

*Amended*

*Exhibit 8*

# Exhibit 8

## Claim 11 of U.S. Patent No. 10,831,111

US Patent No. 10,833,908: Claim 11(a)

"11. A method performed by a mobile station, the method comprising:"

11. A method performed by a mobile station, the method comprising:

VW's Accused Products include vehicles equipped with components and/or to 4G/LTE networks and services, including services sold and provided by VW

To the extent the preamble is considered a limitation, VW's Accused Products are covered by the '908 patent. *E.g.*,

The LTE specification (Series 36, Release 8) supports user equipment (UE) random access (RACH) procedure.

For clarity, release 8 of the 36 series 3GPP specifications was frozen in December 2009 and was used as the basis for the first wave of LTE equipment. The LTE market includes releases from Release 8 through Release 17. Though for ease of review releases 9 through 17 are not cited below, the same or functionally identical content exists in each corresponding release.

An LTE communication system provides access to multiple users (user equipment) through multiple cells associated with multiple eNodeBs.

#### 4 Overall architecture

The E-UTRAN consists of eNBs providing the E-UTRA user plane (PDCP/RLC/MAC/PHY) protocol terminations towards the UE. The eNBs are interconnected with each other by means of the X2 interface. eNBs are also connected by means of the S1 interface to the EPC (Evolved Packet Core), more specifically to the MME (Mobility Management Entity) by means of the S1-MME and to the Serving Gateway (S-GW) by means of the S1-U. The S1 interface supports a many-to-many relation between MMEs / Serving Gateways and eNBs.

The E-UTRAN architecture is illustrated in Figure 4 below.

US Patent No. 10,833,908: Claim 11(a)

"11. A method performed by a mobile station, the method comprising:"

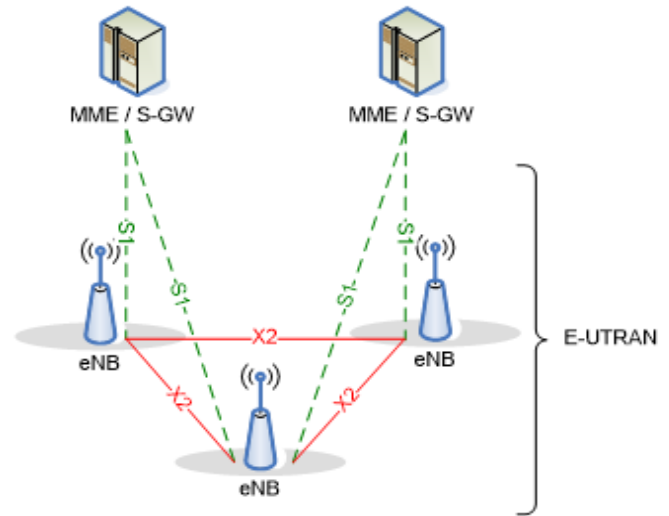


Figure 4-1: Overall Architecture

See e.g., 3GPP TS 36.300 V8.12.0 at pg. 15.

US Patent No. 10,833,908: Claim 11(b)

“transmitting, to the base station, an random access signal followed by a guard period in only a portion of the frequency band, wherein the random access signal includes a sequence associated with the base station,”

<p>transmitting, to a base station, a first uplink signal within a frequency band, wherein the first uplink signal is an orthogonal frequency division multiplexing (OFDM) signal and utilizes a frame format comprising a plurality of timeslots, each timeslot comprising a plurality of OFDM symbols;</p>	<p>VW’s Accused Products transmit, to a base station, a first uplink signal within a frequency band, wherein the first uplink signal is an OFDM signal and utilizes a frame format comprising a plurality of timeslots, each timeslot comprising a plurality of OFDM symbols. <i>E.g.</i>,  A frequency band used for LTE communication has an associated channel bandwidth. Downlink communication is transmitted between the UEs and the eNodeBs.</p>
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