

EXHIBIT I



(12) **United States Patent**
Beyer, Jr. et al.

(10) **Patent No.:** **US 10,341,838 B2**
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(54) **METHOD TO PROVIDE AD HOC AND PASSWORD PROTECTED DIGITAL AND VOICE NETWORKS**

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

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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.

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This patent is subject to a terminal disclaimer.

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U.S. Appl. No. 15/722,660, Method to Provide Ad Hoc and Password Protected Digital and Voice Networks, filed Oct. 2, 2017.

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Primary Examiner — Omoniyi Obayanju

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(57) **ABSTRACT**

Related U.S. Application Data

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.

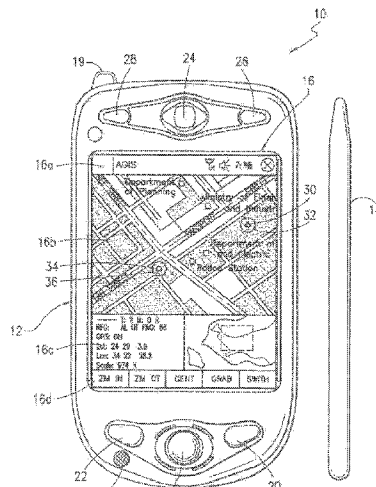
(63) Continuation of application No. 15/722,660, filed on Oct. 2, 2017, now Pat. No. 10,299,100, which is a (Continued)

(51) **Int. Cl.**
H04W 4/00 (2018.01)
H04W 4/90 (2018.01)

(Continued)

(52) **U.S. Cl.**
CPC **H04W 4/90** (2018.02); **G01S 19/17** (2013.01); **G06F 3/0482** (2013.01);
(Continued)

26 Claims, 7 Drawing Sheets



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Related U.S. Application Data

continuation of application No. 15/469,469, filed on Mar. 24, 2017, now Pat. No. 10,292,033, which is a continuation of application No. 15/287,638, filed on Oct. 6, 2016, now Pat. No. 9,706,381, which is a 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.**
 - H04M 1/725* (2006.01)
 - H04W 68/00* (2009.01)
 - H04W 4/02* (2018.01)
 - H04W 76/50* (2018.01)
 - H04W 76/11* (2018.01)
 - H04M 1/2745* (2006.01)
 - H04W 4/08* (2009.01)
 - H04W 64/00* (2009.01)
 - H04W 84/18* (2009.01)
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 - G06F 3/0482* (2013.01)
 - G06F 3/0484* (2013.01)
 - H04L 29/06* (2006.01)
 - H04L 29/08* (2006.01)
 - H04W 4/021* (2018.01)
 - H04L 29/12* (2006.01)
 - H04M 7/00* (2006.01)
 - H04W 12/06* (2009.01)
 - H04W 68/04* (2009.01)
 - G01S 19/17* (2010.01)
 - H04M 3/56* (2006.01)
 - H04W 4/14* (2009.01)
 - H04W 76/15* (2018.01)
 - H04W 4/10* (2009.01)
 - H04W 76/45* (2018.01)
 - H04W 12/04* (2009.01)
 - H04W 84/04* (2009.01)

- (52) **U.S. Cl.**
 - CPC *G06F 3/04842* (2013.01); *H04L 61/605* (2013.01); *H04L 63/065* (2013.01); *H04L 63/083* (2013.01); *H04L 63/104* (2013.01); *H04L 67/18* (2013.01); *H04M 1/27455* (2013.01); *H04M 1/72519* (2013.01); *H04M 1/72536* (2013.01); *H04M 1/72547* (2013.01); *H04M 1/72572* (2013.01); *H04M 1/72583* (2013.01); *H04M 3/56* (2013.01); *H04M 7/006* (2013.01); *H04W 4/02* (2013.01); *H04W 4/021* (2013.01); *H04W 4/023* (2013.01); *H04W 4/026* (2013.01); *H04W 4/027* (2013.01); *H04W 4/08* (2013.01);

12/08 (2013.01); *H04W 64/00* (2013.01); *H04W 68/00* (2013.01); *H04W 68/04* (2013.01); *H04W 76/11* (2018.02); *H04W 76/15* (2018.02); *H04W 76/50* (2018.02); *H04W 84/18* (2013.01); *H04L 61/2007* (2013.01); *H04M 1/72525* (2013.01); *H04M 2250/10* (2013.01); *H04M 2250/22* (2013.01); *H04M 2250/62* (2013.01); *H04W 4/10* (2013.01); *H04W 12/04* (2013.01); *H04W 76/45* (2018.02); *H04W 84/042* (2013.01)

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