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EXHIBIT D

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US009820123B2

(12) United States Patent

Beyer, Jr. et al.

(54) METHOD TO PROVIDE AD HOC AND PASSWORD PROTECTED DIGITAL AND VOICE NETWORKS

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 (US); Christopher R. Rice, Redmond, WA (US)
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

- (21) Appl. No.: 15/255,046
- (22) Filed: Sep. 1, 2016

(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 14/633,804, filed on Feb. 27, 2015, now Pat. No. 9,445,251, which is a (Continued)

(51)	Int. Cl.	
	H04W 4/22	(2009.01)
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965

(45) **Date of Patent:** *Nov. 14, 2017

- (58) **Field of Classification Search** CPC H04W 4/02 See application file for complete search history.
- (56) **References Cited**

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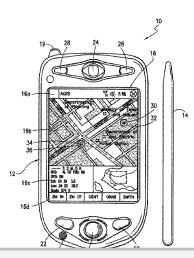
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Primary Examiner — Omoniyi Obayanju (74) Attorney, Agent, or Firm — Goodwin Procter LLP

(57) **ABSTRACT**

A method and system includes the ability for individuals to set up an ad hoc digital and voice network easily and rapidly to allow users to coordinate their activities by eliminating the need for pre-entry of data into a web or identifying others by name, phone numbers or email. This method is especially useful for police, fire fighters, military, first responders or other emergency situations for coordinating different organizations at the scene of a disaster to elevate conventional communication problems either up and down the chain of command or cross communication between different emergency units. The method and system provides that the users are only required to enter a specific Server IP address and an ad hoc event name, a password and perhaps the name of the particular unit.

48 Claims, 7 Drawing Sheets



US 9,820,123 B2

Related U.S. Application Data

continuation of application No. 14/529,978, filed on Oct. 31, 2014, now Pat. No. 9,467,838, which is a continuation-in-part of application No. 14/027,410, filed on Sep. 16, 2013, now Pat. No. 8,880,042, which is a continuation of application No. 13/751,453, filed on Jan. 28, 2013, now Pat. No. 8,538,393, which is a continuation-in-part of application No. 12/761,533, filed on Apr. 16, 2010, now Pat. No. 8,364,129, which is a continuation-in-part of application No. 11/615, 472, filed on Dec. 22, 2006, now Pat. No. 8,126,441, which is a continuation-in-part of application No. 11/308,648, filed on Apr. 17, 2006, now Pat. No. 7,630,724, which is a continuation-in-part of application No. 10/711,490, filed on Sep. 21, 2004, now Pat. No. 7,031,728.

(51) Int. Cl.

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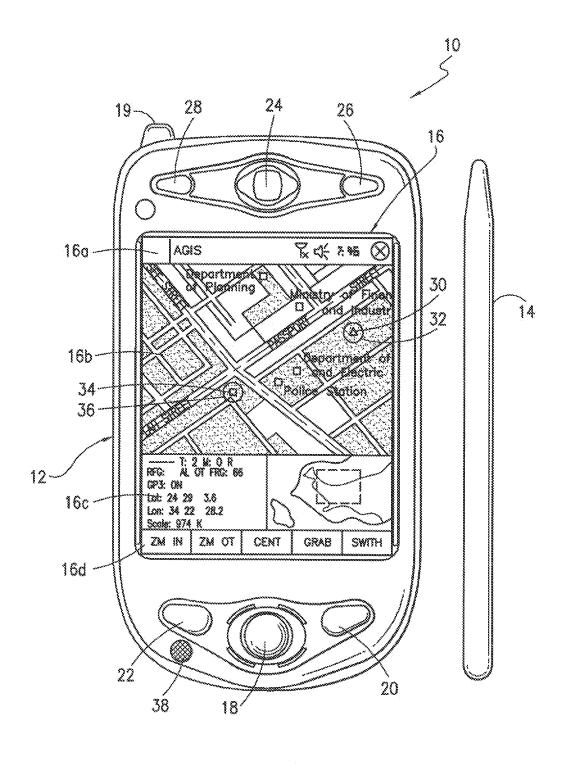
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<u>FIG. 1</u>

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