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Ranta-Aho et al.

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(54) **COMPRESSED MODE FOR UMTS
ENHANCED DEDICATED CHANNEL FOR
CIRCUIT SWITCHED VOICE SERVICES**

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3GPP TR 25.702, 3rd Generation Partnership Project; Technical
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(57) **ABSTRACT**

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The present invention addresses methods, apparatuses and
computer program products for improved compressed mode
operation for enhanced dedicated channel DCH in circuit
switched CS voice services/transmissions. A compressed
mode of a user equipment is configured during performing
a circuit switched voice service over a dedicated channel
according to Wideband Code-Division Multiple Access
operation upon demand for network specific measurement,
whereby measurement gaps are created in the data trans-
mission. In uplink, transmission of a voice frame to be
compressed is performed using a 10 ms transmission,
whereas in downlink, transmission of a voice frame to be
compressed is stopped after a fixed number of slots have
been transmitted, wherein the fixed number of slots is set
such as to ensure a measurement gap with at least 14 slots.

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(52) **U.S. Cl.**

CPC **H04W 24/10** (2013.01); **H04L 69/04**
(2013.01); **H04W 72/0406** (2013.01)

(58) **Field of Classification Search**

CPC combination set(s) only.

See application file for complete search history.

19 Claims, 12 Drawing Sheets

