

(12) United States Patent Chipchase et al.	(10) Patent No.: US 9,344,133 B2 (45) Date of Patent: May 17, 2016
(54) CUSTOMISATION OF AN ELECTRONIC DEVICE	H04W 4/023; H04W 4/18; H04W 4/20; H04W 12/02; H04W 8/26; H04W 4/001; H04W 4/021; H04W 4/022; H04W 4/027; H04L 67/18; H04L 69/329; H04L 29/06; H04L 61/06
(75) Inventors: Jan Chipchase, Tokyo (JP); Raphael Grignani, Santa Monica, CA (US)	USPC 455/456.3, 456.1, 414.1, 456.2, 456.5, 455/457, 404.2, 435.1, 404.1, 412.2, 452.1, 455/466, 519, 521, 418; 709/219; 379/15.03; 370/352, 241, 338
(73) Assignee: NOKIA TECHNOLOGIES OY, Espoo (FI)	See application file for complete search history.
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 3067 days.	(56) References Cited
(21) Appl. No.: 10/562,566	U.S. PATENT DOCUMENTS
(22) PCT Filed: Jun. 28, 2004	6,085,098 A 7/2000 Mson et al. 6,233,448 B1 5/2001 Alperovich et al. (Continued)
(86) PCT No.: PCT/IB2004/002136 § 371 (c)(1), (2), (4) Date: Mar. 6, 2006	FOREIGN PATENT DOCUMENTS
(87) PCT Pub. No.: WO2005/002187 PCT Pub. Date: Jan. 6, 2005	CN 1277690 A 12/2000 EP 1073298 3/2001 (Continued)
(65) Prior Publication Data US 2006/0148522 A1 Jul. 6, 2006	OTHER PUBLICATIONS
(30) Foreign Application Priority Data Jun. 18, 2004 (GB) 0413683.4	Japanese Office Action, Apr. 21, 2008, a total of 5 pages. (Continued)
(51) Int. Cl. H04W 24/00 (2009.01) H04B 1/3827 (2015.01) (Continued)	Primary Examiner — Fred Casca (74) <i>Attorney, Agent, or Firm</i> — Squire Patton Boggs (US) LLP
(52) U.S. Cl. CPC H04B 1/3833 (2013.01); H04L 67/04 (2013.01); H04L 67/18 (2013.01); H04L 67/34 (2013.01); H04M 1/72572 (2013.01); (Continued)	(57) ABSTRACT The operation of a mobile electronic device is controlled at least partially in accordance with operating characteristics adopted while the phone is at a first location. The operation of a mobile electronic device is controlled at least partially in accordance with a theme that defines how an electronic device responds to user input.
(58) Field of Classification Search CPC H04W 4/02; H04W 64/00; H04W 4/025;	21 Claims, 3 Drawing Sheets

1. An apparatus, comprising:

at least one processor and at least one memory including computer program code, the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to

store a set of tags and for each tag, store an associated network address, wherein each tag corresponds to a service and wherein the associated network address corresponds to a service provider of the service,

provide a user interface that enables a user to select one of the tags and cause the apparatus to initiate a connection to the network address associated with the tag,

estimate the location of the apparatus,

communicate with the network to request that the network transmit a communication that automatically alters the network address associated with a tag in dependence on the estimated location, and

