



US009414214B2

(12) **United States Patent**  
**Hobby et al.**

(10) **Patent No.:** **US 9,414,214 B2**

(45) **Date of Patent:** **\*Aug. 9, 2016**

(54) **EMERGENCY RADIO COMMUNICATIONS SYSTEM INCORPORATING INTEGRAL PUBLIC SAFETY RADIO BRIDGING CAPABILITY**

(52) **U.S. Cl.**  
CPC ..... *H04W 4/22* (2013.01); *H04W 76/007* (2013.01)

(58) **Field of Classification Search**  
CPC ..... H04W 4/22; H04W 76/007; H04W 92/02  
USPC ..... 455/404.1  
See application file for complete search history.

(71) Applicant: **SAFECOM 911, Inc.**, Centennial, CO (US)

(72) Inventors: **Patrick L. Hobby**, Highlands Ranch, CO (US); **David E. Petty**, Loveland, CO (US)

(73) Assignee: **SAFECOM 911, INC.**, Centennial, CO (US)

(\*) 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.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,103,857 A 12/1937 Lindsey  
3,401,234 A 9/1968 Heald

(Continued)

OTHER PUBLICATIONS

“Guide to Radio Communications Interoperability Strategies and Products,” AGILE Report No. TE-02-02, Mar. 24, 2003, 43 pages.

(Continued)

*Primary Examiner* — Michael Neff

(74) *Attorney, Agent, or Firm* — Sheridan Ross P.C.

(21) Appl. No.: **14/594,993**

(22) Filed: **Jan. 12, 2015**

(65) **Prior Publication Data**

US 2015/0147996 A1 May 28, 2015

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 12/901,993, filed on Oct. 11, 2010, now Pat. No. 8,934,934, which is a continuation-in-part of application No. 12/141,849, filed on Jun. 18, 2008, now Pat. No. 7,813,750, which is a continuation-in-part of application No. 11/682,231, filed on Mar. 5, 2007, now abandoned.

(51) **Int. Cl.**  
*H04W 4/22* (2009.01)  
*H04W 76/00* (2009.01)

(57) **ABSTRACT**

A communication system and method is provided for handling emergency situations wherein complex public safety radio systems can be used to directly communicate with normally incompatible radio systems used by organizations such as schools, hospital, and other facilities. The system includes a radio communication bridge that is selectively activated by emergency personnel to contact selected organizations. The bridge is activated via a TCP/IP command sent from an organization having activation privileges to the selected communication endpoints. Computer software or firmware installed at various communication endpoints, emergency responder locations, and at an emergency call center is used to facilitate functionality of the system to include emergency notifications, dissemination of information associated with a particular emergency, and the status of the system to include activation and deactivation of the radio bridge.

**15 Claims, 16 Drawing Sheets**

