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**Damnjanovic et al.**

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(54) **CONTENTION-BASED RANDOM ACCESS IN UNLICENSED SPECTRUM**

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CPC ..... **H04W 74/085** (2013.01); **H04L 27/2602** (2013.01); **H04W 28/0278** (2013.01); **H04W 64/00** (2013.01); **H04W 74/0833** (2013.01)

(58) **Field of Classification Search**  
None

See application file for complete search history.

(57) **ABSTRACT**

The disclosure provides a method and system for requesting access to resources for uplink communications in unlicensed spectrum. In particular, a user equipment (UE) may detect one or more of a first type of data or a second type of data to be transmitted to a base station (BS). The UE may then determine if a first type of physical random access channel (PRACH) resource is available for transmitting one or more of the first type of data or the second type of data to the BS. If the first type of PRACH resource is available, then the UE may transmit one or more of the first type of data or the second type of data using the first type of PRACH resource. If the first type of PRACH resource is not available, then the UE may transmit the second type of data using a second type of PRACH resource.

**30 Claims, 10 Drawing Sheets**