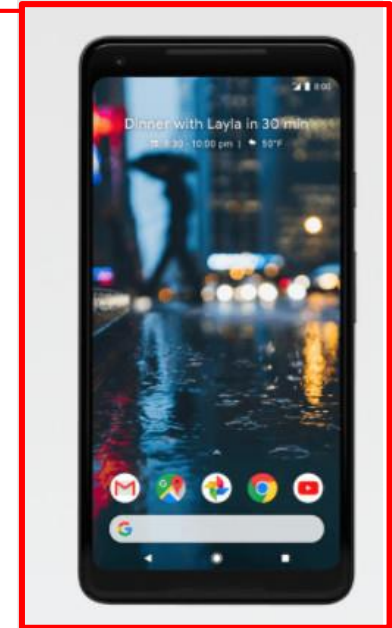
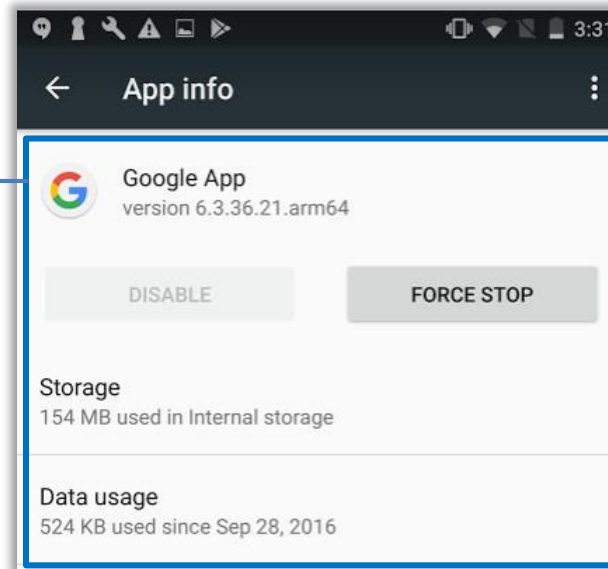
automatically alter the network address associated with the tag in response to the communication received from the network.

<https://www.google.com/patents/US9344133>

US 9,344,133 Claim 1

Exemplary of:
Android Smartphones

1. An apparatus, comprising:
at least one processor
and at least one memory including computer program code, the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to store a set of tags and for each tag, store an associated network address, wherein each tag corresponds to a service and wherein the associated network address corresponds to a service provider of the service, provide a user interface that enables a user to select one of the tags and cause the apparatus to initiate a connection to the network address associated with the tag, estimate the location of the apparatus, communicate with the network to request that the network transmit a communication that automatically alters the network address associated with a tag in dependence on the estimated location, and automatically alter the network address associated with the tag in response to the communication received from the network.



- The absolute minimum requirements for Android were originally a 200 MHz processor, 32 MB of RAM, and 32 MB of storage.
- Out of the box, Android is incompatible with ARMv4 or lower, ARMv5 or higher is needed to run native code without modifications.
- Android 4.4+ requires an ARMv7 processor. Custom versions have been made for ARMv6 however.

