processor to perform a method of routing communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication, the method comprising: | The Twitter System uses processors with executable instructions in the devices running the Twitter application and/or the Twitter servers/gateways, to cause the method of routing communications in a packet switched network. See claim element [74p]. |
| [99a] after the 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; | See claim element [74a]. |
| [99b] when at | See claim element [74b]. |

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| U.S. Patent No. 9,179,005 | |
|---|--------------------------------|
| Claim | Accused Device/Instrumentality |
| least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion, | |
| [99c] producing a first network 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 | See claim element [74c]. |
| [99d] 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]. |
| [99e] producing | See claim element [74e]. |

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| U.S. Patent No. 9,179,005 | |
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| Claim | Accused Device/Instrumentality |
| 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 switched network, the second portion not controlled by the entity. | |