



US007830045B1

(12) **United States Patent**
Boulger

(10) **Patent No.:** **US 7,830,045 B1**

(45) **Date of Patent:** **Nov. 9, 2010**

(54) **RAPID DISCONNECT SYSTEM FOR CELLULAR TOWER TRANSMISSIONS**

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* cited by examiner

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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 49 days.

(57) **ABSTRACT**

A safety disconnect system for a cellular antenna array on a support structure includes an enclosure mountable to a support structure. A fixed connector secured within the enclosure has contacts connected to conductors of at least a first digital data and control cable. A moveable connector within the enclosure includes corresponding contacts connected to conductors of a second digital data and control cable. The two connectors are selectively mated to engage the contacts of the two connectors. When the connectors are mated, transceivers within a base transceiver station (BTS) receive signals from a base station controller (BSC) and transmit RF energy via an array of antennas. A gripping handle secured to the moveable connector has a size and configuration selected to be grasped by a gloved hand to move the moveable connector away from the fixed connector in a rapid and safe manner to disable further transmissions by the transceivers.

(21) Appl. No.: **12/413,501**

(22) Filed: **Mar. 27, 2009**

(51) **Int. Cl.**
H02H 11/00 (2006.01)

(52) **U.S. Cl.** **307/326**

(58) **Field of Classification Search** **307/326**
See application file for complete search history.

(56) **References Cited**

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5 Claims, 8 Drawing Sheets