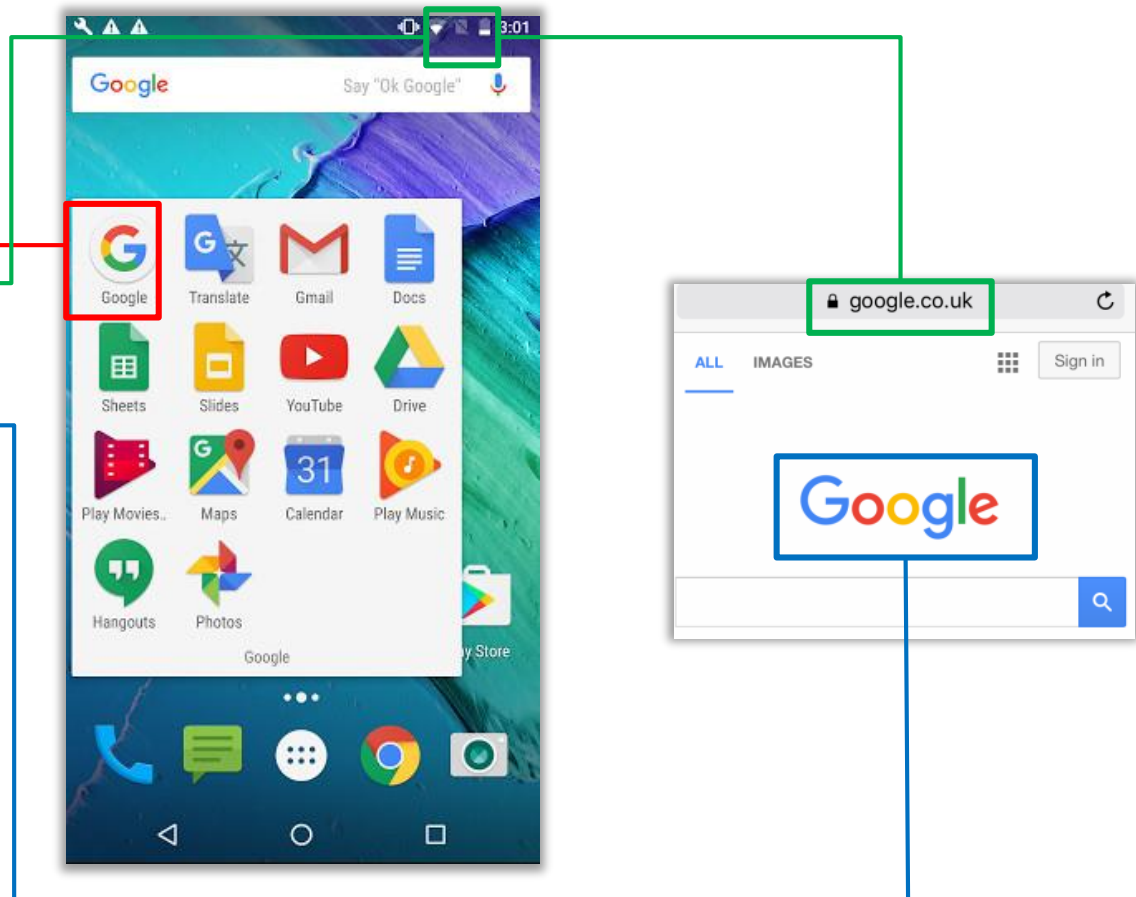
Source: <https://android.stackexchange.com/questions/34958/what-are-the-minimum-hardware-specifications-for-android>

Comment: Android smartphones have a processor and memory including computer program code for the Google App.

US 9,344,133 Claim 1

Exemplary of:
Android Smartphones

1. An apparatus, comprising:
at least one processor and at least one memory including computer program code, the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to **store a set of tags and for each tag, store an associated network address, wherein each tag corresponds to a service and wherein the associated network address corresponds to a service provider of the service,**
provide a user interface that enables a user to select one of the tags and cause the apparatus to initiate a connection to the network address associated with the tag,
estimate the location of the apparatus, communicate with the network to request that the network transmit a communication that automatically alters the network address associated with a tag in dependence on the estimated location, and automatically alter the network address associated with the tag in response to the communication received from the network.

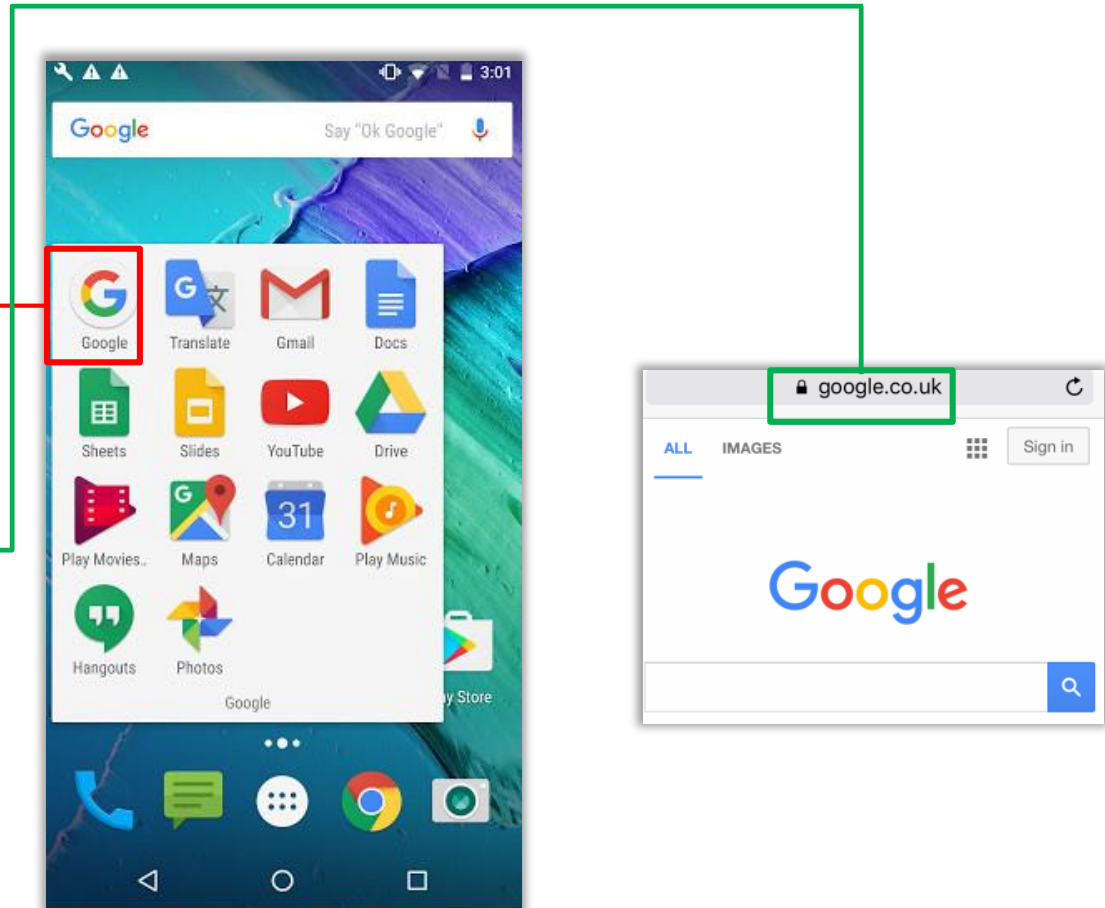


Comment: The Google App is a tag corresponding to the Google service. A network address, e.g., google.co.uk is associated with the provider of the service.

US 9,344,133 Claim 1

Exemplary of:
Android Smartphones

1. An apparatus, comprising:
at least one processor and at least one memory including computer program code, the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to store a set of tags and for each tag, store an associated network address, wherein each tag corresponds to a service and wherein the associated network address corresponds to a service provider of the service,
provide a user interface that enables a user to select one of the tags and **cause the apparatus to initiate a connection to the network address associated with the tag,**
estimate the location of the apparatus, communicate with the network to request that the network transmit a communication that automatically alters the network address associated with a tag in dependence on the estimated location, and automatically alter the network address associated with the tag in response to the communication received from the network.

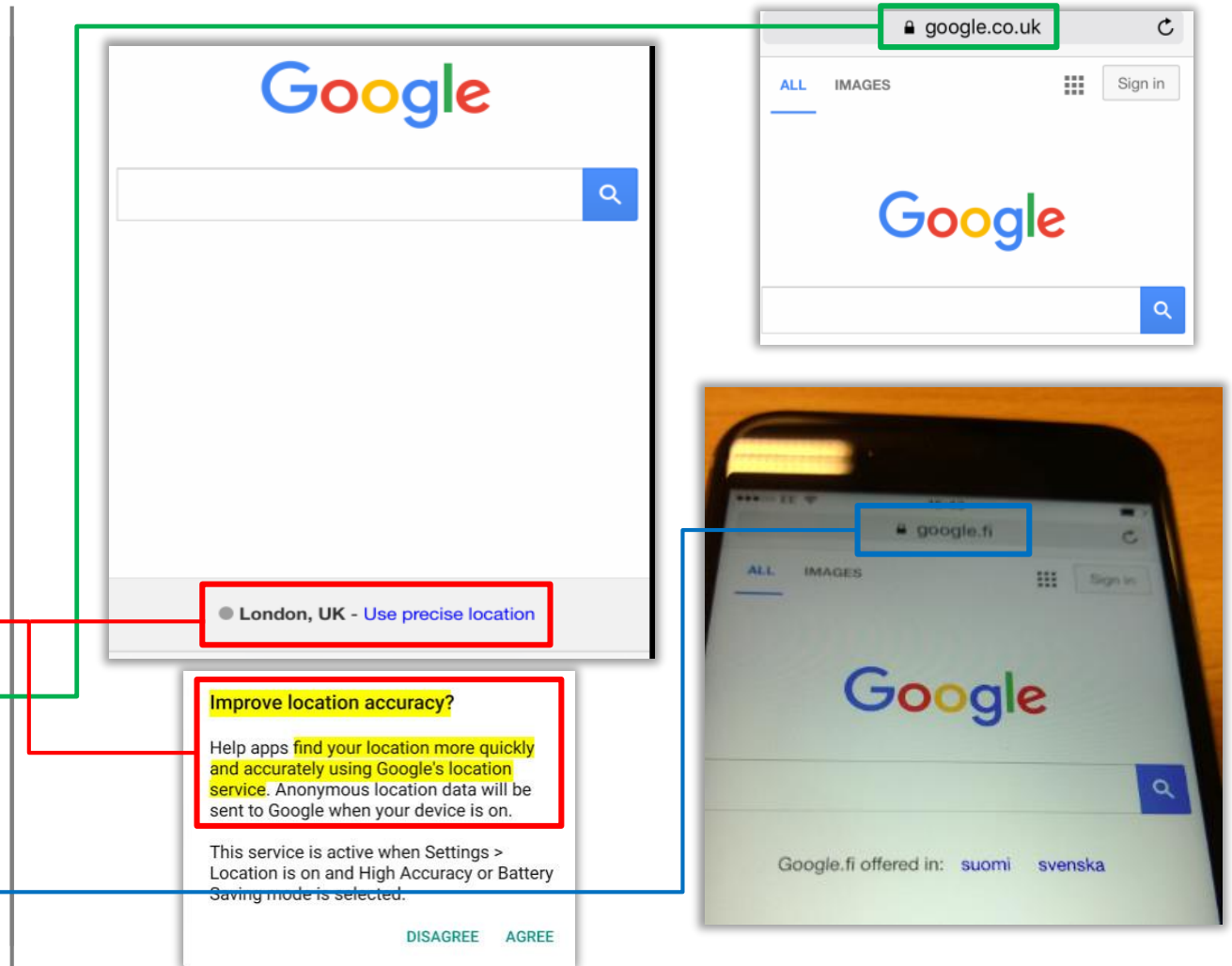


Comment: The Android Smartphone provides a user interface to select one of the tags, i.e., Google App, and initiate a connection to google.co.uk.

US 9,344,133 Claim 1

Exemplary of:
Android Smartphones

1. An apparatus, comprising:
at least one processor and at least one memory including computer program code, the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to store a set of tags and for each tag, store an associated network address, wherein each tag corresponds to a service and wherein the associated network address corresponds to a service provider of the service, provide a user interface that enables a user to select one of the tags and cause the apparatus to initiate a connection to the network address associated with the tag, **estimate the location of the apparatus,** **communicate with the network to request that the network transmit a communication that automatically alters the network address associated with a tag in dependence on the estimated location,** and **automatically alter the network address associated with the tag in response to the communication received from the network.**



Comment: The Android Smartphone uses GPS to estimate the location of the device. The network address, i.e., google.co.uk, is automatically altered. i.e., google.fi, when the location changes to Finland.